

MINUTES OF THE 93RD MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 18TH, 19TH, 20TH, 21ST, 22ND, 23RD, 24TH, 25TH, 26TH and 27TH FEBRUARY, 2022

The 93rd meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th and 27th February, 2022 under the Chairmanship of Shri Ashok Kumar Singh, IFS (Retd.) in the Conference Room at SEAC, Ranchi.

The following members were present:

1. Shri Ashok Kumar Singh, IFS (Retd.) - Chairman
2. Dr. Kirti Avishek - Member
3. Shri Niranjana Lal Agarwalla - Member
4. Dr. Raju Kumar - Member
5. Dr. Ajay Govind Bhatt - Member
6. Shri Ashok Kumar Dubey, IFS - Secretary

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 20th, 21st, 22nd, and 23rd October, 2021. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information / clarifications in the earlier meeting of SEAC, were also considered for appraisal. The Project Proponents have been asked to make technical presentation for the appraisal of their projects before the committee.

The following observations / recommendations were made during the presentation (Project -wise), as under:-

Day 1 : February 18th, 2022 [Friday]

Consideration of Proposals

A. Matter referred by SEIAA :

- i. Corrigendum EC letter for Nand Vatika Greens of M/s Nand Vatika Developers Pvt. Ltd., Village : Bariatu, Tehsil : Bargain, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH /MIS/247349 /2021).

The PA's vide online application no. SIA/JH /MIS/247349 /2021 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2021-22/ 2459 /2021/198, dated 30.10.2021 with regard to the following :

Plot no. & Khata no. as mentioned in above EC letter :

Plot No.	4	8	27	37	50	56
Khata No.	834	840	837, 839	838	835, 841	836

The correct plot no. & Khata no. are as follows :

Khata No.	4	8	27	37	50	56
Plot No.	834	840	837,	838	835,	836

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			839		841	
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The SEAC recommends to issue the EC with corrected plot no. & khata no. as stated above and rest other terms & conditions mentioned in EC letter no. EC/SEIAA/2021-22/ 2459 /2021/198, dated 30.10.2021 shall remain the same.

- ii. Corrigendum EC letter for Belpahari Stone Mine of M/s Guru Stone Product, Mouza : Belpahari & Suraidih, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (7.34 Ha)

(Proposal No. : SIA/JH/ MIN/ 246152/2021).

The PA's vide online application no. SIA/JH/MIN/ 246152/2021 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2016-17/ 2022 /2017/196, dated 30.10.2021 with regard to the following :

Khata no. & Plot no. as mentioned in above EC letter :

Khata No.	25
Plot No.	138, 139

The correct plot no. & Khata no. are as follows :

Khata No.	25	02
Plot No.	138	139

The SEAC recommends to issue the EC with corrected khata no. & plot no. as stated above and rest other terms & conditions mentioned in EC letter no. EC/SEIAA/2016-17/ 2022 /2017/196, dated 30.10.2021 shall remain the same.

- iii. Corrigendum EC letter for Expansion of Existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to various Forgings 60000 TPA for M/s Ramkrishna Forings Limited – Plant 1 at Plot No.- M5 & M6 , 6th Phase, Adityapur Industrial Area, Gamharia, Dist. : Saraikela-Kharsawan, Jharkhand

(Proposal No : SIA/JH/IND/252291/2022)

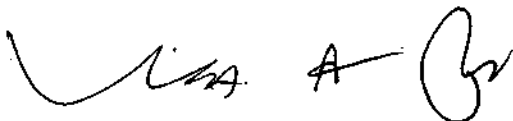
The PA's vide online application no. SIA/JH/IND/252291/2022 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2018-19/ 2083 /2018/710, dated 08.11.2019 with regard to EC condition no. vi & xv regarding water requirement.

The condition no. vi & xv mentioned in issued EC letter is as follows :

Condition no. vi mentions "As proposed, only propen gas will be used as fuel to reduce particulate emissions"

Condition no. xv mentions "Total water requirement from ground water source shall not exceed 495 m³ / day "

The correct EC condition no. vi & xv should be as follows :









Condition no. vi is to be mentioned "As proposed, only furnace oil and diesel will be used as fuel to reduce particulate emissions, which has already been mentioned in salient features of the issued EC".

Condition no. xv is to be mentioned " Total water requirement from ground water source shall not exceed 150 m³ / day which has already been mentioned in salient features of the issued EC "

The SEAC recommends to issue the EC with corrected ec condition no. vi & xv as stated above and rest other terms & conditions mentioned in EC letter no. EC/SEIAA/2018-19/ 2083 /2018/710, dated 08.11.2019 shall remain the same.

- iv. Serangdag Bauxite Mine with production capacity of Bauxite 1,00,000 TPA, Top Soil 15,350 TPA, OB 1,69,800 TPA & Mineral reject 40,000 TPA with installation of crusher 100 TPH, Screening & Washing of M/s Hindalco Industries Ltd., Village : Serangdag, Hanrup and Paurri, Taluka : Bishunpur & Ghaghra, Dist. : Gumla, Jharkhand (77.89 Ha).

(Proposal No. : SIA/JH/MIN/29237 /2018).

This proposal was taken by SEAC in 90th meeting held on dated 14-18.09.2021 and again in 92nd meeting held on dated 20, 21, 22 & 23.10.2021. In 92nd meeting after appraisal, SEAC gave its recommendation for granting of ToR.

SEIAA took the above proposal in 93rd meeting dated 26th, 27th & 28th October, 2021 and made some queries with reference to its 59th meeting regarding minimum distance criteria of 100 meter of lease from forest boundary. It is pertinent to mention here that then SEIAA in its 59th meeting MOM held on 09.08.2018 has taken a decision to keep a minimum distance criteria of 100 meter even for renewal of mines (existing mines) and other projects in the light of recommendation of then SEAC of 49th meeting.

For proper appraisal of this distance criteria issue, the present SEAC examined the minutes of 49th meeting of then SEAC and other relevant documents available in file of SEAC/SEIAA. On perusal of file and document it is apparent that then SEAC in its 49th meeting has analysed the issue but has not made recommendation of any new distance criteria in renewal project (existing project). Rather recommendation of then SEAC in its 49th meeting in last two para is as follows:-

"The members of the SEAC, Jharkhand are guided by the guidelines, rules & regulations issued by MoEF & CC published in Gazette as per EIA notification, 2006 and some decision related to environment by the Hon'ble Supreme Court of India.

In view of the above, the SEAC members are of the opinion that the earlier formulated guidelines be kept as such & no change is required".

The SEAC in its 49th meeting has also expressed their views that SEAC is a technical expert committee for screening, scoping, appraisal and to recommend EIA/EMP for different project based on existing rules and guidelines of MoEF & CC.

From records the present Committee also came to know that the then Member Secretary, SEAC has given a separate opinion on 17.10.2018 which has been kept in file. From perusal of the



opinion of the then Member Secretary, SEAC, it was also found that a wrong, false and misleading information and facts has been given in his write up, which are as follows:-

- i. In para 3 of write up, reference of presence and opinion of some invited expert such as Director General of Mines Safety, Dept. of Mines and Geology, JSPCB and Department of Forest, Environment & Climate Change, Govt. of Jharkhand has been given. But as a matter of fact neither any expert or invited members appeared in meeting nor gave their opinion on the issue.
- ii. In para 5 and 6, a reference of guidelines of JSPCB, State of Kerla, Jammu & Kashmir and Karnataka has been given regarding distance criteria. But this fact is misleading. As a fact distance criteria is for new project and nor for existing project. (i.e. renewal of project)
- iii. In para 10, then Member Secretary, SEAC has opined i.e. "Members have unanimously arrived at the conclusion that minimum distance of notified forest (RF/PF) for new project should be 250 meter and for renewal of the legally existing project may be kept as 100 meter from the said project site, so that the irreversible damage may not be caused to the forest, environment and wildlife dwelling within, due to mining & other industrial activities.

Besides, the minimum distance as proposed above, it would be expedient to enhance the said limit depending upon the severity of pollution caused by the highly polluting industries.

But as a fact in 49th meeting SEAC has not given above mentioned conclusion but final recommendation of SEAC in its 49th meeting dt. 16-17 October, 2018 is, that no change is required.

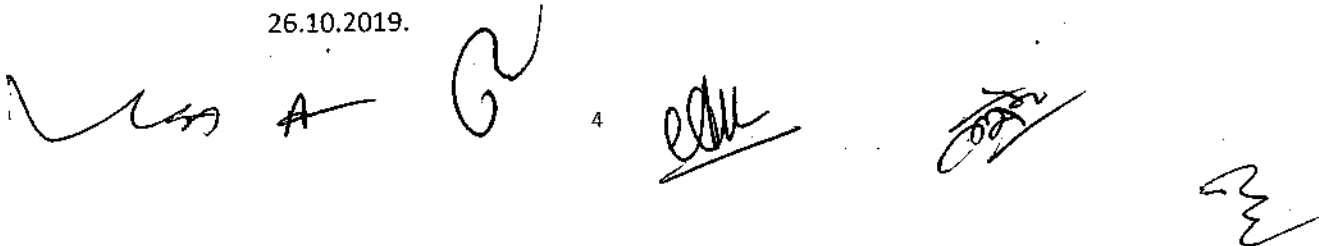
- iv. In para 7 (ii) of then SEAC Member Secretary write up the fact regarding distance criteria is wrong and misleading. From perusal of records dated 07.05.2013 it is evident that distance criteria has been given only for new mines and that too is for minor mineral and there is no recommendation in renewal matter. Secondly, opinion of Member secretary can not be taken as the opinion of SEAC, but it is his individual opinion, which can not be taken as recommendation of SEAC.
- v. This Committee is bound to follow the EIA notification 2006, guidelines of MoEF & CC and directions given by apex Court or any competent Court of law. But example of other states, if any, can not be taken as direction or necessary guideline for this committee.
- vi. The committee again reiterates its recommendation of 92nd meeting to issue ToR to Serangdag Bauxite Mines.

B. Consideration of Proposals :

1. **Belpahari Stone Mine of M/s Maa Durga Stone Works, Mouza : Belpahari & Beldiha, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (12.15 Ha).**

(Proposal No. : SIA/JH/MIN/ 190783/ 2020).

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 78th meeting held on 18-20.09.2019 and SEIAA, Jharkhand has approved the ToRs in 80th meeting held on 25th September, 2019. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 579, date 26.10.2019.

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The final EIA / EMP submitted by PP to SEIAA on 27.09.2021 and which was forwarded to SEAC on 29.09.2021.

EC Application for: Boulder Stone :130,485 Cu.M. / year i.e. 3,78,408 TPA
Mobile Crusher

Name of the consultant: POLLUTION & ECOLOGY CONTROL SERVICES (PECS), NAGPUR

This is a new project which has been taken for appraisal on 18.02.2022

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: M/s Maa Durga Stone Works
2	Lessee:	: Sri Soumitro Ghosh
3	Lease Address	: Mouza : Belpahari & Beldiha, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand
4	Lease Area	: Ha: 12.15ha. Acres: 30.02 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Rs. 98 Lakhs
7	EMP Budget	: Capital: 4,28,000Lakhs/year Recurring: 2,83,000Lakh / year
8	CSR / CER Budget	: Rs. 2,20,000 Lakhs/year
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 3012357 Tonnes: 8735835
11	Mine Life	: 23.33years
12	Man power	: 49 persons
13	Water Requirement	: 9.98 KLD (Drinking : 0.980 KLD, Dust Suppression : 4.00 KLD, Plantation : 5.00 KLD)
14	Water Source	: Mine pit Water, tanker from abandoned mine pits and Bore-well water for domestic use
17	Nearest Water Body	: Torai Nadi at a distance of 3.2 Km
18	Nearest Habitation	: Ghagharjani village, 2.2 km
19	Nearest Rail Station	: Pakur Railway Station – 22 km (NW)
20	Nearest Air Port	: Netaji Subhash Chandra Boss Airport, Kolkata – 250.00 km (SE)
21	Nearest Forest	: NIL
22	Road &	: NH-34 –Approx. 16.2km (NE)

MA. A. P. 5. [Signatures]

Highways		
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CO-ORDINATES :

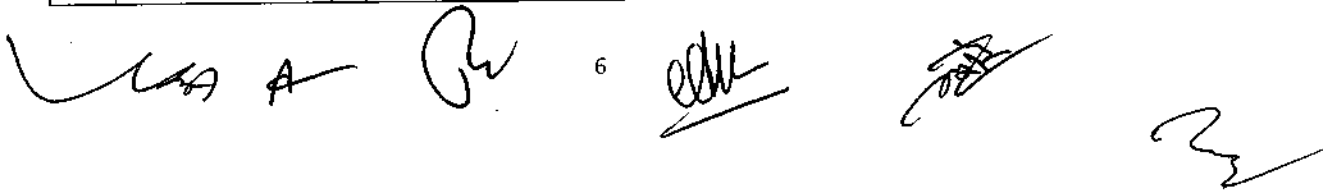
1	Latitude	From 24°42'04.78"N	To 24°42'21.59"N
2	Longitude	From 87°44'45.51"E	To 87°45'03.25"E

LAND DETAILS :

Sl. No.	Mouza	Khata no.	Plot no.
1	Belpahari & Beldiha	18	123
2		56	124
3		27	131,132,133,134,136,722,723,724
4		25	135
5		07	137
6		30	138,139,140
7		59	141
8		32	676,679
9		17	677,682
10		02	678,680,681
11		13	683,684,685,686
12		05	691
13		06	692,693,694,695
14		03	696,697
15		24	698,699,720,721

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 2791/M dated 29.12.2018.
2	CO	:	The CO, Hiranpur vide memo no. 581, dated 12.11.2018 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatyan.
3	DMO	:	DMO, Pakur vide memo no. 1168/M, dated 19.05.2017 certified that the 01 lease (6.08 Acre) exists within 500 m radius and total lease area is 14.609 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribag vide letter no. 1392, dated 20.07.2019 certified that the Udhwa Lake Bird Sanctuary is 29,930 m from project site and not within 10 km from National Park, Bio-Diversity area & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest	:	DFO, Pakur Division vide letter no. 1198, dated 01.08.2016 certified



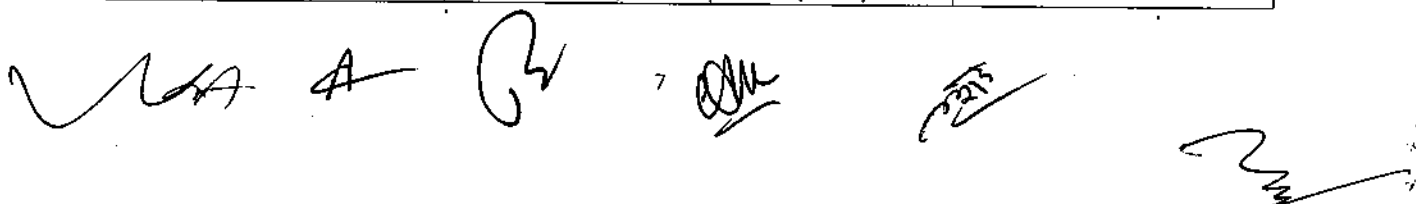
	Distance	that the distance of notified forest is more than 250 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Pakur vide letter no. 1412/M, dated 12.08.21 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 02.07.2016
8	Mine Plan Approval	: Memo No. 212, Dated- 26.04.2017
9	Public Hearing	Public Hearing of the project was conducted on 13.10.2020.

Working Details :

1	Mining Method	: Semi - Mechanized Open Cast Mining, Drilling & Blasting to be used		
2	Quarry Area	: 5 years – 7.48ha	Life of Mine – 7.48ha	
3	Waste Generation	: 5 years– 54564 Cu.M	Life of Mine – 54564 Cu.M	
4	Stripping Ratio	: 1:0.01		
5	Working Days	: 300 days		
6	Benches: size & No	: 5m x 5m		
7	Elevation of Mine	: 82 AMSL		
8	Ground Level Elevation	73 to 82 AMSL		
9	Ultimate Working Depth	: 30 AMSL		
10	Water Table	: 25 AMSL		
11	Topography of Mine	: Flats and elevated with undulation		
12	Explosive Requirement	: 2.108Tons/Month		
13	Diesel/Fuel requirement	: JCB - 2	60 Lts. (Approx.)	For 8 Hrs.
		Compressor- 02	60 Lts. (Approx.)	Per Day
		Tractor sprinkle 01	50 Lts. (Approx.)	For 4 Hrs.
		Tipper - 06	150 Lts. (Apprx.)	For 8 Hrs
		Hydraulic Tractor- 06	200 Lts. (Apprx.)	For 8 Hrs..
	TOTAL	520 Lts.		

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (Cum)	Bench RL in Meters
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1 st	111863	324402	14044	62m-67m
2 nd	117233	339977	10122	62m-57m
3 rd	129902	376714	11537	57m-52m
4 th	130297	377862	9328	52m-47m
5 th	130486	378408	9533	52m-47m
Total	619781	1797363	54564	

Land Use :

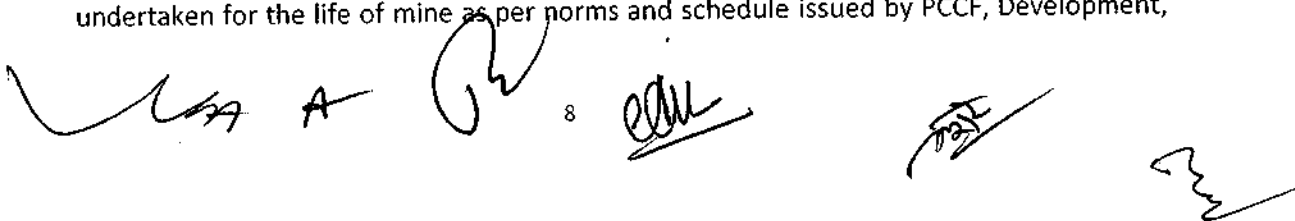
SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Quarry	0.00	3.14	7.48(water reservoir)	10.623(3.143 ha area shall be backfilled & 7.480 ha area shall be left as water reservoir)
2	Road	0.18	0.18	0.002	0.002
3	Waste Dump	0.00	1.365	3.143(backfilled)	Nil (waste dump to be removed and backfilled)
4	Safety Zone	0.00	1.525	1.525	Nil (to be removed)
5	Infrastructure	0.002	0.202	0.00	1.525
6	Unutilized	11.97	5.738	0.00	0.00
	TOTAL	12.15	12.15	12.15	12.15

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	4.00ha	1300 trees/ 260 sapling every year
2	Other Reclaimed Area	NIL	
3	Haul /Approach Road	Haul Road Length is 482 m	321 plants (161 plants on both side at the interval of 3 m)

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development,



Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

There will be no solid waste generation.

Water Quality Management

- The working at the end of 5 years of the plan period will not intercept the water table.
- In the applied mining lease area the flow of water is very low.
- The major portion of the area comprises of gently sloping surrounded with peripheral slope all along, there will be no problem of water drainage.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in a garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission.
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask etc shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.



- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission should be taken from competent authority.

This proposal was earlier considered in 92nd meeting of SEAC held during 20-23.10.2021 in which PAs were asked to submit a consolidated ToR compliance report.

PAs has submitted the consolidated ToR compliance report.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Belpahari Stone Mine of M/s Maa Durga Stone Works, Mouza : Belpahari & Beldiha, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (12.15 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

Day 2 : February 19, 2022 [Saturday]

Consideration of Proposals

- 1. Utopian Heights Ranchi of M/s Akshat Housing Developers Pvt. Ltd., Village : Pundag, Tehsil : Nagri, Dist. : Ranchi, Jharkhand.
(Proposal No. : SIA/JH/ MIS/241110 /2021).**

Name of the consultant : Crystal Consultants, Ranchi

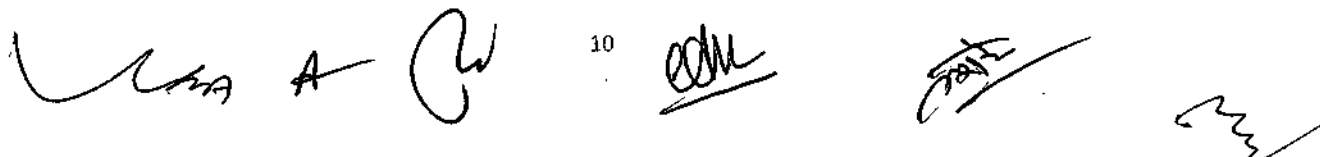
This is a new project which has been taken for appraisal on 19.02.2022.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

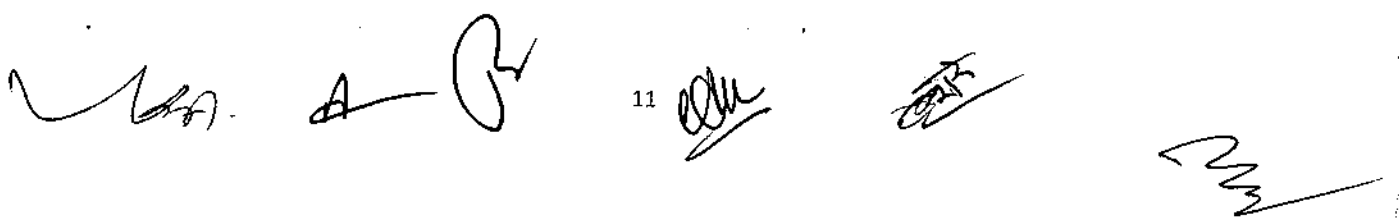
Salient Features of the Project :

PARTICULAR	DETAILS		
Project Name	Utopian Heights Ranchi		
Proponent	Akshat Housing Developers Pvt. Ltd.		
Type of Building	Residential Building		
Latitude	23°21'3.61" N		
Longitude	85°16'37.92" E		
Plot No.	1264, 1269	1292	1270, 1271, 1272

10



Khata No.	96	146	147
Mauza	Pundag		
Tehsil	Nagri		
District	Ranchi		
State	Jharkhand		
Plot Area	Total Plot Area as per sale deed is 8330.60 m ² Net Plot Area 6497.05 m² after deduction of common area		
Plantation	1215.8 m ² (18.71 % of Available Plot Area)		
Permissible Ground Coverage	3248.52 m ² (50%)		
Consumed Ground Coverage	2280.31 m ² (35.10%)		
Permissible FAR	3.50		
Consumed FAR	3.48		
No. of Building Block	5 building blocks as follows : 4 Residential Building Block <ul style="list-style-type: none"> • Block A • Block B • Block C • Block D 1 Community Building Block		
Total Built-Up Area	Total Built- Up Area: 42,245.56m ²		
No. of Floor	Block A: G+15 Block B: G+16 Block C: G+15 Block D: G+13 Community Hall: G+2		
Height	Block A: 48 m Block B: 51 m Block C: 48 m Block D: 42 m Community Hall: 10.35 m <i><u>NOTE: Height from Street Level</u></i>		
Building Configuration	Total Dwelling Units: 271 1 BHK: 36 2 BHK: 50 3 BHK: 155 4 BHK: 30		
Population	1687		
Parking	4 Wheelers: 235 2 Wheelers: 264 Visitors Car Parking: 24 Total Area Provided for Parking: 9227.68 m²		



Municipal Solid Waste	Total Municipal Solid Waste = 1012.20 Kg Bio-Degradable = 404.88 Kg Non-Biodegradable = 607.32 Kg
Power Requirement	2500 KVA (2 X 1250 KVA TRANSFORMER) Source : Jharkhand State Electricity Board
Power Back-up	165 KVA (2 X 82.5 KVA DG Sets)
Renewal Energy	Solar - 400 KVA (16 % of total power requirement)
RWH Pits	3 Pits
Total Water Demand	309.73 KLD
Waste Water quantity	197.38 KLD
Capacity of STP	220 KLD
Total Treated Water from STP	157.90 KLD
Project Cost	Rs. 63,63,87,116.00



STATUTORY CLEARANCE

- Building Plan Approved by Ranchi Municipal Corporation vide Memo No. RMC/AH/1303/W36/2020, Date 29/09/2021.
- Airport Authority of India issued a height clearance NOC vide its NOC ID –RANC/EAST/B/121620/516803, dated 04/01/2021.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. – 2799/Tech./2020, dated 18/12/2020.
- The DFO, Wildlife Ranchi Vide Memo No. 275 Dated 18/03/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Ranchi Division vide Letter No. 260 Dated 22/01/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Nagri vide Letter No. 1057 (ii) Dated 04/10/2021 has mentioned plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyani & Register II.

During the presentation the following documents were sought :

- a) Undertaking :
 - i. No ground water will be used during construction phase.
 - ii. If, ground water is required during operational phase, permission will be taken from competent authority.
- b) Affidavit for no construction has been started.
- c) Sludge management plan.
- d) Description of design and architecture related to energy conservation.
- e) Revised site plan clearly showing the proposed green area, STP and RWH location .

The PAs have submitted the above required undertaking and documents.







Based on the presentation made and information provided, the Committee decided that the proposal for Utopian Heights Ranchi of M/s Akshat Housing Developers Pvt. Ltd., Village : Pundag, Tehsil : Nagri, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith the following specific conditions :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
 - II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
 - III. All raw material to be stored only under covered shed.
 - IV. PAs to ensure ZERO DISCHARGE for its process discharges.
 - V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
 - VI. Green belt and Green cover to be implemented as provided in layout plan.
2. **Pyroxenite Mine of Sri Deepak Kumar Singh, Mouza : Jhagarsai, Thana : Potka, Dist. : East Singhbhum, Jharkhand (3.54 Ha).**

(Proposal No. : SIA/JH/MIN/224197 /2021).

Project Category: B2 – Application for Environment Clearance
EC Application for: Boulder Stone : 49574 Cu.M. / year i.e. 157151 TPA
Waste : 55933 Cu.M. / year
DG Set : 0.0 KVA
Mobile Crusher

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 19.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Pyroxenite Mine of Jhagarsai
2	Lessee:	: Deepak Kumar Singh
3	Lease Address	: E-131, Sonari East, Jamshedpur East.
4	Lease Area	: 3.54 Ha. 8.75 Acres
5	Type of Land	: Tenancy Land
6	Project Cost	: 90.00 Lakhs
7	EMP Budget	: Capital:11.00 Lakhs Recurring: 2.50 Lakh / year
8	CSR / CER Budget	: Rs. 1.00 Lakhs

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9	New or Expansion	:	NEW
10	Mineable Reserves	:	Cu.M.: 198179.87 Cu. M. Tonnes: 628230 Tonnes
11	Mine Life	:	5 Years
12	Man power	:	37
13	Water Requirement	:	17.00 KLD (Drinking: 2.00 KLD, Dust Suppression: 10.00 KLD, Plantation: 5.00 KLD)
14	Water Source	:	Tanker
15	DG Set / power	:	Not Applicable
16	Crusher	:	No
17	Nearest Water Body	:	Dhutra Nadi: 1.0 km towards East Gudra Nadi: 1.2 km towards North Kudal Nala: 1.5 km towards West
18	Nearest Habitation	:	Potka Village
19	Nearest Rail Station	:	Haldipokhar (10Km)
20	Nearest Air Port	:	Sonari (25 Km)
21	Nearest Forest	:	None
22	Road & Highways	:	Haldipokhar Railway Station (10 KM)

CO-ORDINATES :

1	Latitude	From 22°35'55.00" N	To 22°36'04.41" N
2	Longitude	From 86°14'26.80" E	To 86°14'43.60" E

LAND DETAILS :

Khata No.	Plot No.
9	317
17	217
	217/671
47	315
	316
56	297
71	312
	313
	314
75	218
101	322
122	442
125	209
	209/669
126	210
127	203
141	201
	208

W A

Q

CDM

CDM

CDM

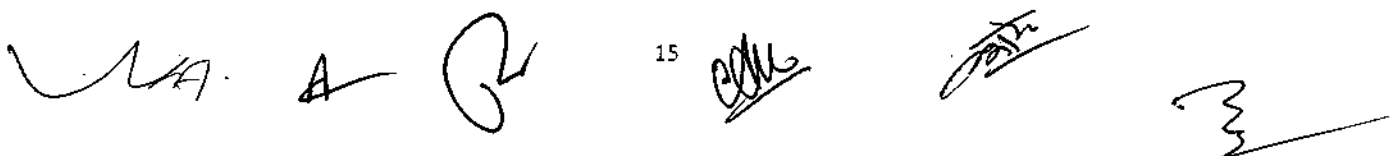
	214
	216
	259
	303
	311
	325
	441
	670

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Lease Document dated 26/05/2003
2	CO	:	The CO, Potka vide letter no. 679, dated 03.10.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide memo no. 1141/M, dated 08.09.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1598, dated 11.10.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 2995, dated 22.11.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project's name is mentioned in District Survey report (DSR) East Singhbhum.
7	Gram Sabha	:	Letter No.-194 dated 20.02.2018
8	Mine Plan Approval	:	Letter No. 268/DDM, dated 05.08.2019

Working Details :

1	Mining Method	:	Opencast Semi-Mechanised Mining Method
2	Quarry Area	:	5 years – 2.57 Ha. Life of Mine – 2.57 Ha.
3	Waste Generation	:	5 years– 55933 Cu.M Life of Mine – 55933 Cu.M
4	Stripping Ratio	:	1:0
5	Working Days	:	300
6	Benches: size & No	:	6 X 6 & 4 numbers
7	Elevation of Mine	:	159 AMSL


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8	Ground Level Elevation	:	160 AMSL
9	Ultimate Working Depth	:	135 AMSL
10	Water Table	:	129 AMSL and also bgl
11	Topography of Mine	:	Rolling
12	Explosive Requirement	:	66.66 Kg / day
13	Diesel/Fuel requirement	:	350 Litres/day

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Meters
1 st	41313	130964	13034	159
2 nd	49574	157151	12394	153
3 rd	49540	157072	13337	147
4 th	49569	157136	13577	141
5 th	28159	25865	2691	135
Total	218155	628188	55033	

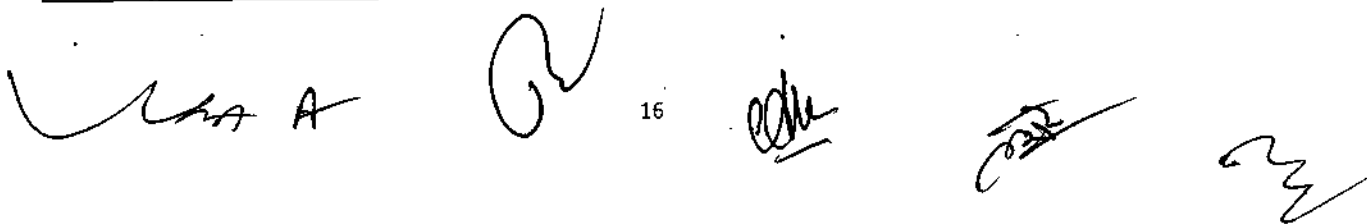
Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.01	2.57	2.57	2.57	2.57
2	Office /Store	--	--	--	--	--
3	Crusher	--	--	--	--	--
4	Road	0.11	0.11	0.11	0.11	0.11
5	Garland Drain	--	--	--	--	--
6	Safety Zone	--	0.86	0.86	0.86	0.86
7	Settling Tank	--	--	--	--	--
8	Unutilized	3.42	--	--	--	--
	TOTAL	3.54	3.54	3.54	3.54	3.54

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.85	300
2	Other Reclaimed Area	0.00	0.00



3	Haul /Approach Road	:	0.11	190
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- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

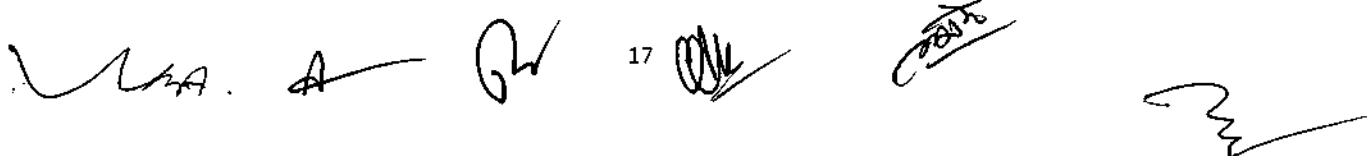
- Waste Generation will be 55933 Cu.M. during the life of Mine. Dump area proposed for waste storage is 0.0 ha. The Waste shall be handled as detailed below:

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done


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- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Pyroxenite Mine of Sri Deepak Kumar Singh, Mouza : Jhagarsai, Thana : Potka, Dist. : East Singhbhum, Jharkhand (3.54 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

3. Mundli Stone Mine of Sri Rajesh Kumar Jaiswal, Village : Mundli, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (2.633 Ha).

(Proposal No. : SIA/JH/MIN/250838 /2022).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone: 47,256 Cu.M./ year i.e. 1,27,591 TPA

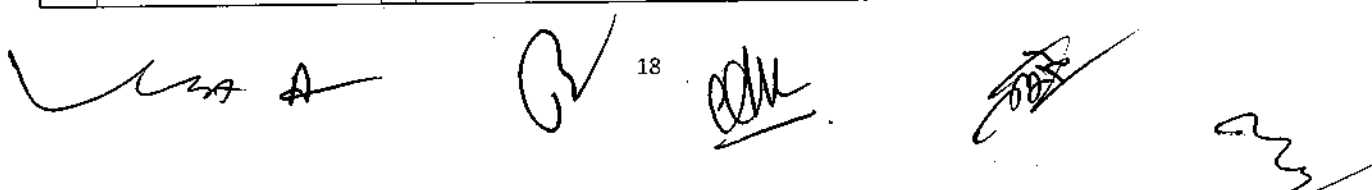
Name of the consultant: Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 19.02.2022

PROJECT AND LOCATION DETAILS:

Sl	Parameter	Details
1	Project Name	: Mundli Stone Mine
2	Lessee:	: Sri Rajesh Kumar Jaiswal
3	Lease Address	: Mouza – Mundli, Thana – Mirzachouki District – Sahibganj, State – Jharkhand.

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4	Lease Area	:	Ha: 2.633 ha.	Acres: 6.50 Ac.
5	Type of Land	:	Non Forest – Rayati Land	
6	Project Cost	:	99.80 Lakhs	
7	EMP Budget	:	Capital: 8.00 Lakhs	Recurring: 4.00 Lakh / year
8	CSR / CER Budget	:	Rs. 1.80 Lakhs	
9	New or Expansion	:	New Project	
10	Mineable Reserves	:	Cu.M.: 4,89,434	Tonnes: 13,21,472 Tonnes
11	Mine Life	:	10 years	
12	Man power	:	30	
13	Water Requirement	:	13 KLD (Drinking: 01 KLD, Dust Suppression: 10 KLD, Plantation: 02 KLD)	
14	Water Source	:	Dug well for drinking & River water for dust suppression/ green belt	
15	DG Set / power	:	Not required	
16	Crusher	:	Not within mine lease area	
17	Nearest Water Body	:	Ganga River 12 KM	
18	Nearest Habitation	:	Mahadeobaran Village: 2.00 KM; Mirzachouki: 3.00 KM	
19	Nearest Rail Station	:	Mirzachouki - 3.00 KM	
20	Nearest Air Port	:	Kolkata – 325 KM, Ranchi - 325 KM (Approx.)	
21	Nearest Forest	:	Not within 250m	
22	Road & Highways	:	Sahibganj – Kahalgaon Road is about 2.00 KM	

CO-ORDINATES

1	Latitude		From 25° 14' 26.48" N	To 25° 14' 30.97" N
2	Longitude		From 87° 29' 37.01" E	To 87° 29' 51.38" E

LAND DETAILS :

1.	Mouza Mundli	Khata No.	Plot No.
		05	53 (P) 57 (P)
		18	54 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	LoI has been issued by District Mining Office, Sahibganj, vide letter no. 966/M dated 23.09.2021.
2	CO	:	The CO, Mandro vide memo no. 32, dated 11.01.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Sahibganj vide letter no. 978/M, dated 25.09.2021 certified that there is no other mining lease exist within 500 m radius from

		proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh Division vide letter no. 1935, dated 10.11.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Sahibganj vide letter no. 341, dated 20.02.2015 certified that the distance of notified forest is 400 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Sahibganj issued letter regarding DSR vide letter no. 1156/M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) of Sahibganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Issued NOC on vide memo no. Nil dated 06.01.2020
8	Mine Plan Approval	: Letter No. 1189/M, Sahibganj dated 09.12.2021

Working Details :

1	Mining Method	: Opencast Mechanized.
2	Quarry Area	: 1.943 ha.
3	Waste Generation	: 53933 m ³
4	Stripping Ratio	: 0.11 (overall stripping ratio)
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m and 5 benches.
7	Elevation of Mine	: 210m AMSL
8	Ground Level Elevation	: 62m AMSL
9	Ultimate Working Depth	: 171 m AMSL
10	Water Table	: 57 m AMSL
11	Topography of Mine	: Dips from South to North
12	Explosive Requirement	: 12,759 kg/year
13	Diesel/Fuel requirement	: NA (as DG set not required)

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench AMSL in Meters
1 st	47,245	1,27,562	53,933	207 – 189
2 nd	47,245	1,27,562	-	195 – 189
3 rd	47,256	1,27,591	-	195 – 183
4 th	47,234	1,27,532	-	195 – 183

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5 th	47,256	1,27,591	-	195 - 183
Total	2,36,236	6,37,838	53,933	

Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.500	1.943	Water Body
2	Dump	0.00	0.340	0.000	-
3	Office /Store	0.00	0.000	0.000	-
4	Crusher	0.00	0.000	0.000	-
5	Road	0.00	0.010	0.010	Green Belt
6	Safety Zone	0.00	0.630	0.630	Green Belt
7	Unutilized	2.633	0.153	0.050	Green Belt
	TOTAL	2.633	2.633	2.633	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.63 ha	650 trees
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.05 km	50 trees

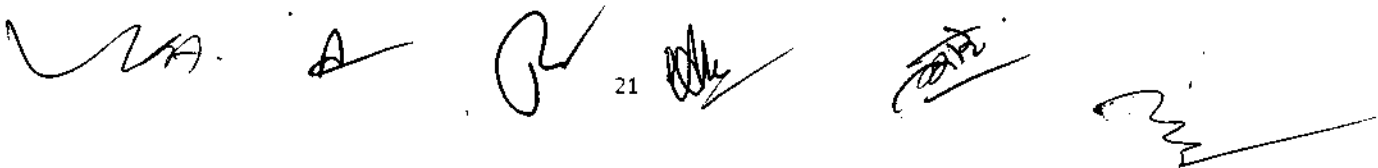
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- There is no waste to be generated.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after


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settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.

- Garland drain shall be made in the outer part of safety barrier and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- Domestic waste water will not be generated.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Mundli Stone Mine of Sri Rajesh Kumar Jaiswal, Village : Mundli, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (2.633 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

4. Gilamari Stone Mine of M/s Nirmala Stone Works, Village : Gilamari, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (2.896 Ha).

(Proposal No. : SIA/JH/MIN /250232 /2022).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone: 45,592 Cu.M./ year i.e. 1,23,098 TPA

Name of the consultant: Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 19.02.2022

PROJECT AND LOCATION DETAILS:

Sl	Parameter	Details
1	Project Name	: Gilamari Stone Mine
2	Lessee:	: Sri Akshay Kumar Aryan- Proprietor (M/s Nirmala Stone Works)
3	Lease Address	: Mouza – Gilamari, Thana – Mirzachouki District – Sahibganj, State – Jharkhand.
4	Lease Area	: Ha: 2.896 ha. Acres: 7.15 Ac.
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 84.50 Lakhs
7	EMP Budget	: Capital: 8.00 Lakhs Recurring: 4.00 Lakh / year
8	CSR / CER Budget	: Rs. 1.50 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 7,90,122 Tonnes: 21,33,329 Tonnes
11	Mine Life	: 17 years
12	Man power	: 26.
13	Water Requirement	: 11 KLD (Drinking: 01 KLD, Dust Suppression: 08 KLD, Plantation: 02 KLD)
14	Water Source	: Dug well for drinking & River water for dust suppression/ green belt
15	DG Set / power	: Not required
16	Crusher	: Not within mine lease area
17	Nearest Water Body	: Ganga River 12 KM
18	Nearest Habitation	: Mirzachouki Village: 4.00 KM;
19	Nearest Rail Station	: Karamtola - 4.00 KM
20	Nearest Air Port	: Kolkata – 325 KM, (Approx.)
21	Nearest Forest	: Not within 250m

22	Road & Highways	:	Sahibganj – Mirzachouki Road is about 4.00 KM
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CO-ORDINATES :

1	Latitude		From 25° 13' 29.39" N	To 25° 13' 38.87" N
2	Longitude		From 87° 31' 48.35" E	To 87° 31' 54.98" E

LAND DETAILS :

1.	Mouza Gilamari	Khata No. 14	Plot No. 400 (P), 408 & 409 (P)
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STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Loi has been issued by District Mining Office, Sahibganj, vide letter no. 1392/M dated 09.10.2019.
2	CO	:	The CO, Mandro vide memo no. 473 dated 26.11.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan.
3	DMO	:	DMO, Sahibganj vide memo no. 1660/M, dated 04.12.2019 certified that there is no other mining lease exist within 500 m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife, Hazaribagh Division vide letter no. 1214, dated 26.07.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Sahibganj vide memo no. 913 dated 18.05.2018 certified that the distance of notified forest is 255 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Sahibganj issued letter regarding DSR vide letter no. 1154/M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) of Sahibganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Issued NOC on vide memo no. Nil dated 20.03.2018

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8	Mine Plan Approval	: Letter No. 820/M, Sahibganj dated 05.08.2021
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Working Details :

1	Mining Method	: Opencast Mechanized.
2	Quarry Area	: 2.093 ha.
3	Waste Generation	: 51,153 m ³
4	Stripping Ratio	: 0.224
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m and 7 benches.
7	Elevation of Mine	: 240m AMSL
8	Ground Level Elevation	: 52m AMSL
9	Ultimate Working Depth	: 196 m AMSL
10	Water Table	: 46 m AMSL
11	Topography of Mine	: Dips from South to North
12	Explosive Requirement	: 12,759 kg/year
13	Diesel/Fuel requirement	: NA (as DG set not required)

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench AMSL in Meters
1 st	45,557	1,23,004	28,427	238 – 232
2 nd	45,557	1,23,004	-	232 – 226
3 rd	45,579	1,23,063	22,726	232 – 226
4 th	45,592	1,23,098	-	226 – 220
5 th	45,592	1,23,098	-	226 - 220
Total	2,27,877	6,15,267	51,153	

Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Conceptual Period (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.209	2.093	Water Body
2	Dump	0.00	0.300	0.000	-
3	Office /Store	0.00	0.000	0.000	-
4	Crusher	0.00	0.000	0.000	-
5	Road	0.00	0.020	0.010	-
6	Safety Zone	0.00	0.560	0.560	Green Belt
7	Unutilized	2.896	0.807	0.233	Water Body
	TOTAL	2.896	2.896	2.896	

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ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No. of Trees
1	Safety Zone	:	0.56 ha	600 trees
2	Other Reclaimed Area	:	NIL	NIL
3	Haul /Approach Road	:	0.10 km	100 trees

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- There is no waste to be generated.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made in the outer part of safety barrier and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- Domestic waste water will not be generated.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Gilamari Stone Mine of M/s Nirmala Stone Works, Village : Gilamari, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (2.896 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.



5. Jamua Stone Mine of M/s Gautam Enterprises, Village : Jamua (Vishunpur), Tehsil : Chhatarpur, Dist. : Palamu, Jharkhand (2.835 Ha).

(Proposal No. : SIA/JH/MIN /249578 /2022).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone: 1,11,135 Cu.M./ year i.e. 3,00,065 TPA

Name of the consultant: Crystal Consultants, Ranchi

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This is a new project which has been taken for appraisal on 19.02.2022

PROJECT AND LOCATION DETAILS:

Sl	Parameter	Details
1	Project Name	: Jamua (Vishunpur) Stone Mine
2	Lessee:	: M/s Gautam Enterprises, (Proprietor: Shri Rajesh Kumar Singh)
3	Lease Address	: Mouza – Jamua, Thana – Naudiha Bazar, District – Palamu, State – Jharkhand.
4	Lease Area	: Ha: 2.835 ha. Acres: 7.00 Ac.
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 89.60 Lakhs
7	EMP Budget	: Capital: 8.00 Lakhs Recurring: 4.00 Lakh / year
8	CSR / CER Budget	: Rs. 1.60 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 6,94,002 Cu. M. Tonnes: 18,73,805 Tonnes
11	Mine Life	: 06 years
12	Man power	: 43
13	Water Requirement	: 13 KLD (Drinking: 1.5 KLD, Dust Suppression: 10 KLD, Plantation: 1.5 KLD)
14	Water Source	: Dug well for drinking & River water for dust suppression/ green belt
15	DG Set / power	: Not required
16	Crusher	: Not within mine lease area
17	Nearest Water Body	: Jhonk River 0.80 KM
18	Nearest Habitation	: Vishunpur Village: 0.80 KM; Naudiha: 3.00 KM
19	Nearest Rail Station	: Japla - 40.00 KM
20	Nearest Air Port	: Ranchi - 225 KM
21	Nearest Forest	: Not within 250m
22	Road & Highways	: Naudiha – Pachmo Road – 2.00 KM, NH 139 – 10 KM.

CO-ORDINATES :

1	Latitude	From 24° 24' 37.66" N	To 24° 24' 43.06" N
2	Longitude	From 84° 18' 55.74" E	To 84° 19' 04.52" E

LAND DETAILS :

1.	Mouza	Khata No.	Plot No.
	Jamua (Vishunpur)	16	68 (P) & 74
		76	75 (P) & 76 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	: LOI has been issued by District Mining Office, Palamu vide letter no. 1125/M dated 23.09.2021.
2	CO	: CO, Naudiha Bazar, Palamu vide letter no. 276, dated 01.09.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	: DMO, Palamu vide letter no. 1173/M, dated 06.10.2021 certified that no other mining lease exists within 500 m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	: Deputy Director, Palamu Tiger Project, North Division, Medininagar vide letter no. 950, dated 18.10.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Medininagar vide letter no. 1634, dated 03.04.2018 certified that the distance of notified forest is 255 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Palamu vide letter no. 1776, dated 16.10.2021 has informed that this project is part of District Survey Report (DSR) of Palamu district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Issued NOC on vide memo no. Nil dated 11.12.2017
8	Mine Plan Approval	: Letter No. 761/G, Hazaribagh dated 16.11.2021

Working Details :

1	Mining Method	: Opencast Mechanized.
2	Quarry Area	: Plan period – 1.612 ha
3	Waste Generation	: Plan period – 39,938 m ³
4	Stripping Ratio	: 0.0718
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m and 6 benches.
7	Elevation of Mine	: 238m AMSL
8	Ground Level Elevation	: 220m AMSL
9	Ultimate Working Depth	: 206 m AMSL
10	Water Table	: 204 m AMSL
11	Topography of Mine	: Mild slope from South to North
12	Explosive Requirement	: 30,006 kg/year

13	Diesel/Fuel requirement	:	NA (as DG set not required)
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Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench AMSL in Meters
1 st	1,11,132	3,00,056	20,244	236 - 218
2 nd	1,11,128	3,00,046	19,694	236 - 218
3 rd	1,11,126	3,00,040	-	224 - 212
4 th	1,11,135	3,00,065	-	218 - 206
5 th	1,11,127	3,00,043	-	212 - 206
Total	5,55,648	15,00,250	39,938	

Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.612	2.305	Water Body
2	Office /Store	0.00	0.000	0.000	-
3	OB/ Waste dump	0.00	0.280	0.000	-
4	Road	0.00	0.020	0.010	-
5	Safety Zone	0.00	0.520	0.520	Green Belt
6	Unutilized	2.835	0.403	0.000	-
	TOTAL	2.835	2.835	2.835	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No. of Trees
1	Safety Zone	: 0.520 ha	550 trees
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.15 km	150 trees

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment &

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Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- There is no waste to be generated.

Water Quality Management

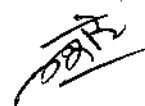
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made in the outer part of safety barrier and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- Domestic waste water will not be generated.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.



- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Jamua Stone Mine of M/s Gautam Enterprises, Village : Jamua (Vishunpur), Tehsil : Chhatarpur, Dist. : Palamu, Jharkhand (2.835 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Chaprakocha Stone Mine of M/s S.S. Mining (Partner : Sri Manoj Kumar Singhania), Village : Chaprakocha, Tehsil : Ormanjhi, Dist. : Ranchi, Jharkhand (1.823 Ha).

(Proposal No. : SIA/JH/MIN /237496 /2021).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone: 66720 Cu.M./ year i.e. 1,80,144 TPA

Name of the consultant: Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 19.02.2022

PROJECT AND LOCATION DETAILS:

S.No.	Parameter	Details	
1	Project Name	: Chaprakocha Stone Mine	
2	Lessee:	: M/s S. S. Mining, (Partner: Sri Manoj Kumar Singhania)	
3	Lease Address	: Mouza – Chaprakocha, Thana – Ormanjhi District – Ranchi, State – Jharkhand.	
4	Lease Area	: Ha: 1.823 ha.	Acres: 4.50 Ac.
5	Type of Land	: Non Forest – Rayati Land	
6	Project Cost	: 89.60 Lakhs	
7	EMP Budget	: Capital: 8.00 Lakhs	Recurring: 4.00 Lakh / year
8	CSR / CER Budget	: Rs. 1.60 Lakhs	
9	New or Expansion	: New Project	
10	Mineable Reserves	: Cu. M.: 3,43,680	Tonnes: 9,27,936 Tonnes

11	Mine Life	:	5 years
12	Man power	:	35
13	Water Requirement	:	10.50 KLD (Drinking: 1.0 KLD, Dust Suppression: 8.0 KLD, Plantation: 1.50 KLD)
14	Water Source	:	Dug well for drinking & River water for dust suppression/ green belt
15	DG Set / power	:	Not required
16	Crusher	:	Not within mine lease area
17	Nearest Water Body	:	Doma River 5.50 KM
18	Nearest Habitation	:	Kuchhu Village: 2.50 KM; Ormanjhi: 5.00 KM
19	Nearest Rail Station	:	Ranchi - 20.00 KM
20	Nearest Air Port	:	Ranchi - 25.00 KM
21	Nearest Forest	:	Not within 250m
22	Road & Highways	:	NH 33 – 05.00 KM; Ormanjhi – Kuchhu Road – 2.50 KM

CO-ORDINATES

1	Latitude	From 23° 30' 58.40" N	To 23° 31' 04.08" N
2	Longitude	From 85° 26' 56.05" E	To 85° 27' 03.08" E

LAND DETAILS :

	Mouza	Khata No.	Plot No.
1.	Chaprakocha	14	101
		96	99
		95	98
		93	97 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Lol has been issued by District Mining Office, Ranchi vide letter no. 664/M dated 06.07.2021.
2	CO	:	CO, Ormanjhi (Ranchi) vide letter no. 380(ii), dated 31.05.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Ranchi vide memo no. 691/M, dated 15.07.2021 certified that one lease (5.42 Acre) exists within 500 m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Ranchi vide letter no. 1158, dated 21.12.2021 certified that the National Park & Sanctuary is not within 10 km

		from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Ranchi vide letter no: 713, dated 26.02.2021 certified that the distance of notified forest is more than 250 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Ranchi vide letter no. 751/M, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) of Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Issued NOC on vide memo no. 439 (ii) dated 28.05.2021
8	Mine Plan Approval	: Memo No. 107/M, Ranchi dated 16.07.2021

Working Details :

1	Mining Method	: Opencast Mechanized.
2	Quarry Area	: Plan period – 1.213 ha
3	Waste Generation	: Plan period – 25,020 m ³
4	Stripping Ratio	: 0.073 (overall stripping ratio)
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m and 6 benches.
7	Elevation of Mine	: 658m AMSL
8	Ground Level Elevation	: 624m AMSL
9	Ultimate Working Depth	: 622 m AMSL
10	Water Table	: 615 m AMSL
11	Topography of Mine	: Mild slope from North- East to South- West.
12	Explosive Requirement	: 18,014 kg/year
13	Diesel/Fuel requirement	: NA (as DG set not required)

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench AMSL in Meters
1 st	57,420	1,55,034	3,060	650 – 638
2 nd	64,800	1,74,960	21,960	652 – 632
3 rd	66,720	1,80,144	-	646 - 640
4 th	66,720	1,80,144	-	646 - 634
5 th	66,720	1,80,144	-	628 - 622
Total	3,22,380	8,70,426	25,020	

Land Use :

SL	Pattern	Existing Land Use	Proposed	Proposed Land Use	Land Usage at
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		(Ha)	Current Plan Period (Ha)	at End of Life of Mine (Ha)	Conceptual Stage
1	Mining Area	0.10	1.213	1.213	Water Body
2	Dump	0.00	0.000	0.000	
3	Office /Store	0.00	0.000	0.000	-
4	Crusher	0.00	0.000	0.000	-
5	Road	0.00	0.000	0.000	-
6	Safety Zone	0.00	0.610	0.610	Green Belt
7	Unutilized	1.723	0.000	0.000	-
	TOTAL	1.823	1.823	1.823	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.610 ha	670 trees
2	Other Reclaimed Area	:	NIL	NIL
3	Haul /Approach Road	:	0.05 km	55 trees

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- There is no waste to be generated.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made in the outer part of safety barrier and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be

constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

- Domestic waste water will not be generated.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

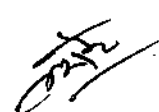
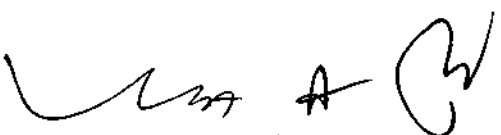
Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Chaprakocha Stone Mine of Sri Manoj Kumar Singhania,



Village : Chaprakocha, Tehsil : Ormanjhi, Dist. : Ranchi, Jharkhand (1.823 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Bricks Soil Mining for M/s Super Bricks, Village : Bokada, Thana : Boram, Thana No. : 155, Dist. : East Singhbhum, Jharkhand (1.849 Ha).

(Proposal No. : SIA/JH/MIN/224760 /2021).

Project Title Brick Soil Mining For M/s Super Bricks, Proprietor: Sri Rajesh Kumar Prasad in Mouza - Bakada, Thana – Boram, Thana No. – 155, District – East Singhbhum, Jharkhand, over an area of 4.57 Acres (1.849 Ha).

Proposal No. : SIA/JH/MIN/224760/2021

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1200 Cu.M. / year i.e. Bricks 6,00,000 Numbers / year.

Name of the consultant : M/s Crystal Consultants, Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 19.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s Super Bricks in Mouza Bakada.
2	Lessee:	: M/s Super Bricks Proprietor: - Sri Rajesh Kumar Prasad At New Subhash Colony, Sanjay Path, Road No. – 06, Dimna Road, Mango, P.O +Thana - Mango, Jamshedpur, District – East Singhbhum, State - Jharkhand, Pin Code - 831012.
3	Lease Address	: In Mouza – Bakada, Thana – Boram, Thana No. – 155, District – East Singhbhum, Jharkhand.
4	Lease Area	: Ha: 1.849 Hectares Acres: 4.57 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 10 Lakhs
7	EMP Budget	: Capital: 6.10 Lakhs Recurring: 2.47 Lakh / year
8	CSR / CER Budget	: Rs. 0.20 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: 23,634 Cu. M.
11	Mine Life	: 20 years
12	Man power	: 10
13	Water Requirement	: 9.15 KLD (Dust Suppression: 5.5 KLD, Drinking: 0.40 KLD, Plantation: 3.25 KLD)
14	Water Source	: From Nangasai River by tankers
15	DG Set / power	: No
16	Crusher	: No
17	Nearest Water Body	: Nangasai River is approx. 4.1 Km aerial distance away in North

		direction
18	Nearest Habitation	: Bangai village is approx. 550m aerial distance away in South-East direction
19	Nearest Rail Station	: Biramdih Railway Station is approx. 16.28 Km aerial distance away in North - West direction
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, Jharkhand is approx. 109.60 Km aerial distance away in North-West direction.
21	Nearest Forest	: 450m away from the proposed project.
22	Road & Highways	: Road: Bangai – Bankada - Patamda Road is approx. 300m away in South direction. Highway: NH-116B is approx. 10.40 Km away in North East direction.

CO-ORDINATES :

1	Latitude	From N22°56'37.93"	To N22°56'43.07"
2	Longitude	From E86°18'54.12"	To E86°19'02.58"

LAND DETAILS :

Khata No -	112
Plot No -	75, 91, 72, 90 & 92

STATUTORY CLEARANCES :

1	LOI / Lease docs	: Land agreement made.
2	CO	: The CO, Boram vide letter no. 300, dated 08.03.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon or Register II.
3	DMO	: DMO, East Singhbhum, Jamshedpur vide letter no. 2237, dated 22.12.2018 certified that no other lease exist within 500m radius from proposed project site.
4	DFO Wild Life	: Division Forest Officer, Dalma Elephant Project, Jamshedpur vide letter no. 930, dated 07.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: Division Forest Officer, Jamshedpur Forest Division vide letter no. 3230, dated 11.12.2021 certified that the distance of notified forest is more than 250m from proposed project site.

6	DSR	: Project's name is mentioned in page no 34 of District Survey report (DSR) East Singhbhum.
7	Gram Sabha	: On 26.11.2018
8	Mine Plan Approval	: Approved by the Deputy Director, Geology, Daltonganj, Palamau vide Letter No. 424/G dated 31.01.2019

Working Details :

1	Mining Method	: Opencast Manual Mining and transportation by tippers.
2	Quarry Area	: 5 years – 0.352 Ha
3	Waste Generation	: 5 years– 690 Cu.M (Top Soil) Life of Mine – 1.361 Ha
4	Stripping Ratio	: 1 : 0.115
5	Working Days	: 200 Days
6	Benches: size & No	: Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	: Highest RL 263m AMSL, Lowest RL 262m AMSL
8	Ground Level Elevation	: 262m AMSL
9	Ultimate Working Depth	: 260m AMSL
10	Water Table	: 237m AMSL
11	Topography of Mine	: Flat Land.
12	Explosive Requirement	: No
13	Diesel/Fuel requirement	: 4 KL/year (20 Litres/day)

Production Details :

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in Meters
1st	1200	6,00,000	138	263m – 260m (Average 2m)
2nd	1200	6,00,000	138	263m – 260m (Average 2m)
3rd	1200	6,00,000	138	263m – 260m (Average 2m)
4th	1200	6,00,000	138	263m – 260m (Average 2m)
5th	1200	6,00,000	138	263m – 260m (Average 2m)
Total	6000	30,00,000	690	

Land Use

SL	Pattern	Existing Land Use	Proposed Current	Proposed Land Use at End of	Proposed Land Use at End of	Land Usage at Conceptual
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		(Ha)	Plan Period (Ha)	Life of Mine (Ha)	Life of Mine (Ha)	Stage
1	Mining Area (Quarry)	Nil	0.352	1.361	1.361	Grass cultivation will be done on it
2	Office /Store	Nil	Nil	Nil	Nil	
3	Road	0.001	0.005	Nil	Nil	
4	Green Belt Within Safety Barrier	Nil	0.479	0.479	0.479	Plantation
5	Blocked Area due to Road safety	Nil	0.009	0.009	0.009	Grass cultivation will be done on it
6	Unutilized	1.848	1.004	Nil	Nil	
	TOTAL	1.849	1.849	1.849	1.849	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.479 Ha	1200 trees @ 2500 trees per Ha
2	Other Reclaimed Area Outside the project area	:	0.08 Ha	200 trees @ 2500 trees per Ha
3	Haul /Approach Road	:	0.06 Ha i.e. Length 300m width 2m	200 trees on both sides – 3m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste (Top soil) Generation will be 2723 Cu.M. during the life of Mine. The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

Water Quality Management

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- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the temporary top soil dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

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Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bricks Soil Mining for M/s Super Bricks, Village : Bokada, Thana : Boram, Thana No. : 155, Dist. : East Singhbhum, Jharkhand (1.849 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

8. Chagjo Stone Deposit of Shri Noor Islam, Village : Chagjo, Thana : Ranga, Thana No. : 8, Dist. : Sahebganj, Jharkhand (1.619 Ha).

(Proposal No. : SIA/JH/MIN /255038 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Stone: 17,846 Cu.M. / year i.e. 53,538 Tonnes / year

Name of the Consultant: M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

This is a new project which has been taken for appraisal on 19.02.2022

PROJECT and LOCATION Details :

Sl	Parameter	Details
1	Project Name	: Chagjo Stone Deposit
2	Applicant:	: Noor Islam At - Maharajpur, P.O. – Islampur, P.S. – Barharwa, District - Sahebganj, Jharkhand, Pin Code – 816101.
3	Lease Address	: In Mouza - Chagjo, Thana – Ranga, Thana No. – 8, District – Sahebganj, Jharkhand.
4	Applied Area	: Ha: 1.619 Hectares Acres: 4.00 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 70 Lakhs
7	EMP Budget	: Capital: 12.11 Lakhs Recurring: 4.01 Lakh / year
8	CSR / CER Budget	: Rs. 1.40 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 1,78,462 Cu. M. Tonnes: 5,35,385 Tonnes
11	Mine Life	: 10 years
12	Man power	: 30
13	Water Requirement	: 10.375 KLD Dust Suppression: 4.5 KLD, Drinking: 1.2 KLD, , Plantation: 4.675 KLD
14	Water Source	: From Gumani River by tankers
15	DG Set / power	: 60 KVA
16	Crusher	: No
17	Nearest Water Body	: Gumani River is flowing approx. 2.38 Km aerial distance away in South - west direction
18	Nearest Habitation	: Chagjo village is situated approx. 0.67 Km aerial distance away in

		South direction Barharwa Town is situated approx. 5.24 Km aerial distance away in the South-East direction
19	Nearest Rail Station	: Barharwa Railway Station is situated approx. 5.40 Km aerial distance away in South-East direction. Bakudi Railway Station is situated approx. 5.83 Km aerial distance away in North-East direction
20	Nearest Air Port	: Netaji Subhash Chandra Bose International Airport, Kolkata, West Bengal is approx. 258.5 Km aerial distance away in South - East direction.
21	Nearest Forest	: More than 250m away from the proposed project.
22	Road & Highways	: Approach Road: Barharwa - Chagio - Dulampur Road is approx. 220m away in east direction. Highway: NH-114A is approx. 3.95 Km away in South East direction.

CO-ORDINATES :

1	Latitude	From N24°53'28.89"	To N24°53'35.97"
2	Longitude	From E87°44'05.89"	To E87°44'09.75"

LAND DETAILS :

Jamabandi No -	9
Plot Nos -	19 (P)

STATUTORY CLEARANCES :

1	LOI/ Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj, vide letter no. 1018/M dated 05.10.2021.
2	CO	: The CO, Pathna vide letter no. 07, dated 21.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar or Register II.
3	DMO	: DMO, Sahebganj, vide letter no. 13/M, dated 05.01.2022 certified that no other lease exists within 500m radius from proposed project site & total lease area is not more than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1157, dated 06.07.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest	: Division Forest Officer, Sahebganj Forest Division vide letter no. 659, dated 11.03.2020 certified that the distance of notified forest is more

	Distance	than 250m from proposed project site.
6	DSR	The DC-cum-District Magistrate, Sahebganj vide letter no. 1154/M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	On dated 07.05.2020
8	Mine Plan Approval	Approved by the District Mining Officer, Sahebganj vide Letter No. 1241 dated 27.12.2021

Working Details :

1	Mining Method	: Opencast Mechanized Mining.
2	Quarry Area	: 5 years – 0.872 Ha. Life of Mine – 1.259 Ha
3	Waste Generation	: 5 years– 8677 Cu.M (Gritty Soil) Life of Mine – 16662 Cu.M (Gritty Soil)
4	Stripping Ratio	: 1 : 0.09
5	Working Days	: 300 Days
6	Benches: size & No	: Size: 6m x 6m, No. - 7
7	Elevation of Mine	: Highest RL 124m AMSL, Lowest RL 102m AMSL
8	Ground Level Elevation	: 75m AMSL
9	Ultimate Working Depth	: 78m AMSL
10	Water Table	: 66m AMSL
11	Topography of Mine	: Sloppy land.
12	Explosive Requirement	: 13.8 Tons/year
13	Diesel/Fuel requirement	: 42 KL/year (140 Litres/day)

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste (gritty soil) Generation (CuM)	Bench RL in Meters
1st	17846	53538	4177	120m – 108m
2nd	17845	53536	000	114m – 102m
3rd	17846	53538	4500	114m – 102m
4th	17845	53536	000	108m – 96m
5th	17846	53538	000	102m – 90m
Total	89228	267686	8677	

Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine	Land Usage at Conceptual Stage

			(Ha)		(Ha)	
1	Mining Area (Quarry)	0.040	0.872	1.259 (including backfilling 0.126 Ha)	1.259	0.750 Ha Water Body + 0.509 Ha Dead bench Plantation
2	Green Belt Within Safety Barrier	Nil	0.360	0.360	0.360	Plantation
3	Road	Nil	0.005	Nil	Nil	-
4	Dump	Nil	0.174	Nil	-	-
	Parapet Wall	Nil	0.011	Nil	-	-
	Garland Drain	Nil	0.015	Nil	-	-
5	Unutilized	1.579	0.182	Nil	Nil	-
	TOTAL	1.619	1.619	1.619	1.619	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.36 Ha	900 trees @ 2500 trees per Ha
2	Dead Bench Plantation	:	0.509 Ha	1273 trees @ 2500 trees per Ha
3	Haul /Approach Road	:	0.044 Ha i.e. Length 220 width 2m	148 trees on both sides – 3m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste (gritty soil) Generation will be 16662 Cu.M. during the life of Mine.

The area is covered with a layer of Gritty soil of about 1.5m in thickness. During quarry development in 1st & 3rd year, huge amount of gritty soil will be removed and this soil will be temporarily dumped [1st year (L x W x H =32m x 21m x 5m) & 3rd year (L x W x H =30m x 29m x 5m)] at the southern part of the area with suitable precautions like parapet wall and garland drain. In conceptual period total removal Gritty soil will be backfilled within the exhausted quarry.

Water Quality Management




- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming :

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.







- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Chagjo Stone Deposit of Shri Noor Islam, Village : Chagjo, Thana : Ranga, Thana No. : 8, Dist. : Sahebganj, Jharkhand (1.619 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

9. Brick Soil Mining for M/s R.D. Bricks, Village : Kumharh, Thana : Sadar Medininagar, Thana No. : 271, Dist. : Palamu, Jharkhand (0.404 Ha).

Project Title Brick Soil Mining For M/s R.D. Bricks, Proprietor: Sri Virendra Dubey in Mouza - Kumharh (Barkagaon), Thana – Sadar Medininagar, Thana No. – 271, District – Palamu, Jharkhand, over an area of 1.00 Acres (0.404 Ha).

Proposal No. : SIA/JH/MIN/250225/2022

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1140 Cu.M. / year i.e. Bricks 6,00,000 Numbers / year.

Name of the consultant : M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

This is a new project which has been taken for appraisal on 19.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s R.D. Bricks in Mouza – Kumharh (Barkagaon).
2	Lessee:	: M/s R.D. Bricks Proprietor: Sri Virendra Dubey S/o – Muneshwar Dubey At 60 Kudwa, Patan, P.O.- Sirma, District – Palamu, State – Jharkhand, Pin Code – 822123.
3	Lease Address	: In Mouza - Kumharh (Barkagaon), Thana – Sadar Medininagar, Thana No. – 271, District – Palamu, Jharkhand.
4	Lease Area	: Ha: 0.404 Hectares Acres: 1.00 Acres

5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	08 Lakhs
7	EMP Budget	:	Capital: 3.50 Lakhs Recurring: 2.17 Lakh / year
8	CSR / CER Budget	:	Rs. 0.16 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 5774 Cu. M.
11	Mine Life	:	5 years
12	Man power	:	10
13	Water Requirement	:	8.82 KLD (Dust Suppression: 7.2 KLD, Drinking: 0.40 KLD, Plantation: 1.22 KLD)
14	Water Source	:	From Amanat River by tankers
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Amanat River is approx. 162m aerial distance away in North direction
18	Nearest Habitation	:	Dhangardiha village is approx. 600m aerial distance away in North-West direction
19	Nearest Rail Station	:	Kajri Railway Station is approx. 4.40 Km aerial distance away in North - West direction
20	Nearest Air Port	:	Gaya International Airport, Gaya, Bihar is approx. 112.08 Km aerial distance away in North-East direction.
21	Nearest Forest	:	8 Km away from the proposed project.
22	Road & Highways	:	Road: Patan road is 610m away from the applied area in West direction. Highway: SH-10 is approx. 2.62 Km away in South- East direction.

CO-ORDINATES :

1	Latitude	From N24°04'47.20"	To N24°04'49.00"
2	Longitude	From E84°06'47.80"	To E84°06'50.90"

LAND DETAILS :

Khata No -	107	64
Plot No -	35(P)	38(P)

STATUTORY CLEARANCES :

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Sadar Medninaragar vide letter no. 638, dated 15.09.2017 has mentioned the plot no. of the project is not recorded as "Jangle Jhari"

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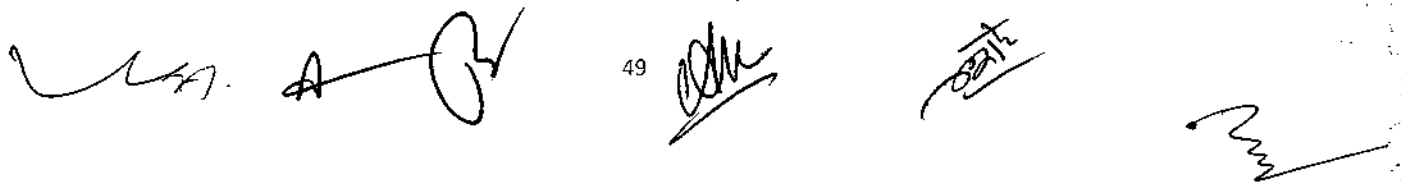
		in Khatiyan.
3	DMO	: DMO, Palamu, Medninagar vide memo no. 1187/M, dated 12.10.2017 certified that no other lease exist within 500m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	: Deputy Director, Core area Palamu Tiger Reserve vide letter no. 1187, dated 21.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: Division Forest Officer, Medninagar Forest Division vide letter no. 4639, dated 09.09.2017 certified that the distance of notified forest is more than 250m from proposed project site.
6	DSR	: Project's name is mentioned in page no 34, serial no 60 of District Survey report (DSR) Palamu.
7	Gram Sabha	: On 05.05.2017
8	Mine Plan Approval	: Approved by the Deputy Director, Geology, Palamu vide Memo No. 185/G dated 11.11.2017

Working Details :

1	Mining Method	: Opencast Manual Mining and transportation by tippers.
2	Quarry Area	: 5 years – 0.343 Ha Life of Mine – 0. 343 Ha
3	Waste Generation	: 5 years– 686 Cu.M (Top Soil) Life of Mine – 686 Cu.M (Top Soil)
4	Stripping Ratio	: 1 : 0.12
5	Working Days	: 200 Days
6	Benches: size & No	: Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	: Highest RL 216m AMSL, Lowest RL 215m AMSL
8	Ground Level Elevation	: 215m AMSL
9	Ultimate Working Depth	: 213m AMSL
10	Water Table	: 204m AMSL
11	Topography of Mine	: Flat Land.
12	Explosive Requirement	: No
13	Diesel/Fuel requirement	: 4 KL/year (20 Litres/day)

Production Details :

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in Meters
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1st	1140	6,00,000	137.2	216m – 214m
2nd	1140	6,00,000	137.2	216m – 214m
3rd	1140	6,00,000	137.2	216m – 214m
4th	1140	6,00,000	137.2	215m – 213m
5th	1140	6,00,000	137.2	215m – 213m
Total	5700	30,00,000	686.0	

Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area (Quarry)	Nil	0.343	0.343	0.343	Grass cultivation will be done on it
2	Office /Store	Nil	Nil	Nil	Nil	
3	Road	Nil	Nil	Nil	Nil	
4	Green Belt Within Safety Barrier	Nil	0.061	0.061	0.061	Plantation
5	Unutilized	0.404	0.459	Nil	Nil	
	TOTAL	0.404	0.404	0.404	0.404	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.061 Ha	153 trees @ 2500 trees per Ha
2	Other Reclaimed Area Outside the project area		
3	Haul /Approach Road	0.122 Ha i.e. Length 610m width 2m	408 trees on both sides – 3m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment &

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Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste (Top soil) Generation will be 686 Cu.M. during the life of Mine.
The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the temporary Top soil dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.

- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining for M/s R.D. Bricks, Village : Kumharh, Thana : Sadar Medininagar, Thana No. : 271, Dist. : Palamu, Jharkhand (0.404 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – 1.

10. Brick Soil Mining for M/s Taj Bricks, Village : Chora, P.S. : Chanho, Thana No. : 22, Dist. : Ranchi, Jharkhand (0.96 Ha).

(Proposal No. : SIA/JH/MIN/225115 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1200 Cu.M. / year i.e. Bricks 6,00,000 Numbers / year.

Name of the Consultant: M/s Crystal Consultants, Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 19.02.2022.

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s Taj Bricks in Mouza – Chora.
2	Lessee address	: M/s Taj Bricks Proprietor: Md. Mumtaj Khan S/o – Md. Isarail Khan At Village – Pathkoi, P.O- Murupiri, P.S- Burmu, District – Ranchi, State – Jharkhand, Pin Code – 835214.
3	Lease Address	: In Mouza - Chora, Thana – Chanho, Thana No. – 22, District – Ranchi, Jharkhand
4	Lease Area	: Ha: 0.96 Hectares Acres: 2.37 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 07 Lakhs
7	EMP Budget	: Capital: 3.35 Lakhs Recurring: 2.14 Lakh / year
8	CSR / CER Budget	: Rs. 0.14 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 9,688 Cu. M.

11	Mine Life	:	8 years
12	Man power	:	10
13	Water Requirement	:	4.70 KLD (Dust Suppression: 2.5 KLD, Drinking: 0.40 KLD, Plantation: 1.8 KLD)
14	Water Source	:	From Saphi River by tankers
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Saphi River is approx. 2.82 Km aerial distance away in North - East direction
18	Nearest Habitation	:	Chora village is approx. 620m aerial distance away in South -East direction
19	Nearest Rail Station	:	Khalari Railway Station is approx. 9.38 Km aerial distance away in North direction
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi is approx. 41.97 Km aerial distance away in South - East direction.
21	Nearest Forest	:	350m away from the proposed project.
22	Road & Highways	:	Highway: SH-7 is approx. 30m away in East direction.

CO-ORDINATES :

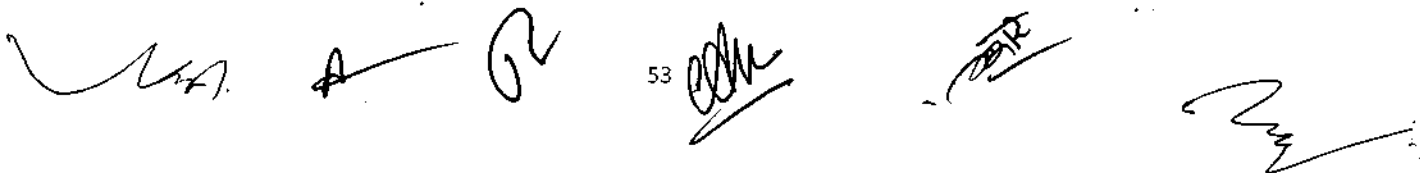
1	Latitude	From N23°33'58.54"	To N23°34'01.81"
2	Longitude	From E85°00'50.48"	To E85°00'56.46"

LAND DETAILS :

Khata No -	91
Plot No -	960, 970 & 973

STATUTORY CLEARANCES :

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Chanho, Ranchi, vide letter no. 5(ii), dated 09.01.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar or Register II.
3	DMO	:	DMO, Ranchi vide memo no. 724/M, dated 02.08.2021 certified that no other lease exist within 500m radius from proposed project site.
4	DFO Wild Life	:	Division Forest Officer, Wild Life Division, Ranchi, vide memo no. 1020, dated 16.09.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is



		not situated in any ESZ.
5	DFO Forest Distance	: Division Forest Officer, Ranchi Forest Division vide letter no. 903, dated 14.03.2018 certified that the distance of notified forest is 350 m from proposed project site.
6	DSR	: Project's name is mentioned in page no 169 of District Survey report (DSR) Ranchi.
7	Gram Sabha	: On 26.01.2018
8	Mine Plan Approval	: Approved by the Assistant Mining Officer, Ranchi vide Letter No. 425 dated 09.05.2018.

Working Details :

1	Mining Method	: Opencast Manual Mining and transportation by tippers.
2	Quarry Area	: 5 years – 0.375 Ha Life of Mine – 0. 574 Ha
3	Waste Generation	: 5 years– 710 Cu.M (Top Soil) Life of Mine – 1143 Cu.M (Top Soil)
4	Stripping Ratio	: 1 : 0.12.
5	Working Days	: 200 Days
6	Benches: size & No	: Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	: Highest RL 627m AMSL, Lowest RL 626m AMSL
8	Ground Level Elevation	: 626m AMSL
9	Ultimate Working Depth	: 625m AMSL
10	Water Table	: 613m AMSL
11	Topography of Mine	: Flat Land.
12	Explosive Requirement	: No
13	Diesel/Fuel requirement	: 4 KL/year. (20 Litres/day)

Production Details :

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in Meters
1st	1200	6,00,000	142	626m – 624m
2nd	1200	6,00,000	142	626m – 624m
3rd	1200	6,00,000	142	626m – 624m
4th	1200	6,00,000	142	626m – 624m
5th	1200	6,00,000	142	626m – 624m
Total	6000	30,00,000	710	

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Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area (Quarry)	Nil	0.375	0.574	0.574	Grass cultivation will be done on it
2	Green Belt Within Safety Barrier	Nil	0.351	0.351	0.351	Plantation
3	Road	0.001	0.013	-	-	
4	Blocked Area due to Road safety	Nil	0.035	0.035	0.035	Grass cultivation will be done on it
5	Unutilized	0.959	0.186	Nil	-	
	TOTAL	0.960	0.960	0.960	-	

ENVIRONMENT MANAGEMENT

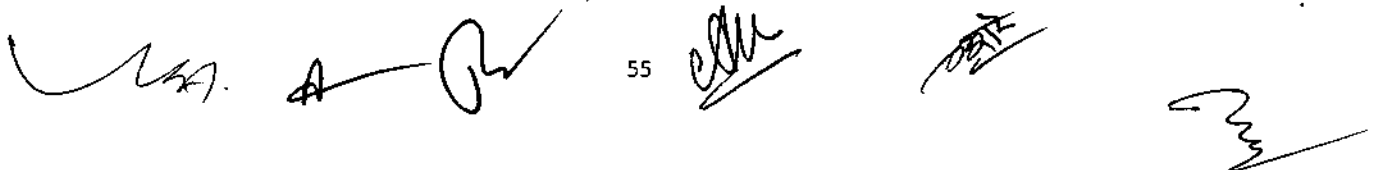
Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.351 Ha	878 trees @ 2500 trees per Ha
2	Other Reclaimed Area Outside the project area	:	-	-
3	Haul /Approach Road	:	0.006 Ha i.e. Length 30m width 2m	20 trees on both sides – 3m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste (Top soil) Generation will be 1143 Cu.M. during the life of Mine. The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.



Water Quality Management



- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the temporary Top soil dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

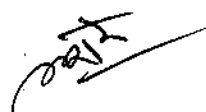
- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.







Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining for M/s Taj Bricks, Village : Chora, P.S. : Chanho, Thana No. : 22, Dist. : Ranchi, Jharkhand (0.96 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

11. (i) Vasundhara Elegance (ii) Vasundhara Megamart (iii) Vasundhara Radiance of M/s Vasundhara Homes Pvt. Ltd. at Mouza : Argora, Tehsil : Argora, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/71899/2022).

Name of the consultant : Crystal Consultants, Ranchi

This is a case of violation which has been taken for appraisal on 19.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

Salient Features of the Project :

Particular	Details
Plot Area as per allotment	Total Plot Area as per Deed : 9324.11 Sq. m.
Latitude & Longitude	23°21'07" N 85°17'58" E
Built – Up Area	Built – Up Area : 27929.00 Sq. m. 1. Community Hall : 469.07 Sq. m. 2. Commercial Building (Block – A) : 2770.65 Sq. m. 3. Residential Building (Block – B) : 10469.43 Sq. m. 4. Residential Building (Block – C) : 14220.33 Sq. m.
Plot No.	1781, 1782 (P), 1735 (P)
Khata No.	34
Number of Floor	1. Community Hall : G+2 2. Commercial Building (Block – A) : LG+G+5 3. Residential Building (Block – B) : LG+G+10 4. Residential Building (Block – C) : LG+G+14
Number of Block	4 Blocks 1. Community Hall 2. Commercial Building (Block – A) 3. Residential Building (Block – B) 4. Residential Building (Block – C)
Building configuration	1. Commercial Building (Block – A)

	Shop on Street Level : 10 Shop above Street Level : 10 Office : 15 2. Residential Building (Block – B) 2 BHK : 10 3 BHK : 70 3. Residential Building (Block – C) 3 BHK : 112
FAR	2.99
Ground Covered Area	3059.04 Sq. m.
Population	1754 1. Community Hall : 94 2. Commercial Building (Block – A) : 404 3. Residential Building (Block – B) : 517 4. Residential Building (Block – C) : 739
Municipal Solid Waste	1. Community Hall : 56.29 2. Commercial Building (Block – A) : 242.52 3. Residential Building (Block – B) : 310.20 4. Residential Building (Block – C) : 443.52
Bio-Degradable (40 % of MSW)	1. Community Hall : 22.52 2. Commercial Building (Block – A) : 97.01 3. Residential Building (Block – B) : 124.08 4. Residential Building (Block – C) : 177.41
Non – Biodegradable (60% of MSW)	1. Community Hall : 33.77 2. Commercial Building (Block – A) : 145.51 3. Residential Building (Block – B) : 186.12 4. Residential Building (Block – C) : 266.11
Power Requirement	Community Hall : 75 KVA Commercial Building (Block – A) : 129 KVA Residential Building (Block – B) : 400 KVA Residential Building (Block – C) : 560 KVA For Common Services : 50 KVA TOTAL : 1214 KVA Source – Jharkhand State Electricity Board Back-up Power (DG Set) Community Hall : 35 KVA Commercial Building (Block – A) : 62.5 KVA Residential Building (Block – B) : 125 KVA Residential Building (Block – C) : 112 KVA For Common Services : 25 KVA TOTAL : 359.5 KVA
Back – Up Power	<u>Back-up Power (DG Set)</u> Community Hall : 35 KVA

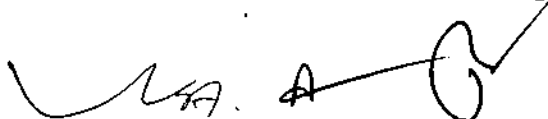
	Commercial Building (Block – A) : 62.5 KVA Residential Building (Block – B) : 125 KVA Residential Building (Block – C) : 112 KVA For Common Services : 25 KVA TOTAL : 359.5 KVA
Parking	1. Community Hall : 10 Cars 2. Commercial Building (Block – A) : 12 Cars 3. Residential Building (Block – B) : 80 Cars 4. Residential Building (Block – C) : 112 Cars
Fresh Water Demand	128.32 KLD
Treated Water Demand	134.94 KLD
Total Water Demand	263.27 KLD
STP	170.00 KLD
Project cost	Rs. 26.61 Crores
No. of RWH Pits	3 Pits
Height	48 m

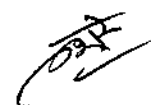
STATUTORY CLEARANCE

- Building Plan Approved by Ranchi Municipal Corporation vide Memo No. BP02/2014/930 (933/2014/A), Dated 07/02/2017.
- Airport Authority of India issued a height clearance NOC vide its NOC ID – RANC/EAST/B/021116/120948, dated 01/03/2016.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. 120, Dated 15/02/2016
- The DFO, Wildlife Ranchi Vide Letter No. 836 Dated 25/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Ranchi Division vide Letter No. 2725 Dated 28/09/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Argora, Ranchi vide Letter No. 89 (ii), Dated 03/02/2022 has mentioned plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyani & Register II.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.






- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

12. P & M Hi-Tech City Centre Mall of M/s P & M and Hi-Tech Infrastructures LLP at Mauza : Jugsalai, Tehsil : Dhalbhum, Dist. : East Singhbhum, Jharkhand

(Proposal No : SIA/JH/MIS /72005/2022).

Name of the consultant : Crystal Consultants, Ranchi

This is a case of violation which has been taken for appraisal on 19.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM. no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.





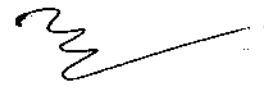
Salient Features of the Project :

Particular	Details		
Project Name	P & M Hi-Tech City Centre Mall		
Proponent	P & M Infrastructure Pvt. Ltd. P & M Hitech City Centre Mall, 3rd Floor, Bistupur, Jamshedpur – 831001 (Jharkhand)		
Type of Building	Commercial Building		
Latitude	22°47'06.09" N		
Longitude	86°10'43.95" E		
Khata No.	2		
Plot No.	952 (P)	966 (P)	973 (P)
Mauza	Jugsalai		
Tehsil	Dhalbhum		
District	East Singhbhum		
State	Jharkhand		
Plot Area	12625.033 m ² (as per sale deed i.e. 3.12 Acres)		
Tree Cover	2525 m ²		
Ground Coverage	7145.77 m ² (56.60 %)		
Permissible FAR	3.00		
Consumed FAR	2.72		
Height	42 m (from Ground Level)		
Total Built-Up Area & its break – up	51990.00 m ²		
	Floor	Total Proposed Built-Up Area (m ²)	
	Basement First Floor	7472.20	
Basement Floor	7248.28		

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	Ground Floor	7155.67
	First Floor	7732.50
	Second Floor	7431.71
	Third Floor	7427.45
	Fourth Floor	1577.38
	Fifth Floor	990.80
	Sixth Floor	990.80
	Seventh Floor	990.80
	Eighth Floor	990.80
	Ninth Floor	990.80
	Tenth Floor	990.80
	TOTAL	51990.00
No. of Floor	2 Basement + G+10	
No. of Building Block	1	
No. of Tenement	259	
Population	5050	
Municipal Solid Waste	3030.00 Kg Bio-degradable :1212.00 Kg Non-Bio-degradable : 1818.00 Kg	
Parking	4 Wheeler : 330 2 Wheeler : 345 Area for Parking : 10256.04 m ²	
Power Requirement	1800 KVA Source - TSUIL (Tata Steel Utility and Infrastructure Services Limited)	
Solar Power / Renewal Energy	360 KVA	
Power Back-up	1250 KVA	
Fresh Water Demand	71.06 KLD	
Treated Water Demand	88.85 KLD	
Total Water Demand	159.91 KLD	
Volume of Waste Water	120.70 KLD	
Capacity of STP	130.00 KLD	
Volume of Treated Water	96.56 KLD	
Project Cost	Rs. 151.92 Crores	
No. of RWH Pits	4 pits	

STATUTORY CLEARANCE



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- Building Plan Approved by Jamshedpur Notified Area Corporation vide Building Permit Number : 28846, Dated : 31/05/2017.
- Airport Authority of India issued a height clearance NOC vide its NOC ID – JAMS/EAST/B /102221/630005, dated 08/11/2021.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. – 4141/Tech./ 2021, dated 22/12/2021.
- The DFO, Dalma Elephant Project Jamshedpur Vide Letter No. 1939 Dated 13/12/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Jamshedpur Division vide Letter No. 3082 Dated 29/11/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Jamshedpur vide Letter No. 2190 Dated 31/11/2021 has mentioned plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyani & Register II.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

13. “Nucleus Heights” of M/s Arrowline Real Estate Pvt. Ltd., Village : Misirgonda, Tehsil : Kanke, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/247769 /2021).

Name of the consultant : Crystal Consultants, Ranchi

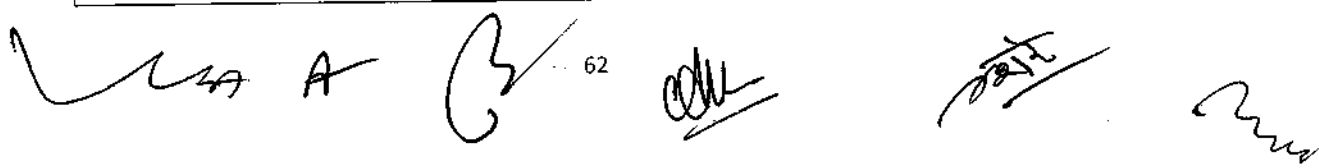
This is a new project which has been taken for appraisal on 19.02.2022.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.






Salient Features of the Project :

Particular	Details
Project Name	“Nucleus Heights” of M/s Arrowline Real Estate Pvt. Ltd.
Proponent	Ms Arrowline Realestate Pvt Ltd Through Md Shri Bishnu Kumar Agarwala Address : Adarsh Heights Pvt.Ltd. (Nucleus Mall),Circular Road ,Near East Jail More ,Ranchi, Jharkhand

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	Email ID : - bka@kushulgroup.com		
	Mobile No. : - 9830152490		
Type of Building	Commercial Building		
Latitude	23°24'11.78"N		
Longitude	85°18'55.74"E		
Khata No.	72	184	271
Plot No.	1772	1774, 1775	1773
Mauza	Misirgonda		
Tehsil	Kanke		
District	Ranchi		
State	Jharkhand		
Plot Area	4294.14 m ² (as per sale deed)		
Tree Cover	368.83 m ² (8.59 %)		
Ground Coverage	1184.27 m ² (33.27 %)		
Permissible FAR	3.00 +0.21 = 3.21		
Consumed FAR	3.17		
Height	41.25 m (from Ground Level)		
Total Built-Up Area & its break – up	20331.48 m ²		
	Floor	Total Proposed Built-Up Area (m2)	
	Basement First Floor	2560.20	
	Basement Floor	2462.80	
	Ground Floor	1238.02	
	First Floor	1625.69	
	Second Floor	1625.69	
	Third Floor	1205.77	
	Fourth Floor	1474.74	
	Fifth Floor	1474.72	
	Sixth Floor	1474.80	
	Seventh Floor	1474.80	
	Eighth Floor	1505.02	
Ninth Floor	1517.87		



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	Tenth Floor	572.94
	Terrace Floor	118.43
	TOTAL	20331.49
No. of Floor	G+10	
No. of Building Block	1	
No. of Tenement	43	
Population	1566	
Municipal Solid Waste	939.32 Kg	
Parking	4 Wheeler : 139 2 Wheeler : 431 Area for Parking : 5952.22 m ²	
Power Requirement	700 KVA <i>Source – Jharkhand State Electricity Board</i>	
Power Back-up	250 KVA 2 DG Set having capacity 125KVA each.	
Fresh Water Demand	36.42 KLD	
Treated Water Demand	43.06 KLD	
Total Water Demand	79.48 KLD	
Capacity of Waste Water	53.83 KLD	
Capacity of STP	65 KLD	
Project Cost	Rs 143.737 Crores	
No. of RWH pits	3 pits	

STATUTORY CLEARANCE

- Building Plan Approved by Ranchi Municipal Corporation vide Memo No. : RMC/BP/0528 /W02/2019 dated : 22/08/2029.
- Airport Authority of India issued a height clearance NOC vide its NOC ID – RANC/EAST/ B/092521/621068, Dated 01/10/2021.
- IGBC Registration No. :NBT 200009, dated : 06/07/2020
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. 1581/TK, Dated 27/06/2019
- The DFO, Wildlife Ranchi Vide Letter No. 805 Dated 14/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.











- The DFO, Ranchi Division vide Letter No. 245 Dated 21/01/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Hehal vide Letter No. 1035 (ii) Dated 31/12/2020 has mentioned plot no. of the project is not recorded as "Jangle Jhari".in R.S Khatiyan & Register II.

Based on the presentation made and information provided, the Committee decided that the proposal for "Nucleus Heights" of M/s Arrowline Real Estate Pvt. Ltd., Village : Misirgonda, Tehsil : Kanke, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith following specific condition :

- I. Green belt should be developed & maintained in not less than 15% of project area.
- II. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review
- III. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- IV. All raw material to be stored only under covered shed.
- V. PAs to ensure ZERO DISCHARGE for its process discharges.
- VI. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.

14. Sitagarh Stone Mine of M/s Abhen Mining & Engineering Work Pvt. Ltd., Village : Sitagarh and Sreerampur, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.11 Ha).

(Proposal No. : SIA/JH/MIN/254632 /2022).

The Project Authorities vide letter dated 19.02.2022 requested to defer appraisal of the proposal for next meeting. The Committee considered the request and accepted the same.

Day 3 : February 20, 2022 [Sunday]

Consideration of Proposals

1. Residential & Commercial Building "Siddhartha Maison" of M/s Shridhar Real Estates Pvt. Ltd., Vill: Pundag, Thana : Jagarnathpur, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/ MIS/250633 /2022).

Name of the consultant : P & M SOLUTION, Noida

This is a new project which has been taken for appraisal on 20.02.2022.




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Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

Salient Features of the Project :

Parameters	Description
Plot Area	7201.98 sq.m
Project Cost	INR 76.14 Crores
Built-up Area	33621.57 square meter
Green Area	2376.65 sq m (33% of plot area)
Population	681
Water Requirement	90 KLD
Fresh Water Requirement	55 KLD
Wastewater Generation	75 KLD
STP Capacity	100 KLD
Total Municipal Waste	311 kg/day
Power Requirement	1050 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 150 KVA
RWH Pits	03 no.
Parking	1403 no.
Connecting road	The project site is well connected with road. 9.14 m wide road abuts project site in North direction.
National Highway	NH 75 (770 m, E) 9.14 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.0 km, E)
Airport	Birsa Munda Airport, (3.4 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.0 Km, SE) Raj Hospital (3.3 km, ENE)
Nearest Water Bodies	Pipartoli (360 m, N) Argora Talab (660 m, ENE)

CO-ORDINATES :

1	Latitude	From 23°21'21.73"N	To 23°35'65.80"N
2	Longitude	From 85°16'23.07"E	To 85°27'33.97"E



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LAND DETAILS

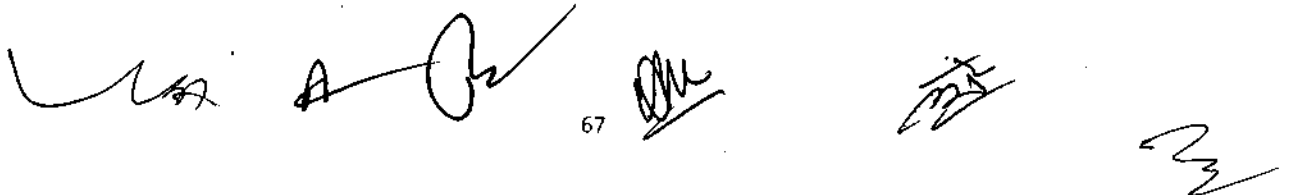
1	Village - Pundag, Tehsil- Ranchi	Khata No.-247	Plot No. 593, 594
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STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 1930, dated 29.07.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 1143, dated 15.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Nagri, Ranchi vide letter no. 1383, dated 31.12.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/101720/503290 dated 04.12.2020.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 3190/tech dated 06.10.2021.
6	Building Plan	:	Approved Building Plan

Area Summary

S. NO.	DESCRIPTION	AREA (SQ M)
A.	Total plot area	7201.98
B.	Proposed Ground Coverage (@32.98% of plot area)	2375.50
C.	Proposed FAR (@ 3.47)	25002.05
D.	Non FAR Area (Strain case, Lift, Balcony, Ramp, Accessory Use, Basement Parking)	8619.53
E.	Built-up Area (C+D)	33621.57
F.	Green Area (@33% of net plot area)	2376.65
G.	Drive way & Open Area/paved area (@ 34%)	2449.78
H.	Height (m)	52
I.	No of Dwelling Units	167



Calculations for Total Daily Water Demand

Category	Population/ Area (sq m)/Capacity	Standard (LPCD)	Water Requirem ent (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
Domestic					
Residents	554	135	75	53	22
Staff	28	45	2	0.6	1.4
Visitors	55	15	1	0.7	0.3
Commercial	44	45	2	0.6	1.4
Total Domestic Water Demand			80	55	25
Landscape	2376.65 sqm	3 ltr/sqm	7	-	7
Fire Fighting			1	-	1
DG cooling	150 KVA	0.9 l/kVA/hr	2	-	2
Total		-	90	55	35

Wastewater Calculations

Category	Total Quantity (KLD)
Domestic water Req.	55
Flushing water Req.	25
Sewage generation (@90% of the Domestic + 100% flushing water requirement)	75
Capacity of STP	100
Recovered water from STP (90% of Waste water)	68
1. Flushing	25
2. Landscaping	7
3. Fire Fighting	1
4. DG cooling	2
5. Construction in nearby areas/road washing/sewer	33

ENVIRONMENT MANAGEMENT

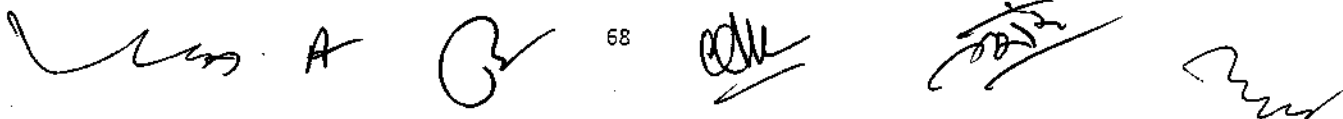
Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 2376.65 sq m (33% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.



- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

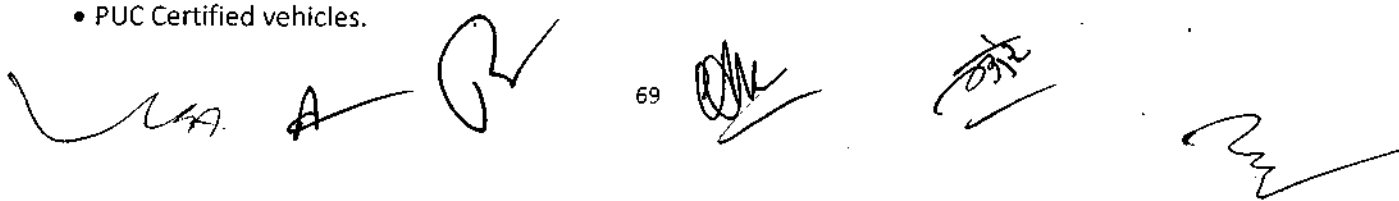
- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 100 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 55.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.


 A series of handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, several smaller initials in the middle, and a signature on the right.

- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Details of energy conservation.
- iii. Submission of contour plan and evacuation plan.
- iv. Revised water requirement calculation & its usage.
- v. Revised EMP & Monitoring budget during construction & operation phase.
- vi. Revised solid waste calculation.
- vii. Justification for increase in noise level.
- viii. Details of rain water harvesting & its usage.

The PAs have submitted the above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Residential & Commercial Building "Siddhanta Prasen of P/S Shridhar Real Estates" Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II alongwith following specific condition :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- III. All raw material to be stored only under covered shed.
- IV. PAs to ensure ZERO DISCHARGE for its process discharges.
- V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VI. Green belt and Green cover to be implemented as provided in layout plan.

2. Proposed Residential Building of M/s Newqonetic Tradecom LLP, Mouza : Hesag, Thana no. : 247, P.S. : Jagarnathpur, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/252716 /2022).

Project Category: 8 (a) Category B2 – Application for Environment Clearance

EC Application for: Residential buildings: Total built-up area of 36806.26 sq m

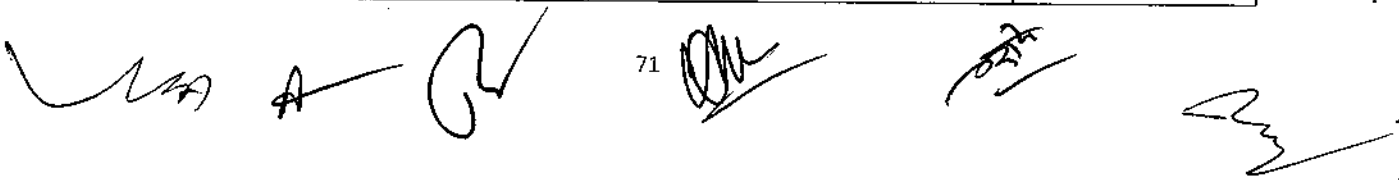
Name of the consultant: P & M SOLUTION, Noida

PROJECT and LOCATION Details:

Parameters	Description
Plot Area	7908.87 sq m
Khata No.	Plot No. 1051, 1052 & 1055, Khata No. 81
Project Cost	INR 43.2 Crores
Built-up Area	36806.26 sq m
Green Area	1681.34 sq m (21.25 % of plot area)
Population	1477
Water Requirement	200 KLD
Fresh Water Requirement	128 KLD
Wastewater Generation	158 KLD
STP Capacity	200 KLD
Total Municipal Waste	704 kg/day
Power Requirement	2200 KVA (Jharkhand State Electricity board)
DG Sets	3 no. of DG set of total 1250 KVA (1X250+2X500 KVA)
RWH Pits	03 no.
Parking	439 no.
Connecting road	The project site is well connected with road. 9.14 m wide road abuts project site in North direction.
National Highway	NH 75 (770 m, E) 9.14 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.0 km, E)
Airport	Birsa Munda Airport, (3.4 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.0 Km, SE) Raj Hospital (3.3 km, ENE)
Nearest Water Bodies	Pipartoli (360 m, N) Argora Talab (660 m, ENE)

Area Summary

Sl No.	Description	Area (Sq M)
A.	Plot Area	7908.87
B.	Proposed Ground Coverage (@29.4 % of plot area)	2325.29
C.	FAR area	26918.9


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D.	Non-FAR area	9887.36
E.	Built-up Area (C+D)	36806.26
F.	F.A.R	3.40
G.	Green Area (@ 21.25 % of the plot area)	1681.34
H.	Drive away & Open area (@49.33 % of the plot area)	3902.21
I.	Height	40 m
J.	No. of Dwelling Units	264

Block Wise Dwelling Units Details

S. No.	Building Blocks (Residential Building)	Number Of Floors	Du's
1.	Block A (LWR+G+12)	13	66
2.	Block B (LWR+G+12)	13	66
3.	Block C (LWR+G+11)	12	44
4.	Block D (LWR+G+11) (LIG & EWS)	12	88
	Total		264

CO-ORDINATES

1	Latitude	From 23°17'27.00" N
2	Longitude	From 85°19'10.73" E.

LAND DETAILS

1	Mouza Hesag, Thana No 247, Jagarnathpur	Khata No. 81	Plot No. 1051, 1052 & 1055
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STATUTORY CLEARANCES

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2280, dated 25.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide letter no. 1083, dated 06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Namkum (Ranchi) vide letter no. 1439, dated 17.11.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/091421/575201 dated 21.10.2021.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
Domestic					
Residents	1330	135	180	126	54
Staff	25	45	2	0.6	1.4
Visitors	132	15	2	1.4	0.6
Total Domestic Water Demand			184	128	56
Landscape	1681.3 Sq.m	5 ltr/sqm	8.4	-	8.4
Fire Fighting			1	-	1
DG cooling	1250 KVA	0.9l/kVA/hr	6.75	-	6.75
Total		-	200	128	72

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non-Recyclable (kg/day)
1.	Residents	1320	0.5	660	528	132
2.	Staff	25	0.25	7	5.6	1.4
3.	Visitors	132	0.15	20	16	4

4.	Landscape waste	0.42 acres	0.2 kg/acres	1	1	
5.	STP sludge	200 KLD	--	16	13	3
Total Waste Generated				704	563.6	140.4

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 21681.34 sq m (21.25 % of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

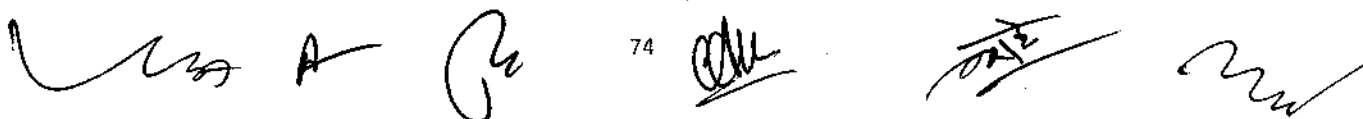
During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.



- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 200 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 128.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

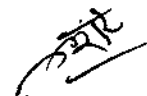



Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Details of energy conservation.
- iii. Submission of contour plan and evacuation plan.
- iv. Revised water requirement calculation & its usage.
- v. Revised EMP & Monitoring budget during construction & operation phase.
- vi. Revised solid waste calculation.
- vii. Justification for increase in noise level.
- viii. Details of rain water harvesting & its usage.
- ix. Undertaking regarding safety barrier from forest site for the construction activity.

The PAs have submitted the above required documents.



Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Residential Building of M/s Newqonetic Tradecom LLP, Mouza : Hesag, Thana no. : 247, P.S. : Jagarnathpur, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith following specific condition :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- III. All raw material to be stored only under covered shed.
- IV. PAs to ensure ZERO DISCHARGE for its process discharges.
- V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VI. Green belt and Green cover to be implemented as provided in layout plan.

3. Green Residential Project "EASTATE ECO SYMPHONY" of M/s ESTATE BUILDCON PVT. LTD., Village : Gari, Tehsil : Sahar (Bargain), Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/NCP/72093/2022).

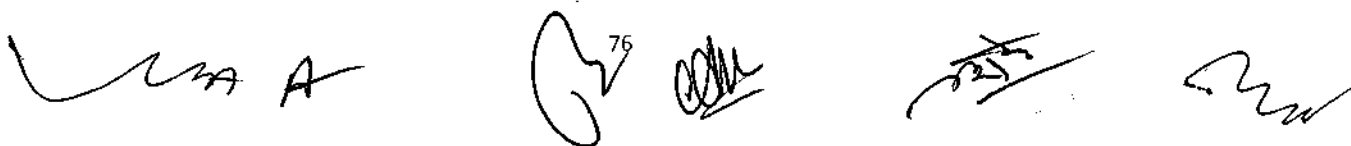
Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Green Residential Project "ESTATE ECO SYMPHONY" located at plot no. Plot Nos. 24 &25, Cheshire Home Road, Bariatu, Village - Gari, Tehsil – Ranchi Sahar (Bargain), District - Ranchi, Jharkhand by M/s Estate Buildcon Pvt. Ltd. on a plot area of 6552.79 m2. The total built up area of the project is 29955 m2. Approx.100% part of the project has already been constructed. So the project has been applied under violation case.

Salient Features of the Project :

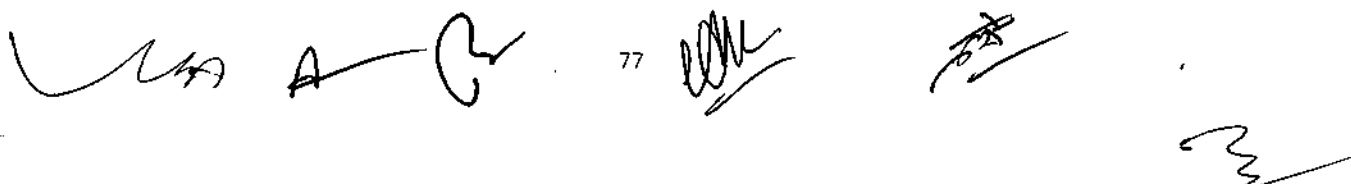
Parameters	Description
Plot Area	6552.79 sq.m.(or 1.62 acres)
Khata No.	Khata no. 135 & Plot Nos. 24 & 25



Project Cost	INR 50.24 Crores
Built-up Area	29955.79 m ²
Green Area	1411.4 sq m (@21.54% of plot area) and additional approx. 1278.1 m ² of terrace green area.
Population	720
Water Requirement	97 KLD
Fresh Water Requirement	61 KLD
Wastewater Generation	75 KLD
STP Capacity	100 KLD
Total Municipal Waste	761 kg/day
Power Requirement	1500 KVA (Jharkhand State Electricity board)
DG Sets	2 no. of DG set of Total 200 KVA
RWH Pits	06 no.
Parking	322 no.
Connecting road	Project site is well connected with road. Site abuts the adjacent road in South direction.
National Highway	NH-20(2 km, E) Adjacent road (in South Direction)
Nearest Railway Station	Ranchi junction Railway station, (6.16 km, S)
Airport	Birsa Munda Airport, (9.81 km, S)
Nearest Hospitals	Orchid medical centre (4.04 km, SW)
Nearest Water Bodies	Kanke Dam (5.20 km, E) Getalsud Dam (10.10 km NE) Ranchi Lake (5.66 km, N) Jumar River (4 km, NE) Subarnarekha River (4.81 km SSE)

Area Summary :

Sl. no.	Description	Area (SQ M)
A.	Plot Area(B+F+G)	6,552.79
B.	Proposed Ground Coverage (@26.41% of net plot	1730.44


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	area)	
C.	Proposed FAR (@ of plot area	20673.58
D.	Non FAR (Strain case, Lift, Balcony, Ramp, Accessory Use, Parking, Basement Parking)	9282.21
E.	Built-up Area (C+D)	29955.79
F.	Ground Green Area (@21.54%)	1411.4
	Terrace green area	1278.1
	Total Green area	2689.5
G.	Total Hardscape area (Road, STP, OWC, Pool, Transformer, Main Gate, guard room, Open parking e.t.c(52.05 % of the plot area)	3410.95
H.	Highest Building (Excluding parapet)	48.1 m
I.	No of Dwelling Units	139

Block Wise Dwelling Units Details :

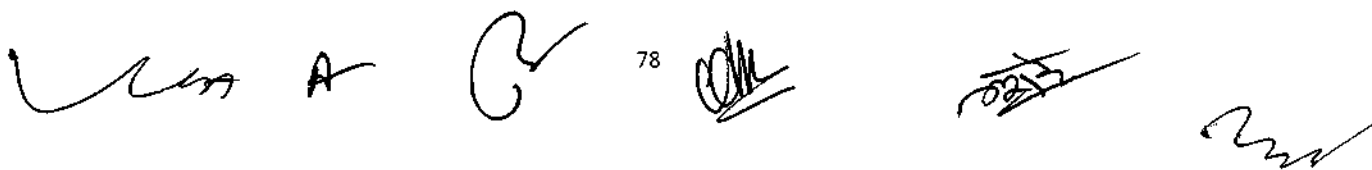
Sl. no.	Building Blocks (Residential Building)	Number of Floors	DU's
1.	Block A (B+S+GF+11Terrace Floor)	12	88
2.	Block B (B+S+GF+15Terrace Floor)	16	15
3.	Block C (B+S+GF+13Terrace Floor)	14	36
	Total		139

CO-ORDINATES :

1	Latitude	From 23°21'0.8"N	To 23°21'3.1"N
2	Longitude	From 85°17' 22.8"E	To 85°17' 26.8"E

LAND DETAILS :

1	Village - Gari, Tehsil - Ranchi Sahar (Bargain), District - Ranchi	Khata no. 135	Plot Nos. 24 & 25
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 A series of handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, the letter 'A', a checkmark, the number '78', and several other illegible signatures and initials on the right.

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
Domestic					
Residents	625	135	85	60	25
Staff	32	45	2	0.6	1.4
Visitors	63	15	1	0.7	0.3
Total Domestic Water Demand			88	61	27
Landscape	1411.4 Sq.m	3ltr/sqm	5	-	5
Fire Fighting			1	-	1
DG cooling	400KVA (1*200KVA + 1*200 KVA)	0.9 l/kVA/hr	3	-	3
Total		-	97	61	36

Category	Total Quantity (KLD)
Domestic water Req.	61
Flushing water Req.	27
Sewage generation (@80% of the fresh + 100% flushing water requirement)	75
Capacity of STP	100
Recovered water from STP (90% of Waste water)	68
1. Flushing	27
2. Landscaping	5
3. Fire Fighting	1
4. DG cooling	3
5. Construction in nearby areas/road washing/sewer e.t.c	32

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	625	0.5	313	250	63
2.	Staff	32	0.25	8	6.4	1.6

3.	Visitors	63	0.15	10	8	2
4.	Landscape waste	0.34 acres	0.2 kg/acres	1	1	-
5.	STP sludge	100 KLD	--	9	7	2
Total Waste Generated				341	272	69

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1411.4 sq m (@21.54% of plot area) and additional approx. 1278.1 m² of terrace green area, which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

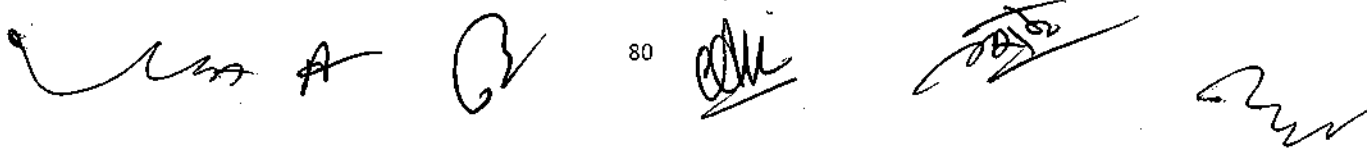
During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.


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- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 100.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 61.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 18 Nos of solar panels will be used to save around 10 % of the total power requirement).

STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 393, dated 07.02.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 148, dated 21.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Baragai, Ranchi vide letter no. 691, dated 06.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B /032818/ 291828 dated 28.03.2018

5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 413/tech dated 04.04.2018.
6	Building Plan	:	Approved Building Plan

During the presentation the following documents were sought :

- Detail calculation of green cover area.
- Revised water requirement calculation & its usage.
- Revised solid waste calculation.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- One month additional monitoring will be done during the month of March, 2022.
- Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

4. Group Housing Project of M/s Lucky Buildcon, Village : Pundag, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/71973/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels-Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Salient Features of the Project :

Parameters	Description
Plot Area	5924.99 m ² (approx. 1.46 acre)
Khata No.	Khasra No.: 336, Plot no.: 529, 530, 531, 1594 & 1595
Project Cost	INR 50 Crores
Built-up Area	23827.33 m ²
Green Area	266.5 sq m (@ 5% of balance plot area)

Handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, the letter 'A', a signature 'B', the number '82', another signature, and a signature on the right.

Population	899
Water Requirement	119 KLD
Fresh Water Requirement	82 KLD
Wastewater Generation	110.0 KLD
STP Capacity	120.0 KLD
Total Municipal Waste	443 kg/day
Power Requirement	400 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	02 no.
Parking	408 no.
Connecting road	The project site is well connected with Argora road.
National Highway	NH-75, 3.2 km, E 12.5 m road (abuts site in W direction)
Nearest Railway Station	Ranchi junction Railway station, (7.0 km, E)
Airport	Birsa Munda Airport, (7.0 km, SE)
Nearest Hospitals	Amrit Hospital (6.3 km, NNW) Raj Hospital (5.7 km, E)
Nearest Water Bodies	Ranchi Lake (5.32 km, NE) Kanke Dam (5.9 km, N)

Area Summary :

Sl. no.	Description	Area (SQ M)
1.	Plot Area	5924.99
2.	Common Plot	594.02
3.	Balance plot area (1-2)	5330.97
4.	Permissible Ground Coverage (@35% of net plot area)	2073.75
5.	Proposed Ground Coverage (@34.76% of net plot area)	2059.56
6.	Permissible FAR (@3.0 of plot area)	17774.97
7.	Proposed FAR (@2.99 of plot area)	17727.29

8.	Non FAR Area (including Basement)	6,100.04
	Basement	3234.21
	On floors	2,865.83
9.	Built-up Area	23827.33
10.	Green Area (@5% of balance plot area)	266.5
11.	Height	34.9
12.	No of Dwelling Units	168

CO-ORDINATES :





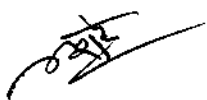

1	Latitude	From 23°21'11"N	To 23°21'12"N
2	Longitude	From 85°16' 4"E	To 85°16' 7"E

LAND DETAILS :

1	Village - Pundag, Tehsil- Ranchi	Khata No.: 336	Plot no.: 529, 530, 531, 1594 & 1595
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STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 5010, dated 22.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 765, dated 27.10.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Nagri, Ranchi vide letter no. 26, dated 30.12.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 101920/ 503583 date 04.12.2020.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 181/tech/2019 dated 22.01.2019




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5	Building Plan	:	Approved Building Plan
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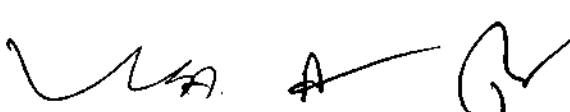



Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	840	135	114	80	34
Staff	17	45	2	1	1
Visitors	42	15	2	1	1
Total Domestic Water Demand			118	82	36
Landscape	266.5 sq m	3 l/day	1	0	1
Total		-	119	82	37

Category	Total Quantity (KLD)
Fresh water Req.	82
Flushing water Req.	37
Sewage generation (@80% of the water consumption)	110
Capacity of STP	120
Recovered water from STP (80% of Waste water)	88
6. Flushing	36
7. Landscaping	1
8. Construction in nearby areas/road washing/sewer	51

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	840	0.5	420	126	294
2.	Staff	17	0.25	4	1	3
3.	Visitors	42	0.15	7	2	5


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4.	Landscape waste	0.06 acres	0.2 kg/acres	1	0	1
5.	STP sludge	110 KLD	--	11	0	11
Total Waste Generated				443	129	314

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 266.5 sq m (@ 5% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase







- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase




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- STP of capacity i.e. 120.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 82.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 5 Nos of solar panels will be used to save around 10 % of the total power requirement). Details as follows:

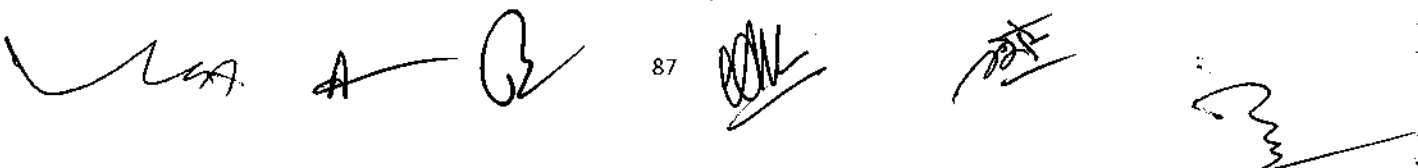
During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.



5. Affordable Housing Project "Pearl Orchid" for LIG and EWS of M/s Moti Infrastructures, Village :
 Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/71739 /2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021. issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

Salient Features of the Project :

Parameters	Description
Plot Area	6849.50 m ² (approx. 1.69 acre)
Project Cost	INR 32 Crores
Built-up Area	39388.94 m ²
Green Area	342.5sq m (@5% of plot area)
Population	1391
Water Requirement	181 KLD
Fresh Water Requirement	125 KLD
Wastewater Generation	168 KLD
STP Capacity	180 KLD
Total Municipal Waste	685 kg/day
Power Requirement	500 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	02 no.
Parking	481 no.
Connecting road	The project site is well connected with road. 12.5 m wide road abuts project site in North direction.
National Highway	NH 75 (700 m, E) 12.5 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.58 km, E)

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Airport	Birsa Munda Airport, (3.6 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) Raj Hospital (3.58 km, E)
Nearest Water Bodies	Ranchi Lake (3.29 km, NE) Dhurwa Dam (6.9 km, SSW) Kanke Dam (5.1 km, N)

Area Summary :

Sl. no.	Description	Area (SQ M)
1.	Plot Area	6849.50
2.	Surrendered for road widening	71.43
3.	Net Plot Area	6778.07
4.	Common Plot	830.52
5.	Balance plot area (1-2)	5947.54
6.	Permissible Ground Coverage (@50% of net plot area)	3389.03
7.	Proposed Ground Coverage (@34.64% of net plot area)	2348.05
8.	Permissible FAR (@3.5 of plot area)	23973.25
9.	Proposed FAR (@3.49 of plot area	23921.49
	Residential	23681.39
	Utility Building	240.01
10.	Non FAR Area (including Basement)	15,467.45
	Basement	3,891.67
	On floors	11,575.78
11.	Built-up Area	39388.94
12.	Green Area (@5% of balance plot area)	342.5
13.	Height	43.9
14.	No of Dwelling Units	260

CO-ORDINATES :

1	Latitude	From 23°21'0.8"N	To 23°21'3.1"N
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2	Longitude	From 85°17' 22.8"E	To 85°17' 26.8"E
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LAND DETAILS :





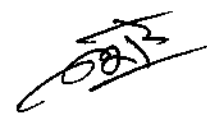

1	Village - Argora, Tehsil- Ranchi	Khata No.	Plot no.
		73	1066 & 1067
		79	1064 & 1065

STATUTORY CLEARANCES :

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 5047, dated 26.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 764, dated 27.10.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Argora, Ranchi vide letter no. 424, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatian.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/011619/364096 date 01.02.2019.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 175/tech dated 21.01.2019.
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details :

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	1300	135	176	123	53
Staff	26	45	2	1	1
Visitors	65	15	2	1	1
Total Domestic Water Demand			180	125	55
Landscape	342.5	1 l/day	1	0	1
Total		-	181	125	56




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Category	Total Quantity (KLD)
Fresh water Req.	125
Flushing water Req.	55
Sewage generation (@90% of the water consumption)	168
Capacity of STP	180
Recovered water from STP (80% of Waste water)	134
9. Flushing	55
10. Landscaping	1
11. Construction in nearby areas/road washing/sewer	78

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1300	0.5	650	195	455
2.	Staff	26	0.25	7	2	5
3.	Visitors	65	0.15	10	3	7
4.	Landscape waste	0.08 acres	0.2 kg/acres	1	0	1
5.	STP sludge	168 KLD	--	17	0	17
Total Waste Generated				685	200	485

ENVIRONMENT MANAGEMENT

Green Belt Development

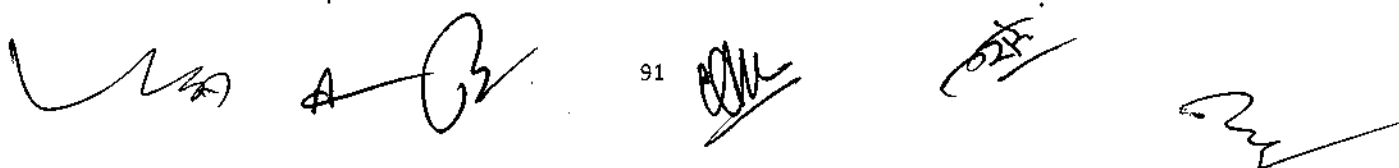
- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 342.5sq m (@5% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase



- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 180.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 125.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.
- iv. Submission of contour plan and evacuation plan.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

6. Expansion of Group Housing Project "Oak Forest" of Shri Nisith Kumar Keshari, Village : Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/71798/2022).

Name of the consultant : P & M SOLUTION, Noida

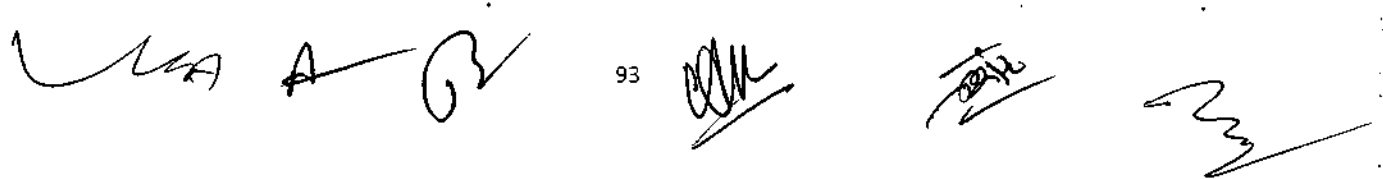



This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

ToR Application for: Residential buildings : Total built-up area of 39322.78 sq m. (Existing- 17677.45 sq.m + Proposed- 21645.33 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	10942.60 m ² (approx. 2.70 acre)
Project Cost	INR 76.14 Crores
Built-up Area	39322.78 m ²
Green Area	2252.82 sq m (23.3% of plot area)
Population	1199

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Water Requirement	163 KLD
Fresh Water Requirement	108 KLD
Wastewater Generation	133 KLD
STP Capacity	145 KLD
Total Municipal Waste	591 kg/day
Power Requirement	500 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	02 no.
Parking	274 no.
Connecting road	The project site is well connected with road. 9.14 m wide road abuts project site in North direction.
National Highway	NH 75 (770 m, E) 9.14 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.0 km, E)
Airport	Birsa Munda Airport, (3.4 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.0 Km, SE) Raj Hospital (3.3 km, ENE)
Nearest Water Bodies	Pipartoli (360 m, N) Argora Talab (660 m, ENE)

Area Summary

S. No.	Description	Area (sq m)
1.	Plot Area	10942.6
2.	Surrendered for road widening	318.72
3.	Net Plot Area	10623.88
4.	Common Plot	1459.72
5.	Balance plot area (1-2-4)	9164.16
6.	Permissible Ground Coverage (@35% of net plot area)	3718.36
7.	Total Ground Coverage (@34.67% of net plot area)	3683.14
	• Proposed Coverage Area (15.86 %)	1684.99
	• Existing Building	1998.15

	Coverage area (18.81 %)	
8.	Permissible FAR (@3.0 of plot area)	32827.80
9.	Total FAR (@2.99 of plot area) • Proposed FAR Area • Existing Building FAR Area	32689.17 16875.03 15814.14
10	Non FAR Area (including Basement) • Proposed Non FAR • Existing Non FAR	6,633.61 4,770.3 1,863.31
11.	Built-up Area • Proposed Built-up Area • Existing Built-up Area	39322.78 21645.33 17677.45
12.	Green Area (@23.3% plot area)	2552.85
13.	Height	43.75 m
14.	No of Dwelling Units	224 (117-existing +107-proposed)

CO-ORDINATES :






1	Latitude	From 23°20'52.90"N	To 23°20'58.13"N
2	Longitude	From 85°17'21.65"E	To 85°17'27.23"E

LAND DETAILS :

1	Village - Argoda, Tehsil- Ranchi	Khata No.	Plot No.
		15	2558, 2570, 2571 & 2572
		63	2564
		188	2560, 2561, 2565, 2566, 2567, 2568, 2569

STATUTORY CLEARANCES :

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2477, dated 08.09.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
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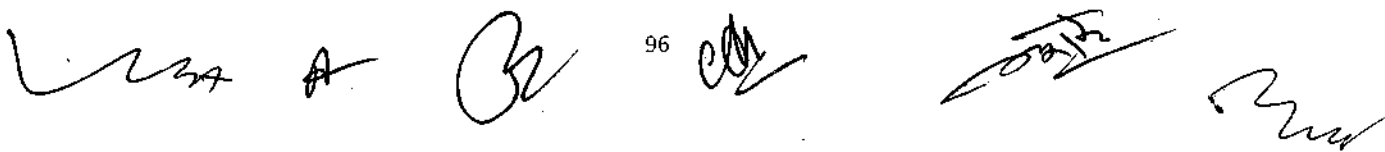


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2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 993, dated 12.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Argora, Ranchi vide letter no. 72, dated 02.03.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/062619/409087 dated 16.07.2019.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 2295/tech dated 28.08.2019.
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details

S. No.	Category	Standard	Existing				Proposed				Total			
			Population / Capacity	Water Req.	Fresh Water Req	Recycled Water Req	Population / Capacity	Water Req.	Fresh Water Req	Recycled Water Req	Water Req.	Fresh Water Req	Recycled Water Req	
1	Residents	135	585	79	55	24	535	72	51	21	151	106	45	
2	Staff/ Students	45	12	1	0.5	0.5	11	1	0.5	0.5	2	1	1	
3	Visitors	15	29	1	0.5	0.5	27	1	0.5	0.5	2	1	1	
Total Domestic Water Req.					81	56	25		74	52	22	155	108	47
4	Landscape	3 l/sq m	2552.82 sq m	8	0	8		0	0	0	8	0	8	
Total Water Req.					89	56	33		74	52	22	163	108	55

Category	Total Quantity (KLD)
Fresh water Req.	108
Flushing water Req.	47
Sewage generation (@90% of fresh water +100% flushing water)	133
Capacity of STP	145


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Recovered water from STP (80% of Waste water)	107
12. Flushing	47
13. Landscaping	8
14. Construction in nearby areas/road washing/sewer	52

Solid Waste Requirement

S. No	Category	Standard	Existing				Proposed				Total		
			Capacity	Total Waste - kg/day	Recyclable-kg/day	Non Recyclable-kg/day	Capacity	Total Waste-kg/day	Recyclable-kg/day	Non Recyclable-kg/day	Total Waste-kg/day	Recyclable-kg/day	Non Recyclable-kg/day
1	Residents	0.5	585	293	88	205	535	268	80	188	561.0	168.0	393.0
2	Staff/Students	0.25	12	3	1	2	11	3	1	2	6.0	2.0	4.0
3	Visitors	0.15	29	4	1	3	27	4	1	3	8.0	2.0	6.0
4	Landscape	0.2 kg/acre	0.6 acres	1	0	1	0	0	0	0	1.0	0.0	1.0
5	STP Sludge	--	80 KLD	8	0	8	65 KLD	7	0	7	15.0	0.0	15.0
Total waste Generated				309	90	219	282	82	200	591	172	419	

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 2252.82 sq m (23.3% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.

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- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable; non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill: It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase






- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 145.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 108.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.



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- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

7. Affordable Housing Project "Assotech Hills Sec-1" of M/s Assotech Sun Growth Abode LLP at Tagore Hill Road (Adjoining Bank Colony), Village : Boreya, Tehsil : Kanke, Dist : Ranchi, Jharkhand.

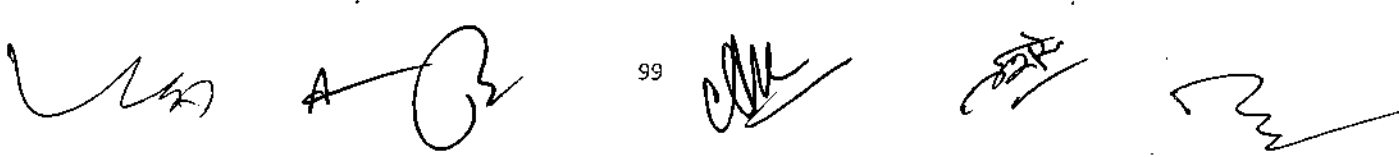
(Proposal No : SIA/JH/MIS/71943/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

ToR Application for : Residential buildings : Total built-up area of 45753.62 m² (Existing 11438.4 sq.m + Proposed 34315.2 sq.m).



Salient Features of the Project :

Parameters	Description
Plot Area	11238.20 m ² (approx. 2.78 acre)
Project Cost	INR 68.92 Crores
Built-up Area	45753.62 m ²
Green Area	2341.54 m ² (@ 20.83% of plot area)
Population	4195
Water Requirement	297 KLD
Fresh Water Requirement	212 KLD
Wastewater Generation	245.8 KLD
STP Capacity	300.0 KLD
Total Municipal Waste	1553.75 kg/day
Power Requirement	1690 KVA (Jharkhand State Electricity board)
DG Sets	2 no. of DG set of Total /60 kVA
RWH Pits	04 no.
Parking	612 no.
Connecting road	The project site is well connected with Boreya Road.
National Highway	NH-20, 4.50 km SE SH-2, 3.50 km W
Nearest Railway Station	Ranchi Railway station, 7.47 km, SW
Airport	Birsa Munda Airport, (11.39 km, S)
Nearest Hospitals	RIMS-3 (48 Km, S)
Nearest Water Bodies	Potpoto River (0.50 km, NW) Jumar River (2.50 km, N) Subarnarekha River (9.50, S)

Area Summary :

Particular	Proposed	Permissible
Plot Area	11238.20 sqm	
Net Plot Area	11238.20 sqm	--
Ground Coverage	3526.30(31.38%)	5619.01 (50%)
FAR (Floor Area Ratio)	39324.55(3.5)	39333.07 (3.5)
Built up Area	45753.62 sqm	--
Maximum Height	41 m	--

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Road Area	3881sqm	--
Stilt Parking	2571.92 sqm	
Open Parking	1753.5 sqm	
Total Parking	4325.42 sqm	2376.50 sqm
Green Belt Area	2341.54(20.83%)	2247.67(20%)
Maximum No. of Floor	S+13	--
Power/Electricity Requirement & Sources	1690 KVA	--
No. of DG sets	2x380 KVA	--
Water requirement	212.0 KLD (Fresh)	--
Sewage Treatment Plant	STP Capacity - 300 KLD	--
Estimated Population- Residential, Commercial, Floating / Visitors	4195 nos.	--

Built up area details :

Sl. No.	Floor Name	Building Name				Total Built up Area (sqm)
		A (Building)	B (Building)	C (Building)	D (Building)	
1	Ground Floor	878.28	936.96	798.33	928.94	3542.51
2	1 st Floor	894.04	882.8	750.60	1022.79	3550.23
3	2 nd Floor	806.55	882.8	736.74	808.74	3234.83
4	3 rd Floor	806.55	882.8	736.74	807.34	3233.43
5	4 th Floor	806.55	882.8	736.74	807.34	3233.43
6	5 th Floor	806.55	882.8	736.74	807.34	3233.43
7	6 th Floor	806.55	882.8	736.74	807.34	3233.43
8	7 th Floor	806.55	882.8	736.74	807.34	3233.43
9	8 th Floor	806.55	882.8	736.74	807.34	3233.43
10	9 th Floor	806.55	882.8	736.74	807.34	3233.43
11	10 th Floor	806.55	882.8	736.74	807.34	3233.43
12	11 th Floor	806.55	882.8	736.74	807.34	3233.43
13	12 th Floor	806.55	882.8	736.74	807.34	3233.43
14	13 th Floor	806.55	741.12	736.74	807.34	3091.75
15	Terrace Floor					
Total		11450.92	12271.68	10389.91	11641.21	45753.62



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CO-ORDINATES :

1	Latitude	From 23°25'05.20"N	To 23°25'07.0"N
2	Longitude	From 85°20'50.00"E	To 85°20'55.40"E

LAND DETAILS :

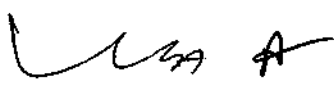


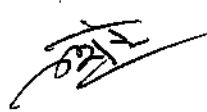

1	Village - Boreya, Tehsil- Kanke	Khata No.	Plot No.
		298	1874, 1875
		369	1877

STATUTORY CLEARANCES

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2207, dated 19.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 709, dated 13.08.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Kanke, Ranchi vide letter no. 425, dated 24.06.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/122718/358660, dated 27.12.2018.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 122/tech/2019 dated 13.01.2019
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details

Sl. No.	Description	Total Population	Per Capita Consumption (ltr/day)		Water Requirement (KLD)		
			Fresh	Flushing (21)	Domestic	Flushing	Total
1.	Apartments	2795 nos.	Fresh (65)	Flushing (21)	181.675	58.695	240.37



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2.	Club	300 nos.	Fresh (25)	Flushing (20)	7.50	6.00	13.50
3.	Floating	300nos	Fresh (5)	Flushing (10)	1.50	3.00	4.50
4.	Staff	150 nos.	Fresh (25)	Flushing (20)	3.75	3.00	6.75
5.	Permanent Population (Shopping)	150 nos.	Fresh (25)	Flushing (20)	3.75	3.00	6.75
6.	Transient Population (Shopping)	500 nos.	Fresh (5)	Flushing (10)	2.50	5.00	7.50
7.	Filter Backwash				6.00		6.00
8.	Makeup Water for Swimming Pool				5.00		5.00
9.	Horticulture					5.86	5.86
TOTAL					211.675	84.55	296.23
					≈ 212	≈ 85	≈ 297

Details	Water (KLD)
Water requirement for domestic purpose	212.0
Wastewater generated from domestic use (@ 80% of domestic water requirement)	160.8
Water requirement for Flushing Purpose	85.0
Wastewater generated from Flushing (@ 100% of flushing requirement)	85.0
Total Wastewater generated	160.8+85 = 245.8 KLD
STP Capacity (by adding 20% as per MoEF)	294.8
STP Capacity proposed (STP Layout design is attached in Annexure-3)	300.0 KLD

Solid Waste Requirement

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	2795 @ 0.45 kg/day	1257.75
2.	Floating Population	300 @ 0.15 kg/day	45.0
3.	Others (Club House, Staff, Shopping)	1100 @ 0.15 kg/day	165.0
3.	STP sludge		86.0
TOTAL SOLID WASTE GENERATED			1553.75kg/day

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 2341.54 m² (@ 20.83% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

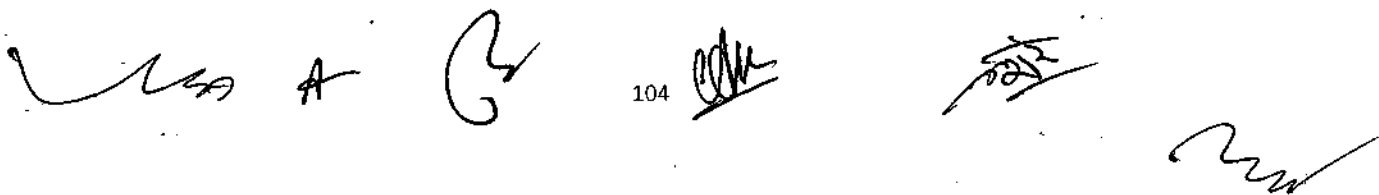
- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

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- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 300.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 212.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management



- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

- Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 21 Nos of solar panels will be used to save around 10 % of the total power requirement).

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.




8. Affordable Housing Project "Assotech Hills Sec-2" of M/s Assotech Sun Growth Abode LLP at Tagore Hill Road (Adjoining Bank Colony), Village : Boreya, Tehsil : Kanke, Dist : Ranchi, Jharkhand

(Proposal No : SIA/JH/MIS/71935/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM.no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

ToR Application for : Residential buildings : Total built-up area of 65517.06 m² (Existing 3275.85 sq.m + Proposed 62241.20 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	18857.11 m ² (approx. 4.66 acre)
Project Cost	INR 165 Crores
Built-up Area	65517.06 m ²
Green Area	3500.0 m ² (@ 20.16 % of plot area)
Population	5200
Water Requirement	375.7 KLD
Fresh Water Requirement	276.0 KLD
Wastewater Generation	314.9 KLD
STP Capacity	350.0 KLD
Total Municipal Waste	1923.5 kg/day
Power Requirement	2720 KVA (Jharkhand State Electricity board)
DG Sets	02 no. of DG set of Total 1130 KVA
RWH Pits	05 no.
Parking	926 no.
Connecting road	The project site is well connected with Boreya Road.

National Highway	NH-20, 4.50 km SE SH-2, 3.50 km W
Nearest Railway Station	Ranchi Railway station, 7.47 km, SW
Airport	Birsa Munda Airport,(11.39 km, S)
Nearest Hospitals	RIMS-3 (48 Km, S)
Nearest Water Bodies	Potpoto River (0.50 km, NW) Jumar River (2.50 km, N) Subarnarekha River (9.50, S)

Area Statement :

Particular	Proposed	Permissible
Plot Area	18857.11 sqm	
Net Plot Area	18857.11 sqm	--
Ground Coverage	6387.79sqm (36.8 %)	--
FAR (Floor Area Ratio)	3.47	3.50
Built up Area	65517.06 sqm	--
Maximum Height	49 m	--
Road Area	1514.2 sqm	--
Stilt Parking	4749.24 sqm	
Open Parking	5954.65 sqm	
Total Parking	10703.89 sqm	
Green Belt Area	3500.0 sqm (20.16 %)	3471.3 sqm (20 %)
Maximum No. of Floor	S+16	--
Power/Electricity Requirement & Sources	2720 KVA	--
No. of DG sets	1x750 KVA and 1x380 KVA	--
Water requirement	276.0 KLD (Fresh)	--
Sewage Treatment Plant	STP Capacity - 350 KLD	--
Estimated Population- Residential, Commercial, Floating/visitors	5200 nos.	--

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Built up Area Details

Sl. No.	Floor Name	Building Name					Total Built up Area (sqm)
		E (Building)	H (Building)	G (Building)	F (Building)	Club House	
1	Ground Floor	53.86	774.28	34.77	102.62	410.98	1376.51
2	1 st Floor	768.80	1207.72	581.46	1909.95	286.86	4754.79
3	2 nd Floor	768.80	910.65	581.46	1909.95	0.00	4170.86
4	3 rd Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
5	4 th Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
6	5 th Floor	768.81	910.66	581.46	1909.04	0.00	4169.97
7	6 th Floor	768.81	910.66	581.46	1909.04	0.00	4169.97
8	7 th Floor	768.81	910.66	581.46	1909.04	0.00	4169.97
9	8 th Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
10	9 th Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
11	10 th Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
12	11 th Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
13	12 th Floor	768.80	910.66	581.46	1909.95	0.00	4170.87
14	13 th Floor	768.81	910.66	581.46	1909.95	0.00	4170.88
15	14 th Floor	768.81	910.66	581.46	1909.04	0.00	4169.97
16	15 th Floor	768.81	0.00	581.46	1909.04	0.00	3259.31
17	16 th Floor	0.00	0.00	0.00	1909.04	0.00	1909.04
18	Terrace Floor	0.00	0.00	0.00	0.00	0.00	0.00
Total		11585.92	13820.27	8756.67	30656.36	697.84	65517.06

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CO-ORDINATES

1	Latitude	From 23°25'01.30"N	To 23°25'05.48"N
2	Longitude	From 85°21'01.10"E	To 85°21'07.00"E

LAND DETAILS

Khata no.	Plot no.
356	1955, 1864
311	1956, 1957, 1961, 1962
589	1958, 1960
61	1853, 1858
74	1856
76	1857
480	1859, 1959
237	1861, 1860
256	1867

STATUTORY CLEARANCES :

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 1050, dated 27.02.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 108, dated 06.02.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Kanke, Ranchi vide letter no. 425, dated 24.06.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/020119/368483, dated 04.02.2019.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 550/tech/2019 dated 28.02.2019
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details :

Sl. No.	Description	Total Population	Per Capita Consumption (ltr/day)		Water Requirement (KLD)		
					Domestic	Flushing	Total
1.	Apartments	3620 nos.	Fresh (65)	Flushing (21)	235.3	76.02	311.32
2.	Club	440 nos.	Fresh (25)	Flushing (20)	11.0	8.8	19.8
3.	Floating	370nos	Fresh (5)	Flushing (10)	1.85	3.7	5.55
4.	Staff	200 nos.	Fresh (25)	Flushing (20)	5.0	4.0	9.0
5.	Permanent Population (Shopping)	110 nos.	Fresh (25)	Flushing (20)	2.75	2.20	4.95
6.	Transient Population (Shopping)	420 nos.	Fresh (5)	Flushing (10)	2.1	4.2	6.3
7.	Office Population	40 nos.	Fresh (25)	Flushing (20)	1.0	0.8	1.8
7.	Swimming Pool				10.0	-	10.0
8.	Filter Backwash				7.0	-	7.0
TOTAL					276.0	99.7	375.7

Details	Water (KLD)
Water requirement for domestic purpose	276.0
Wastewater generated from domestic use (@ 80% of domestic water requirement)	215.2
Water requirement for Flushing Purpose	99.7
Wastewater generated from Flushing (@ 100% of flushing requirement)	99.7
Total Wastewater generated	215.2+99.7 = 314.9 KLD
Recycled water form STP @ 90% of wastewater generated	283.41KLD

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Solid Waste Requirement

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	3620 @ 0.45 kg/day	1629.0
2.	Floating Population	370 @ 0.15 kg/day	55.5
3.	Others (Club House, Staff, Shopping)	1220 @ 0.15 kg/day	183.0
3.	STP sludge		56.0
TOTAL SOLID WASTE GENERATED			1923.5 kg/day

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 3500.0 m² (@ 20.16 % of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

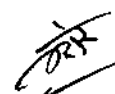


- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase



- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Laborers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 350.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 276.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 34 Nos. of solar panels will be used to save around 10 % of the total power requirement).

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

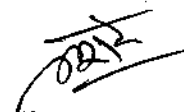
- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.





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9. Expansion of Group Housing Project "Oak Elegance" of M/s Nisith Keshari Constructions Pvt. Ltd. (NKCPL), Village : Pundag, Thana : Pundag, Thana No. : 288, Dist : Ranchi, Jharkhand.
(Proposal No : SIA/JH/MIS/72098/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

ToR Application for : Residential buildings: Total built-up area of 52485.98 sqm (Existing 18370.093 sq.m + Proposed 34115.887 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	12994.90 m ² (approx. 3.21 acre)
Project Cost	INR 45 Crores
Built-up Area	52485.98 m ²
Green Area	1313.24 sq m (@ 11.4% of balance plot area)
Population	1795
Water Requirement	226 KLD
Fresh Water Requirement	157 KLD
Wastewater Generation	208 KLD
STP Capacity	220 KLD
Total Municipal Waste	858 kg/day
Power Requirement	1000 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 500 KVA
RWH Pits	04 no.
Parking	707 no.
Connecting road	Project site is well connected with road. 18.5 m wide road abuts project site in South direction.
National Highway	NH 75 (2.8 km, E) 18.5 m road (abuts site in S direction)

Nearest Railway Station	Ranchi junction Railway station, (6.3 km, E)
Airport	Birsa Munda Airport, (6.7 km, SE)
Nearest Hospitals	Vivekanda Hospital (4.3 km, NE) Santevita Hospital (5.3 km, E)
Nearest Water Bodies	Kanke Dam (4.6 km, NNE) Dhurwa Dam (7.2 km, SSW)

Area Summary :

Sl. no.	Description	Area (SQ M)
1.	Plot Area	12994.9
2.	Surrendered for road widening	113.26
3.	Net Plot Area	12881.64
4.	Common Plot	1414.88
5.	Balance plot area (1-2-3)	11466.62
6.	Permissible Ground Coverage (@35% of net plot area)	4508.53
7.	Proposed Ground Coverage (@26.48% of net plot area)	3411.04
8.	Permissible FAR (@3.0 of plot area)	38984.29
9.	Proposed FAR (@2.99 of plot area	38827.97
	Residential FAR	38139.59
	Commercial FAR	172.35
	Special FAR (School = 78.81 + Utility building = 165.33)	244.14
10.	Non FAR Area (including Basement)	13658.01
	Basement	8098.63
	On floors	5559.38
11.	Built-up Area	52485.98
12.	Green Area (@11.4% of balance plot area)	1313.24
13.	Height	59.9 m
14.	No of Dwelling Units	321

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BUILT UP AREA DETAILS

Building	No. of same Bldg	Gross Built up area (Sq.m)	Deductions from gross BUA (Area in Sq.m)	Total Built up area (Sq.m)
			Cutout	
A (Bungalow)	1	2380.53	114.37	2266.16
A (Block A)	1	18675.54	89.56	18585.98
A (Block B)	1	13527.26	113.23	13414.03
A (Block C)	1	18219.81	0.00	18219.81
Grant total	4	52803.14	317.16	52485.98

CO-ORDINATES

1	Latitude	From 23°21'26"N	To 23°21'31"N
2	Longitude	From 85°16' 31"E	To 85°16'34"E

LAND DETAILS :

1	Village- Pudang, Thana -Pudang, Block-Nagadi, District-Ranchi	Khata No.	Plot no.
		34	898
155	899, 900, 903		
139	902		
230	906, 908		

STATUTORY CLEARANCES :

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2022, dated 23.06.2018 certified that the distance of notified forest is 1150 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 273, dated 18.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Nagri, Ranchi vide letter no. 308, dated 17.02.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatian.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/112317/

		263416 dated 28.11.2017.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 128/tech dated 06.02.2018.
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	1605	135	217	152	65
Staff/Students	58	45	3	2	1
Visitors	132	15	4	3	1
Total Domestic Water Demand			224	157	67
Landscape	1313.24sq m	3 l/day	2	0	2
Total		-	226	157	69

Category	Total Quantity (KLD)
Fresh water Req.	157
Flushing water Req.	67
Sewage generation (@80% of the waterconsumption)	208
Capacity of STP	220
Recovered water from STP (80% of Waste water)	167
1. Flushing	67
2. Landscaping	2
3. Construction in nearby areas/roadwashing/sewer	98

Solid Waste Requirement

S. No.	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1605	0.5	802.5	481.5	321
2.	Staff	58	0.25	14.5	8.7	5.8

3.	Visitors	132	0.15	19.8	11.88	7.92
4.	Landscape waste	0.32 acres	0.2 kg/acres	0.064	0.064	0
5.	STP sludge	208 KLD	--	21	21	0
Total Waste Generated				858	523	335

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1313.24 sq m (@ 11.4% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

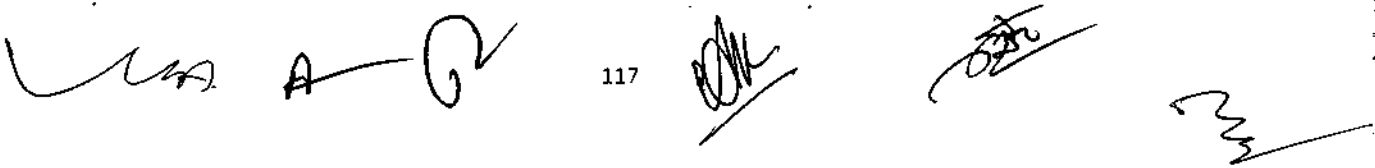
During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.


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During Operation Phase

- STP of capacity i.e. 220.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 157.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 12 Nos of solar panels will be used to save around 10 % of the total power requirement).

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

10. Affordable Housing for LIG and EWS "Global Platinum Argora Ranchi" of M/s Global Infra, Village : Argora, Tehsil : Argora, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/ 71870 /2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8 (a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

ToR Application for : Residential buildings: Total built-up area of 35916.12 sq m. (21549.67 sq m. + 14366.44 sq.m).

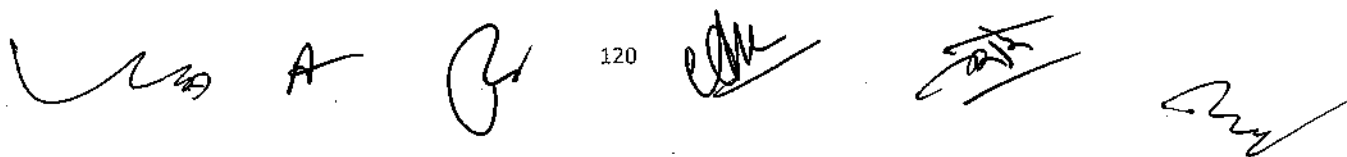
Salient Features of the Project :

Parameters	Description
Plot Area	8180.41 m ² (approx. 2.021 acre)
Project Cost	INR 40 Crores
Built-up Area	35916.12 m ²
Green Area	713 sq m (@10% of balance plot area)
Population	1595
Water Requirement	207 KLD
Fresh Water Requirement	143KLD
Wastewater Generation	191.0 KLD
STP Capacity	210.0 KLD
Total Municipal Waste	784 kg/day
Power Requirement	600 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 250 KVA
RWH Pits	03 no.
Parking	475 no.
Connecting road	The project site is well connected with road. 12.5 m wide road abuts project site in North direction.
National Highway	NH-75, 1.0 km E 12.5 m road (abuts site in N direction)

Nearest Railway Station	Ranchi junction Railway station, (4.9 km, E)
Airport	Birsa Munda Airport, (4.6 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) Raj Hospital (3.58 km, E)
Nearest Water Bodies	Ranchi Lake (3.29 km, NE) Dhurwa Dam (6.9 km, SSW) Kanke Dam (5.1 km, N)

Area Summary :

S. No.	Description	Area (sq m)
1.	Plot Area	8180.41
2.	Surrendered for road widening	209.89
3.	Net Plot Area	7970.52
4.	Common Plot	840.47
5.	Balance plot area (1-2-3)	713005
6.	Permissible Ground Coverage (@50% of net plot area)	3985.26
7.	Proposed Ground Coverage (@34.85% of net plot area)	2777.44
8.	Permissible FAR (@3.5 of plot area)	28631.43
9.	Proposed FAR (@3.24 of plot area	26533.74
	Residential FAR	26067.14
	Amenity building	465.60
10.	Non FAR Area (including Basement)	9,382.38
	Basement	2920.89
	On floors	6461.49
11.	Built-up Area	35916.12
12.	Green Area (@10% of balance plot area)	713
13.	Height	42.4
14.	No of Dwelling Units	298


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CO-ORDINATES

1	Latitude	From 23°21'2.99"N	To 23°21'7.72"N
2	Longitude	From 85°17' 14.26"E	To 85°17'16.24"E

LAND DETAILS :

Khata no.	Plot no.
41	818,
88	773, 774,
141	790
79	806
77	819

STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 5057, dated 28.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 1013, dated 16.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Argora, Ranchi vide letter no. 423, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/011217/190884 dated 16.01.2017.
5	Building Plan	:	Approved Building Plan

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	1490	135	201	141	60
Staff	30	45	2	1	1

Visitors	75	15	2	1	1
Total Domestic Water Demand			205	143	62
Landscape	713 sq m	3 l/day	2	0	2
Total		-	207	143	64

Category	Total Quantity (KLD)
Fresh water Req.	143
Flushing water Req.	62
Sewage generation (@80% of the water consumption)	191
Capacity of STP	210
Recovered water from STP (80% of Waste water)	152
15. Flushing	62
16. Landscaping	2
17. Construction in nearby areas/road washing/sewer	88

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1490	0.5	745	224	521
2.	Staff	30	0.25	8	2	5
3.	Visitors	75	0.15	11	3	8
4.	Landscape waste	0.18 acres	0.2 kg/acres	1	0	1
5.	STP sludge	190 KLD	--	19	0	19
Total Waste Generated				784	229	554

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 713 sq m (@10% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.

WMA A

C

CCM

COA

[Signature]

- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase



- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 210.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 143.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.




- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 7 Nos of solar panels will be used to save around 10 % of the total power requirement).

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

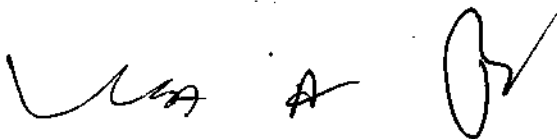
11. Group Housing Project "Hope Residency" of M/s Home Line Buildcon, Village – Argora, Tehsil – Ranchi, Dist – Ranchi, Jharkhand.

(SIA/JH/MIS/71782/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.









ToR Application for : Residential buildings: Total built-up area of 21468.21sq m. (Existing 8587.284 sq.m + Proposed 12880.92 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	4768.40 m ² (approx. 1.18 acre)
Project Cost	INR 75 Crores
Built-up Area	21468.21 m ²
Green Area	238.42 sq m (@ 5% of balance plot area)
Population	968
Water Requirement	125 KLD
Fresh Water Requirement	87 KLD
Wastewater Generation	115 KLD
STP Capacity	120 KLD
Total Municipal Waste	484 kg/day
Power Requirement	400 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	07 no.
Parking	383 no.
Connecting road	The project site is well connected with road. Site abuts the road in West direction which connects to 9 m road at distance of 800 m in South direction.
National Highway	NH 75 (1.0 km, E) 9 m road (800 m, S)
Nearest Railway Station	Ranchi junction Railway station, (4.7 km, E)
Airport	Birsa Munda Airport, (3.5 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) Raj Hospital (3.6 km, ENE)
Nearest Water Bodies	Argoda Talab (900 m, NE) Ranchi Lake (3.5 km, NE) Dhurwa Dam (6.3 km, SW) Kanke Dam (5.1 km, N)

Area Summary

S. No.	Description	Area (sq m)
1.	Plot Area	4768.4
2.	Common Plot	508.01
3.	Balance plot area (1-2)	4260.39
4.	Permissible Ground Coverage (@35% of net plot area)	1668.94
5.	Proposed Ground Coverage (@32.76% of net plot area)	1562.28
6.	Permissible FAR (@3.5 of plot area)	16689.4
7.	Proposed FAR (@3.47 of plot area Residential Basement	16549.50 16527.2 22.3
8.	Non FAR Area (including Basement) Basement On floors	4,918.71 2270.7 2648.01
9.	Built-up Area	21468.21
10.	Green Area (@5% of plot area)	238.42
11.	Height	40.75
12.	No of Dwelling Units	181

CO-ORDINATES :

1	Latitude	From 23°20'59.10"N	To 23°21'03.90"N
2	Longitude	From 85°17' 16.6"E	To 85°17'20.40"E

LAND DETAILS

Khata no.	Plot no.
27	816
79	806, 807
197	808

STATUTORY CLEARANCES :

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 4530, dated 12.11.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 1007, dated 16.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated

		in any ESZ.
3	CO certificate	: The CO, Argora, Ranchi vide letter no. 422, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/102318/344271 dated 29.10.2018.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 276/tech dated 31.01.2019.
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	905	135	122	86	36
Staff	18	45	1	0.5	0.5
Visitors	45	15	1	0.5	0.5
Total Domestic Water Demand			124	87	37
Landscape	238.42	3 l/day	1	0	1
Total		-	125	87	38

Category	Total Quantity (KLD)
Fresh water Req.	87
Flushing water Req.	37
Sewage generation (@90% of the fresh + 100% flushing water requirement)	115
Capacity of STP	120

Recovered water from STP (80% of Waste water)	92
18. Flushing	37
19. Landscaping	1
20. Construction in nearby areas/road washing/sewer	54

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	905	0.5	453	136	317
2.	Staff	18	0.25	5	2	3
3.	Visitors	45	0.15	8	2	6
4.	Landscape waste	0.06 acres	0.2 kg/acres	1	0	1
5.	STP sludge	115 KLD	--	17	0	17
Total Waste Generated				484	140	344

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 238.42sq m (5% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

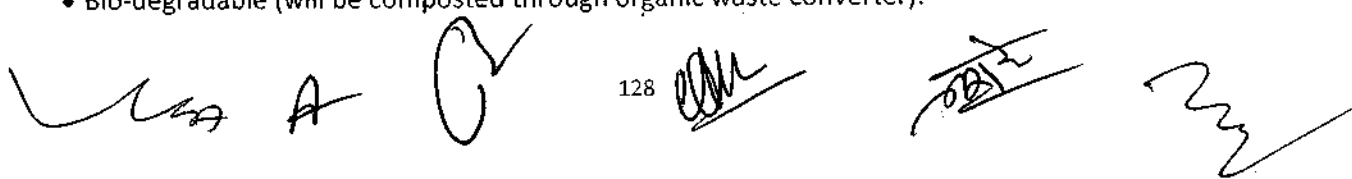
Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).



- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of rain water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 120.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 87.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.




Energy conservation

- Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 5 Nos of solar panels will be used to save around 10 % of the total power requirement).

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

The PAs have submitted the above required documents.

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Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

12. Smart Township Project of M/s Central Coalfield Ltd. through NBCC (India) Ltd., Village – Honhe, Tehsil – Tandwa, Dist – Chatra, Jharkhand.

(SIA/JH/MIS/184650/2020)

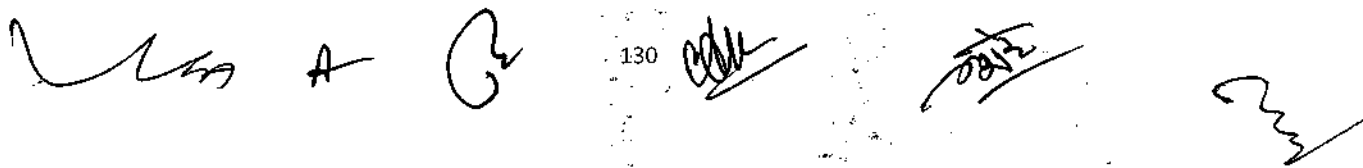
Project Category: 8 (A) Category B2 – Application for Environment Clearance

Ec Application For: Smart Township Project: The total plot area of the project site is 71 Acres (28.73 Ha or 287360 Sqm) and built-up area of the project will be 1,39,064.26 Sq m

Name of the consultant: P & M Solution, Noida

PROJECT and LOCATION Details:

Parameters	Description
Plot Area	287360 sq m (71 acres)
Project Cost	INR 488.23 Crores
Built-up Area	139064.26 sq m
Green Area	92372 sq m
Population	9069
Water Requirement	1516 KLD
Fresh Water Requirement	670 KLD
Wastewater Generation	891 KLD
STP Capacity	1000 KLD
Total Municipal Waste	3760 kg/day
Power Requirement	6000 kVA (Jharkhand State Electricity board)
DG Sets	1500 kVA
RWH Pits	30 no.
Parking	2-wheelers: 1056, Cars: 394
Connecting road	Project site is well connected with road. Site abuts the



	adjacent road in East direction.
National Highway	NBCC Road (divides site in 2 parts) Adjacent road (in East Direction)
Nearest Railway Station	Khalri railway station (27 km, S)
Airport	Birsa Munda Airport (74 km, SE).
Nearest Hospitals	Shivam Hospital (20.5 km, SW)
Nearest Water Bodies	Pond (low lying area-within the site and will be retained) Pond Outside Project Site (low lying area abuts NE boundary of site and will be retained) Nalla (Abuts site in West Direction)

CO-ORDINATES

1	Latitude	23°53'41.41"N
2	Longitude	84°58'44.72"E

Khata no. and Plot no. of the project :

Khata no.	Plot no.
1	801
2	730,732,734,784,785
4	702
8	602,660,667,670,671,682,696,709,803,805
9	790
11	727,729,740
12	710,719,720,726,742,744,757,780,794,802,804
14	786
15	748,781,791
16	708,738,749
19	574,683,718,725,728,754,787,789
22	644,739,753,765
30	731,800
32	674,689,701,752,755,777,793,797,
33	658,659,686
35	669,
38	672,679,688,745,773,783
40	666,681,746
41	596,687,694,747,774
43	769







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44	690
45	665,678,699,750
46	698,741,770,771,776
47	595,645,661,663,700,705,751
48	673,693,775
53	766
55	583,664,685,716,759,
56	760,761,763
60	581,715
61	573,654,662,684,695,703,704,706,713,714,717,764
62	582,711,733,737,788
64	655,657,668,762,767
65	712
83	758,782
84	578,580,603,643,656,675,691,692,697,736,743,743,756,768,778,779,792,795,796,798, 799,806,807
86	735

STATUTORY CLEARANCES

1	DFO Forest Distance	: DFO, Chopra ^{South} Division vide letter no. 2947, dated 21.12.2021 certified that the distance of reserved / protected forest from plot no. 572, 573, 574, 578, 580, 582, 583, 595 & 596 is 0 m (Zero) from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Hazaribagh Division vide letter no. 2063, dated 07.12.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Tandwa ^{Chopra} vide letter no. 926, dated 08.12.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
4	AAI NOC	: Height clearance from Airports Authority of India vide application no RANC/EAST/B/121020/ 515594 dated 18.12.2020.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide memo no. 2850/tech/2020 dated 23.12.2020.
6	Permission from CGWA	: Will be obtained

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement- KLD	Fresh Water Requirement- KLD	Recycled Water requirement- KLD
Domestic					
Residents	5970	135	806	564	242
Inpatients	34	340	12	8	4
Staff and Students	1546	45	70	49	21
Visitors	1397	30	42	29	13
Guests	156	180	28	20	8
Total Domestic Water Demand			958	670	288
Landscape	92372 sq m	6 l/day	555	0	555
Road Washing & Misc	--	--	3	0	3
Total			1516	670	846

Category	Total Quantity (KLD)
Fresh water Req.	670
Flushing water Req.	288
Sewage generation (@90% of the fresh water consumption + 100% flushing water)	891
Capacity of STP	1000
Recovered water from STP (80% of Waste water)	846
1. Flushing	288
2. Landscaping	555
3. Road Washing & Misc	3

Solid Waste Requirement

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Handwritten signatures and initials

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Compostable (Kg/day)	Recyclable (kg/day)	Inert Waste (kg/day)
1.	Residents	5970	0.5	2985	1791	896	298
2.	Inpatients	34	0.5	17	10	5	2
3.	Staff	1546	0.25	387	232	116	39
4.	Visitors	1322	0.15	198	119	60	19
5.	Guests	156	0.5	78	47	24	7
6.	Landscape waste	22.83	0.2	5	5	0	0
7.	STP sludge	891 KLD	--	90	90	0	0
Total Waste Generated				3760	2294	1101	365

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 92372 m² (@49.5% of open area/32.1 % of plot area which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Urban Standard Plantation norms and CPCB guidelines.
- Greenery around boundary wall is proposed

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).

- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction laborers.
- Generated waste water will be collected through tankers and dispose to STP for treatment or septic tanks will be provided which will be evacuated regularly through authorized vendors

During Operation Phase

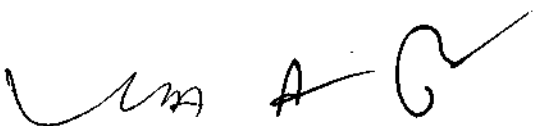
- STP of capacity i.e. 1000 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area. A grid connected solar PV plant of capacity 300 KWp will be provided at the site. Other than this 70 nos of solar street lights will be provided at site






During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Details of energy conservation.
- iii. Submission of contour plan and evacuation plan.
- iv. Revised water requirement calculation & its usage.
- v. Revised EMP & Monitoring budget during construction & operation phase.
- vi. Revised solid waste calculation.
- vii. Justification of increase noise level.
- viii. Details of rain water harvesting & its usage.
- ix. Undertaking regarding safety barrier of 7.5 m from reserved / protected forest site for the construction activity.

The PAs have submitted the above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Smart Township Project of M/s Central Coalfield Ltd. through NBCC (India) Ltd., Village – Honhe, Tehsil – Tandwa, Dist – Chatra, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith the following specific conditions :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- III. All raw material to be stored only under covered shed.
- IV. PAs to ensure ZERO DISCHARGE for its process discharges.
- V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VI. Green belt and Green cover to be implemented as provided in layout plan.

13. Bhuska Stone Deposit Project of Sri Suresh Kumar Tanwani, Village – Bhuska, Thana : Pakur, Dist. – Pakur, Jharkhand (2.54 Ha).

(Proposal No. SIA/JH/MIN/68224/2024).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity- 27578 cum/annum or 82734 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 20.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Bhuska Stone Deposit
2	Lessee:	: M/s Sri Suresh Kumar Tanwani S/o Late Suraj Lal Tanwani At Village –Sindhipara Thana – Pakur , State – Jharkhand.
3	Lease Address	: Village – Bhuska, Thana - Pakur, District – Pakur, State –Jharkhand.
4	Lease Area	: 2.54 ha Acres- 6.27Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 30 Lakhs
7	EMP Budget	: Capital: 5.30 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 275851 cum Tonnes: 827553 tons
11	Mine Life	: 10 years
12	Man power	: 30
13	Water Requirement	: 13.10 KLD (Drinking: 0.30 KLD, Dust Suppression: 5.60 KLD, Plantation: 7.20 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai River, 7.50 km, NW direction
18	Nearest Habitation	: Bhuska, 0.40 km
19	Nearest Rail Station	: Pakur Railway station, approx. 4.70 km
20	Nearest Air Port	: Kazi Nazrul Islam Airport, Durgapur, West Bengal, approx. 123.30 km.
21	Nearest Forest	: Dhangora Pahar Protected Forest, Approx. 6.50 km. in W direction. Dharni Pahar Protected Forest, Approx. 7.50 km. in WSW direction. Protected Forest near Mohanpur village, Approx. 3.70 km. in SSE direction.
22	Road & Highways	: NH-114A, Approx. 3.50 km. in N direction. SH-7, Approx. 8.40 km. in SE direction. NH-34, Approx. 13.40 km. in NE direction.

CO-ORDINATES

1	Latitude	From 24°36'20.31"N	To 24°36'27.51"N
2	Longitude	From 87°49'13.46"E	To 87°49'22.92"E

LAND DETAILS

Khata no.	Plot no.
8	563, 564, 565, 566, 567, 568, 569, 570, 573, 574, 575, 576
11	843, 844, 845, 846
17	851, 854
24	650/P
26	861/P
31	856, 857, 858, 859, 860
34	850

STATUTORY CLEARANCES

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 923/M dated 25.06.2021
2	CO	: The CO, Pakur vide letter no. 1885 dated 12.12.2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyon & Register II.
3	DMO	: DMO, Pakur vide letter no. 1047/M, Pakur on 03-07-2021 certified that 03 leases (6.83 acre, 5.43 acre & 7.00 acre) exist within 500 m radius and total lease is 10.33 ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 569, dated 17.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division vide letter no. 790, dated 19.05.2021 certified that the distance from the nearest RF/Pf from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Pakur vide letter no. 1412, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 27-11-2020

8	Mine Plan Approval	: Vide Memo no. 1454/M on 19.08.2021
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Working Details

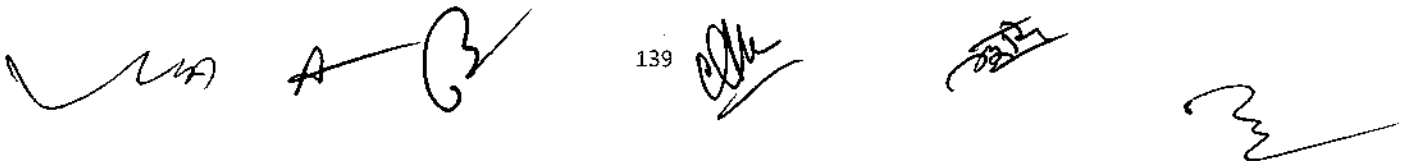
1	Mining Method	: Opencast Mechanized Mining method
2	Quarry Area	: 5 years-1.07 ha Life of Mine – 1.66 ha
3	Waste Generation	: 5 years- 6016.00 cu.m
4	Stripping Ratio	: 1: 0.09
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 46 AMSL to 51 AMSL
8	Ground Level Elevation	: 46 AMSL
9	Ultimate Working Depth	: 33 AMSL (13 mbgl)
10	Water Table	: 13 AMSL (33 m bgl)
11	Topography of Mine	: Area represents a flat ground with very less undulations in its topography.
12	Explosive Requirement	: 45 kg slurry explosive
13	Diesel/Fuel requirement	: 8 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 st	82530.0	27510.0	1974	51 mRL – 45 mRL
2 nd	82734.0	27578.0	1312	51 mRL – 45 mRL
3 rd	82410.0	27470.0	2730	51 mRL – 45 mRL
4 th	82650.0	27550.0	Nil	45 mRL – 39 mRL
5 th	82431.0	27477.0	Nil	45 mRL – 33 mRL
Total	412755.0	137585.0	6016.00	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
	Nil		1.66 (0.99 ha area)


 A collection of handwritten signatures and initials in black ink, including a large 'A', 'B', and 'C' and several illegible scribbles.

Quarry		1.07	will be converted into water reservoir and 0.67 ha area will be left as water reservoir)
Road	0.01	0.02	Nil
Safety Zone Plantation	Nil	0.88	0.88
Total	0.01	1.97	2.54
Unused Area	2.53	0.57	0.000
Total applied area	2.54	2.54	2.54

ENVIRONMENT MANAGEMENT
Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.88 ha	2200
2	Haul /Approach Road	:	0.20 km	200

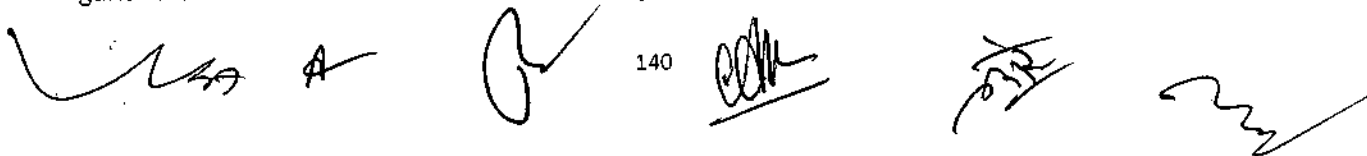
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 6016.00 cum during the plan period. During 1st & 2nd year gritty soil will be removed and temporarily dumped at the southern part of the area and in 3rd year, the soil will be dumped in south-western wing of the area and used for plantation & maintenance of road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing


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discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

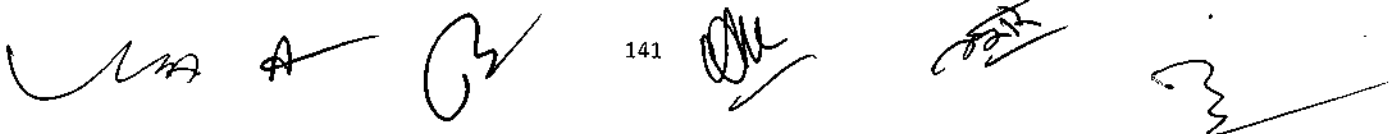



Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19,

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20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

14. Bhuska Stone Deposit Project of Sri Dinesh Tanwani, Village – Bhuska, Thana : Pakur, Dist – Pakur, Jharkhand (2.00 Ha)
(Proposal No. SIA/JH/MIN/68766/2021).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity- 14429 cum/annum or 43288 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 20.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	: Bhuska Stone Deposit	
2	Lessee:	: M/s Sri Dinesh Tanwani S/o Indra Kumar Tanwani Vill-Sindhpara, District- Pakur, State – Jharkhand.	
3	Lease Address	: Village – Bhuska, Thana - Pakur, District – Pakur, State –Jharkhand.	
4	Lease Area	: 2.0 ha	Acres-4.93 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 25 Lakhs	
7	EMP Budget	: Capital: 4.01 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.50 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 144293 cum	Tonnes: 432879 tons
11	Mine Life	: 10 years	
12	Man power	: 30	
13	Water Requirement	: 10.30 KLD (Drinking: 0.30 KLD, Dust Suppression:4.35 KLD, Plantation:5.64 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No crusher	
17	Nearest Water Body	: Torai River, 7.50 km, NW direction	
18	Nearest Habitation	: Bhuska, 0.30 km	
19	Nearest Rail Station	: Pakur Railway station, approx. 4.70 km	
20	Nearest Air Port	: Kazi Nazrul Islam Airport, Durgapur, West Bengal, approx. 123.30 km.	

21	Nearest Forest	: Dhangora Pahar Protected Forest, Approx. 6.50 km. in W' direction. Dharni Pahar Protected Forest, Approx. 7.50 km. in WSW direction. Protected Forest near Mohanpur village, Approx. 3.70 km. in SSE direction.
22	Road & Highways	: NH-114A, Approx. 3.50 km. in N direction. SH-7, Approx. 8.40 km. in SE direction. NH-34, Approx. 13.40 km. in NE direction.

CO-ORDINATES :

1	Latitude	From 24°36'22.43"N	To 24°36'28.99"N
2	Longitude	From 87°49'07.95"E	To 87°49'18.09"E

LAND DETAILS :

1	Bhuska	:	KHATA NO.	PLOT NO.
			34	528, 531 & 562
			05	550
			06	549
			08	529, 530, 532, 535, 536, 537, 554, 555, 556, 557, 558, 559, 560 & 561
			33	533, 534, 551, 552 & 553

STATUTORY CLEARANCES

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1072/M dated 06.07.2021.
2	CO	: The CO, Pakur vide letter no. 1884 dated 12.12.2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyon & Register II.
3	DMO	: DMO, Pakur vide memo no. 1145/M, Pakur on 15.07.2021 certified that there are four other leases within 500 m radius and total lease within 500 m radius from proposed project is 12.33 ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 570, dated 17.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

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5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 791, dated 19.05.2021 certified that the distance from the nearest RF/Pf from the project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no. 1412, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 07-11-2020
8	Mine Plan Approval	:	Vide Memo no. 1453/M on 19.08.2021

Working Details

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years–1.05 ha Life of Mine – 1.29 ha
3	Waste Generation	:	5 years– 3671.00 cu.m
4	Stripping Ratio	:	1: 0.08
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	46 AMSL to 49 AMSL
8	Ground Level Elevation	:	46 AMSL
9	Ultimate Working Depth	:	37 AMSL (9 m bgl)
10	Water Table	:	13 AMSL (33 m bgl)
11	Topography of Mine	:	Area represents a very gently sloping land
12	Explosive Requirement	:	45 kg slurry explosive
13	Diesel/Fuel requirement	:	8 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 st	43288.00	14429.00	1220.00	49 mRL – 43 mRL
2 nd	43285.00	14428.00	990.00	49 mRL – 43 mRL
3 rd	43288.00	14429.00	978.00	49 mRL – 43 mRL
4 th	43285.00	14428.00	483.00	49 mRL – 37 mRL
5 th	43288.00	14429.00	Nil	43 mRL – 37 mRL

Total	216434.00	72143.00	3671.00	
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Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	-	1.05	1.29 (Entire area will be converted into water reservoir)
Road	0.01	-	-
Safety Zone Plantation	-	0.71	0.71
Dump	-	0.04	-
Parapet Wall	-	0.002	-
Garland Drain	-	0.003	-
Total Area in use	0.01	1.805	2.0
Unused Area	1.99	0.195	0.000
Total Applied Area	2.0	2.0	2.0

ENVIRONMENT MANAGEMENT

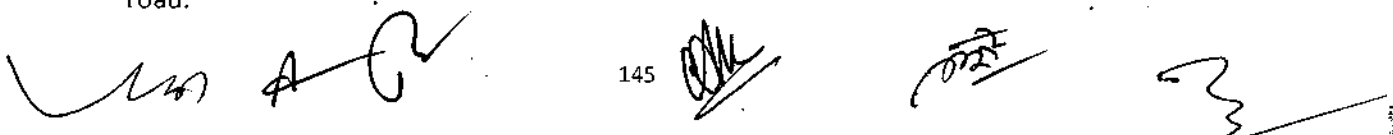
Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.71 ha	1780
2	Haul /Approach Road	:	0.10 km	100

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 3671.00 cum (dump area- 0.040 ha) during the plan period. During 1st year gritty soil will be removed and temporarily dumped at the eastern part of the area with suitable precautions like parapet wall and garland drain and in 2nd, 3rd & 4th year little amount of gritty soil will be removed and used for plantation & maintenance of road.



Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.

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- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

Day 4 : February 21, 2022 [Monday]

Consideration of Proposals

1. Namsol Brick Earth Deposit of M/s Sona Bricks, Village : Namsol, P.O. : Chota Bangurda, Thana : Boram, Dist. : East Singhbhum, Jharkhand (1.77 Ha).

(Proposal No. : SIA/JH /MIN/241922 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022

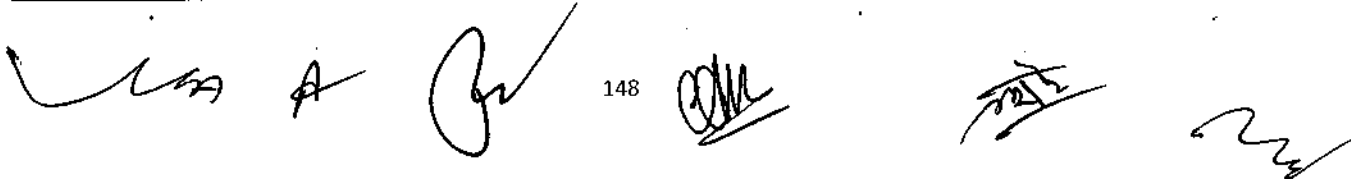
PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Namsol Brick Soil Mine
2	Lessee:	: M/S SONA BRICKS Proprietor - Sri Bipendra Singh Sri Nilkamal Mahato S/o Late K. P. Singh House No. 15, Shankosai Road No. 3, Dimna Road, Mango, P.S.- Ulidih O.P., District- East Singhbhum, State- Jharkhand
3	Lease Address	: Village: Namsol, Thana.- Boram, District- East Singhbhum, Jharkhand
4	Lease Area	: Ha:1.77 ha Acres:4.39 Acres

5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 20 Lakhs
7	EMP Budget	:	Capital: 4.65 Lakhs Recurring: 2.97 Lakh / year
8	CSR / CER Budget	:	Rs. 0.40 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 19980.00 Cu. M. Tonnes: 25974.00 MT
11	Mine Life	:	16.65 years or 17 years
12	Man power	:	12
13	Water Requirement	:	11.7 KLD (Drinking:0.12 KLD, Dust Suppression:5.60 KLD, Plantation:5.85 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No Crusher
17	Nearest Water Body	:	Sona Nadi, Approx. 3.50 km, N Side Nengsai River, Approx. 6.00 km, NE Side
18	Nearest Habitation	:	Rupsan, 0.70km
19	Nearest Rail Station	:	Nimdih Railway Station, approx. 18.20 km, W Side
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, approx. 109.10 km, W side
21	Nearest Forest	:	Hathiadih Protected Forest , Approx. 5.5 km WNW direction Lailam PF, Approx. 9.5 km S direction Protected Forest near Jharki village, Approx. 6.5 km S direction Protected Forest near Kuiani village, Approx. 8.0 km WSW direction Kherua PF, Approx. 7.0 km SSE direction
22	Road & Highways	:	SH- 6, approx., 9.60 km towards NNE direction NH-116B, approx, 9.70 km towards NNE direction NH-33, approx, 9.70 km towards Sw direction

CO-ORDINATES :

1	Latitude	From 22°57'03.66"N	To 22°57'08.67"N
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2	Longitude	From 86°18'54.56"E	To 86°19'03.98"E
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LAND DETAILS

1	Namsol	:	Khata No.	Plot no.
			7	595, 596, 597, 634, 635, 636 & 637

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The land agreement has been made on 23.08.2018
2	CO	:	The CO, Boram vide letter no. 462, dated 22/09/2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S, Khatiyan & Register II.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide letter no. 294/M dated 13.02.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1358 dated 02/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO Jamshedpur Forest Division vide letter no. 1941, dated 27/08/2021 certified that the distance of reserved / protected forest from the Project site is more than 250 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), East Singhbhum District.
7	Gram Sabha	:	On 28-08-2018
8	Mine Plan Approval	:	Vide letter no. 718/G dated 28/11/2021

Working Details

1	Mining Method	:	Open Cast manual method	
2	Quarry Area	:	5 years-0.33 ha	Life of Mine - 1.11ha
3	Waste Generation	:	5 years-Nil	Life of Mine - Nil
4	Stripping Ratio	:	1: 0.0	
5	Working Days	:	200	
6	Benches: size & No	:	1m x 1m	
7	Elevation of Mine	:	250 AMSL to 251 AMSL	

8	Ground Level Elevation	:	250 AMSL
9	Ultimate Working Depth	:	248 AMSL (2 bgl)
10	Water Table	:	240 AMSL (10 bgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	3 litre/day

Production Details

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 st	1200.00	600000	1560.00
2 nd	1200.00	600000	1560.00
3 rd	1200.00	600000	1560.00
4 th	1200.00	600000	1560.00
5 th	1200.00	600000	1560.00
Total	6000.00	3000000	7800.00






Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.33	1.11
Road	Nil	Nil	Nil
Safety Barrier	Nil	0.66	0.66
Total	Nil	0.99	1.77
Unused Area	1.77	0.78	0.000
Total Area	1.77	1.77	1.77

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
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1	Safety Zone	:	0.66ha	1650
2	Haul /Approach Road	:	0.30 km	300

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

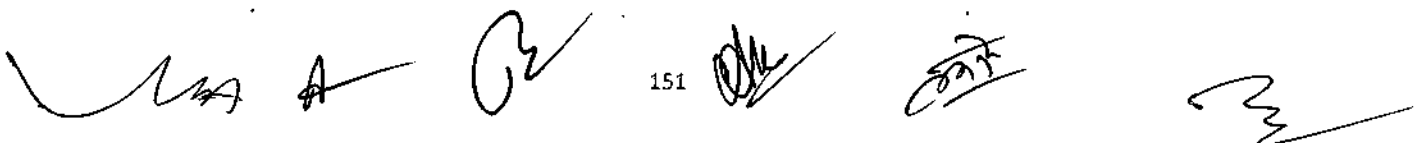
- Nil

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.



- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Namsol Brick Earth Deposit of M/s Sona Bricks, Village : Namsol, P.O. : Chota Bangurda, Thana : Boram, Dist. : East Singhbhum, Jharkhand (1.77 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

2. Bishanpur Stone Deposit of Sri Bhawesh Tanwani, Village : Bishanpur, Thana : Pakur, Dist. : Pakur, Jharkhand (2.17 Ha).

(Proposal No. : SIA/JH/MIN/ 253906/ 2022).

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 88th meeting held on 23rd, 24th, 25th, 26th & 28th June, 2021 and SEIAA, Jharkhand has approved the ToRs in 89th meeting held on 05th, 06th & 07th July, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 65, date 15.07.2021.

The final EIA / EMP [common for 03 projects namely 1. Bishanpur Stone Deposit (2.17 ha) 2. Bishanpur Stone Deposit (1.20 ha) 3. Bhuska Stone Deposit (2.20 ha)] submitted to SEIAA on 15.02.2022 and which was forwarded to SCAC on 15.02.2022.




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Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Bishanpur & Bhuska Stone cluster Mine
2	Lessee:	: Shri Bhawesh Tanwani S/o Shri Suresh Tanwani At Vill – Sindhipara, P.S. – Pakur, Dist. – Pakur, State – Jharkhand
3	Lease Address	: Village- Bishanpur, Thana-Pakur, District-Pakur, State :-Jharkhand
4	Lease Area	: 2.17 ha Acres-5.36 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs 1.4 crore (for cluster)
7	EMP Budget	: Capital: 16.78 Lakhs (for cluster) Recurring: Rs 8.89 Lakh/ year (for cluster)
8	CSR / CER Budget	: Rs 2.8 lakhs (for cluster)
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 297,676 cum Tonnes: 8,93,028 tons
11	Mine Life	: 5.00 years
12	Man power	: 30
13	Water Requirement	: 8.50 KLD (Drinking: 0.30 KLD, Dust Suppression: 5.40 KLD, Plantation: 2.8 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai Nadi, 7.0 km, NW direction
18	Nearest Habitation	: Bishanpur, 0.5 km
19	Nearest Rail Station	: Pakur Railway station, 5.0 km
20	Nearest Air Port	: Kazi Narul Islam Airport, Durgapur, 125 km
21	Nearest Forest	: Dhangora PF at Approx. 6.30 km. in W direction of mine site. Dharni Pahar PF at Approx. 7.20 km. in WSW direction of mine site. PF near Mohanpur village at Approx. 3.60 km. in SSE direction.
22	Road & Highways	: SH-7, approx. 8.6 km towards SE direction. NH-34, approx,13.3 km towards NE Direction.

CO-ORDINATES

1	Latitude	From 24°36'27.05" N	To 24°36'33.64" N
2	Longitude	From 87°49'09.14"E	To 87°49'15.29"E

LAND DETAILS

Bishanpur	:	Khata no.	Plot no.
		05	1000 & 1001
		09	998
		10	996
		19	992
		23	993 & 994
		26	997
		32	999

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1429/M, dated 27.08.2019
2	CO	:	The CO, Pakur vide letter no. 1221, dated 05.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1792/M, dated 16-10-2019 certified that 05 lease exist within 500 m radius from proposed project site. Total lease area within 500 m radius is 5.63 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1429, dated 25.07.2019 certified that the Udhwa Bird Lake Sanctuary is 41,160 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Division vide letter no. 752, dated 09.07.2019 certified that the distance of notified forest is 1060 m (distance from Durgapur Sal Forest).
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	:	On 18-07-2019
8	Mine Plan Approval	:	Vide letter no. 473/DDM on 23.10.2019
9	Baseline data	:	December, 2020 to February, 2021 by NABL accredited laboratory.

10	Public Hearing	on 27.11.2021
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Working Details

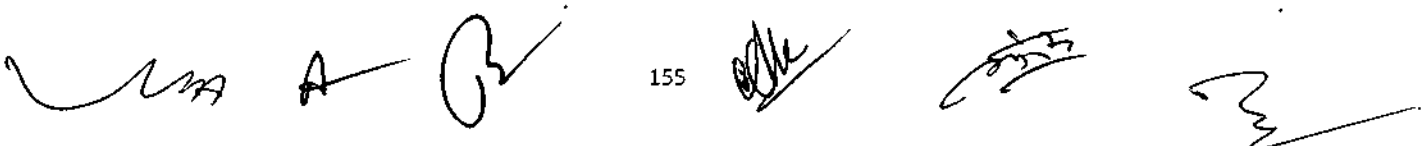
1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years- 1.61 ha Life of Mine - 1.61 ha
3	Waste Generation	:	5 years- 5945 cum
4	Stripping Ratio	:	1: 0.03
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	49 AMSL to 51 AMSL
8	Ground Level Elevation	:	49 AMSL
9	Ultimate Working Depth	:	21 AMSL (28 mbgl)
10	Water Table	:	5AMSL(max. 44 m bgl)
11	Topography of Mine	:	Area represents a gently sloping land
12	Explosive Requirement	:	50 kg slurry explosive
13	Diesel/Fuel requirement	:	9 liter/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	178615	59,538.33	4331	51 mRL - 45 mRL
2 nd	178623	59,541	690	51 mRL - 39 mRL
3 rd	178638	59,546	00	45 mRL - 33 mRL
4 th	178608	59,536	00	39 mRL - 21 mRL
5 th	178544	59,514.67	924	51 mRL - 21 mRL
Total	893028	297,676	5945	

Land Use

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
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Quarry	Nif	1.61 (including backfilling)	1.61 (including backfilling & reservoir)
Road	0.003	-	-
Safety Zone	0.560	0.56	0.56
Total	0.563	2.17	2.17
Unused Area	1.607	0.00	0.00
Lease hold area	2.17	2.17	2.17

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.56 ha	1400
2	Haul /Approach Road	:	0.43 km	430

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- About 5945 cum waste/rejects is likely to be generated during the plan period. During 1st year of mine development the mined out gritty soil will be temporarily dumped at the NE and in 5th year will be backfilled in exhausted quarry.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to

prevent water flowing into the lease area from outside or from inside the lease area to the outside

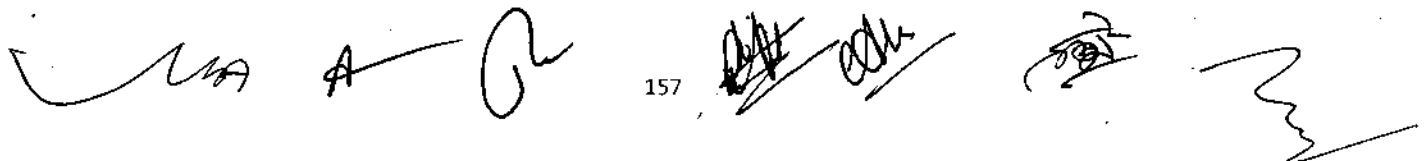
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

The bottom of the page features several handwritten signatures and stamps. From left to right, there are three distinct signatures, followed by a circular stamp containing the number '157'. To the right of the stamp are two more signatures, one of which appears to be a circular official stamp or seal, and a final signature on the far right.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bishanpur Stone Deposit of Sri Bhawesh Tanwani, Village : Bishanpur, Thana : Pakur, Dist. : Pakur, Jharkhand (2.17 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

3. Bishanpur Stone Deposit Project of Sri Pawan Kumar Tanwani, Village – Bishanpur, Thana – Pakur, Dist – Pakur, Jharkhand (1.26 Ha).

(Proposal No. SIA/JH /MIN/253987/2022).

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 88th meeting held on 23rd, 24th, 25th, 26th & 28th June, 2021 and SEIAA, Jharkhand has approved the ToRs in 89th meeting held on 05th, 06th & 07th July, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 66, date 15.07.2021.

The final EIA / EMP [common for 03 projects namely 1. Bishanpur Stone Deposit (2.17 ha) 2. Bishanpur Stone Deposit (1.26 ha) 3. Bhuska Stone Deposit (2.20 ha)] submitted to SEIAA on 15.02.2021 and which was forwarded to SEAC on 15.02.2022.

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Bishanpur & Bhuska Stone cluster Mine
2	Lessee:	: Shri Pawan Kumar Tanwani, S/o Late Sadhan Lal At Vill – Sindhipara, P.S. – Pakur, Dist. – Pakur, State – Jharkhand
3	Lease Address	: Village- Bishanpur, Thana-Pakur, District-Pakur, State :-Jharkhand
4	Lease Area	: 1.26 ha Acres- 3.11 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs 1.4 crore (for cluster)
7	EMP Budget	: Capital: 16.78 Lakhs (for cluster) Recurring: Rs 8.89 Lakh/ year (for cluster)
8	CSR / CER Budget	: Rs 2.8 lakhs (for cluster)
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 31,958 cum Tonnes: 95,874 tons
11	Mine Life	: 5.00 years
12	Man power	: 30
13	Water	: 10.70 KLD (Drinking: 0.30 KLD, Dust Suppression: 6.50 KLD, Plantation:

	Requirement	3.9 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai Nadi, 7.0 km, NW direction
18	Nearest Habitation	: Bishanpur, 0.5 km
19	Nearest Rail Station	: Pakur Railway station, 5.0 km
20	Nearest Air Port	: Kazi Narul Islam Airport, Durgapur, 125 km
21	Nearest Forest	: Dhangora PF at Approx. 6.30 km. in W direction of mine site. Dharni Pahar PF at Approx. 7.20 km. in WSW direction of mine site. PF near Mohanpur village at Approx. 3.60 km. in SSE direction.
22	Road & Highways	: SH-7, approx. 8.6 km towards SE direction. NH-34, approx,13.3 km towards NE Direction.

CO-ORDINATES

1	Latitude	From 24°36'29.58" N	To 24°36'34.55"N
2	Longitude	From 87°49'13.25"E	To 87°49'19.15"E

LAND DETAILS

	Plot no.	Khata no.
Bishanpur	14	1006 & 1007
	15	1320
	16	1010
	18	1313 & 1314
	20	1312 & 1319
	23	1321
	37	1011 & 1014
	46	1015

STATUTORY CLEARANCES

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1430/M , dated 27.08.2019
2	CO	: The CO, Pakur vide letter no. 1246, dated 10.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.
3	DMO	: DMO, Pakur vide memo no. 1791/M, Pakur on 16-10-2019 certified that 05 lease exist within 500 m radius from proposed

		project. Total lease area within 500 m radius is 5.63 ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1430, dated 25.07.2019 certified that the Udhwa Lake Bird Sanctuary is 39,390 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Division vide letter no. 755, dated 09.07.2019 certified that the distance of notified forest is 1080 m from proposed project site.
6	DSR	: This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	: On 18-07-2019
8	Mine Plan Approval	: Vide letter no. 472/DDM on 23.10.2019
9	Baseline data	December, 2020 to February, 2021 by NABL accredited laboratory.
10	Public Hearing	on 27.11.2021

Working Details

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years- 0.49 ha Life of Mine - 0.49 ha
3	Waste Generation	: 5 years- 2129 cum
4	Stripping Ratio	: 1: 0.03
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 51 AMSL to 53 AMSL
8	Ground Level Elevation	: 51 AMSL
9	Ultimate Working Depth	: 41 AMSL (10 mbgl)
10	Water Table	: 7AMSL (max. 44 m bgl)

11	Topography of Mine	:	Area represents a gently sloping land
12	Explosive Requirement	:	50 kg slurry explosive
13	Diesel/Fuel requirement	:	9 liter/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	19200	6,400	525	53 mRL – 47 mRL
2 nd	19181	6,393.67	616	53 mRL – 47 mRL
3 rd	19192	6,397.33	686	53 mRL – 47 mRL
4 th	19178	6,392.67	00	47 mRL – 41 mRL
5 th	19123	6,374.33	302	53 mRL – 41 mRL
Total	95874	31,958	2129	

Land Use

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
Quarry	Nil	0.490 (including road)	0.490 (including road & reservoir)
Road	0.002	-	-
Safety Zone	0.770	0.770 (plantation)	0.770 (plantation)
Total	0.772	1.260	1.260
Unused Area	0.488	0.000	0.000
Lease hold area	1.260	1.260	1.260

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.772 ha	1930
2	Haul /Approach Road	0.43 km	430

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- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- About 2129 cum waste/rejects is likely to be generated during the plan period. During plan period mined out gritty soil will be used for road dressing & plantation.



Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goods sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

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- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bishanpur Stone Deposit Project of Sri Pawan Kumar Tanwani, Village – Bishanpur, Thana – Pakur, Dist – Pakur, Jharkhand (1.26 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

4. Bhuska Stone Deposit Project of Sri Piyush Tanwani, Village – Bhuska, Tehsil – Pakur, Dist – Pakur, Jharkhand (2.20 Ha).

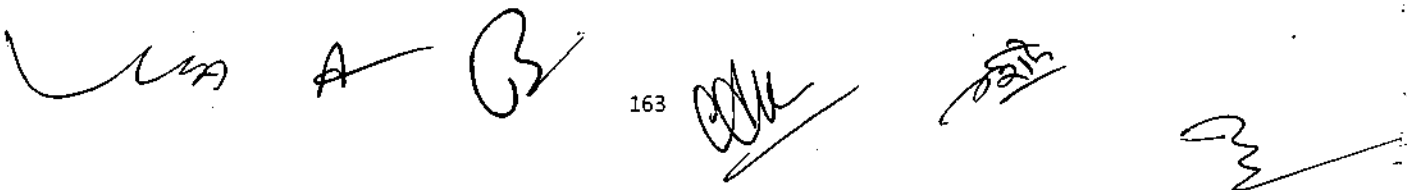
(Proposal No. SIA/JH/MIN/253926/2022).

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 88th meeting held on 23rd, 24th, 25th, 26th & 28th June, 2021 and SEIAA, Jharkhand has approved the ToRs in 89th meeting held on 05th, 06th & 07th July, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 70, date 23.07.2021.

The final EIA / EMP [common for 03 projects namely 1. Bishanpur Stone Deposit (2.17 ha) 2. Bishanpur Stone Deposit (1.26 ha) 3. Bhuska Stone Deposit (2.20 ha)] submitted to SEIAA on 15.02.2021 and which was forwarded to SEAC on 15.02.2022.

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022


 A series of handwritten signatures and initials in black ink, including a large stylized signature, the letters 'A B', and several other illegible signatures.

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	: Bishanpur & Bhuska Stone cluster Mine	
2	Lessee:	: Shri Piyush Tanwani S/o Shri Anil Tanwani R/o- Vill – Sindhipara, P.S. – Pakur, Dist. – Pakur, State – Jharkhand	
3	Lease Address	: Village- Bhuska, Thana-Pakur, District-Pakur, State :-Jharkhand	
4	Lease Area	: 2.20 ha	Acres-5.436 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs 1.4 crore (for cluster)	
7	EMP Budget	: Capital: 16.78 Lakhs (for cluster)	Recurring: Rs 8.89 Lakh/ year (for cluster)
8	CSR / CER Budget	: Rs 2.8 lakhs (for cluster)	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 281,450 cum	Tonnes: 8,44,350 tons
11	Mine Life	: 5.00 years	
12	Man power	: 30	
13	Water Requirement	: 7.0 KLD(Drinking: 0.30 KLD, Dust Suppression: 3.10 KLD, Plantation: 3.6 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No crusher	
17	Nearest Water Body	: Torai Nadi, 7.0 km, NW direction	
18	Nearest Habitation	: Bhuska, 0.4 km	
19	Nearest Rail Station	: Pakur Railway station, 5.0 km	
20	Nearest Air Port	: Kazi Narul Islam Airport, Durgapur, 125 km	
21	Nearest Forest	: Dhangora PF at Approx. 6.30 km. in W direction of mine site. Dharni Pahar PF at Approx. 7.20 km. in WSW direction of mine site. PF near Mohanpur village at Approx. 3.60 km. in SSE direction.	
22	Road & Highways	: SH-7, approx. 8.6 km towards SE direction. NH-34, approx,13.3 km towards NE Direction.	

CO-ORDINATES

1	Latitude	From 24°36'26.22" N	To 24°36'32.90"N
2	Longitude	From 87°49'19.03"E	To 87°49'25.25"E

WAA A B

eam

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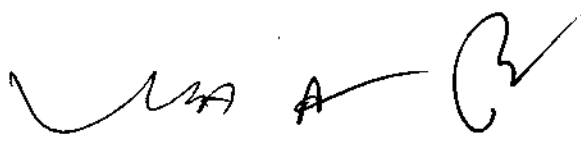

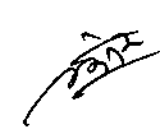

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LAND DETAILS

Bhuska	Khata no	Plot no
	10	863
	16	865, 866, 867, 871, 872, 873, 874, 875, 876 & 879
	19	864 & 870
	25	877(P) & 878(P)
	26	862, 868(P) & 869(P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1431/M, dated 27.08.2019
2	CO	:	The CO, Pakur vide letter no. 1228, dated 08-08-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide letter no. 1793/M, Pakur on 16-10-2019 certified that 03 lease area exist within 500 m radius from proposed project site and total lease area is 8.40 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1428, dated 25.07.2019 certified that the Udhwa Lake Bird Sanctuary is 39,350 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Division vide letter no. 756, dated 09.07.2019 certified that the distance of notified forest is 1020 m from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	:	On 17-07-2019
8	Mine Plan Approval	:	Vide letter no. 416/DDM on 23.09.2019
9	Baseline data	:	December, 2020 to February, 2021 by NABL accridited laboratory.
10	Public Hearing	:	on 27.11.2021


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Working Details

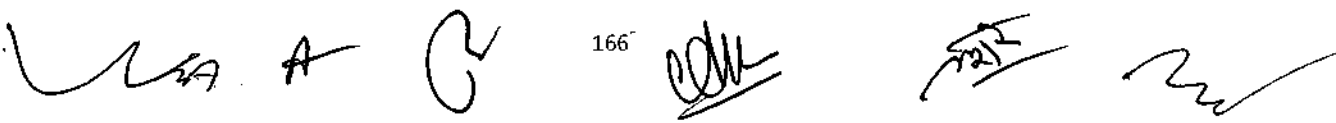
1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years- 1.706 ha Life of Mine - 1.706 ha
3	Waste Generation	:	5 years- 8129 cum
4	Stripping Ratio	:	1: 0.03
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	54 AMSL to 58 AMSL
8	Ground Level Elevation	:	54 AMSL
9	Ultimate Working Depth	:	28 AMSL (26 mbgl)
10	Water Table	:	10 AMSL (max. 44 m bgl)
11	Topography of Mine	:	Area represents a gently sloping land
12	Explosive Requirement	:	45 kg slurry explosive
13	Diesel/Fuel requirement	:	8 liter/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	168954	56,318	6240	58 mRL - 46 mRL
2 nd	168720	56,240	900	58 mRL - 46 mRL
3 rd	168741	56,247	00	46 mRL - 34 mRL
4 th	168891	56,297	989	58 mRL - 28 mRL
5 th	169044	56,348	00	52 mRL - 28 mRL
Total	844350	281,450	8129	

Land Use

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
Quarry	Nil	1.706 (including backfilling)	1.706 (including backfilling & reservoir)
Road	0.005	-	-


 A series of handwritten signatures and initials are present at the bottom of the page, including what appears to be 'USA A B', '166', and several illegible signatures.

Safety Zone	0.494	0.494	0.494
Total	0.499	2.200	2.200
Unused Area	1.701	0.000	0.000
Lease hold area	2.200	2.200	2.200

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.494 ha	1240
2	Haul /Approach Road	:	0.43 km	430

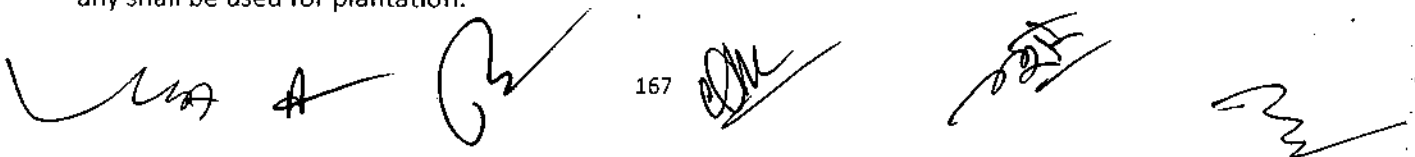
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- About 8129 cum waste/rejects is likely to be generated during the plan period. During 1st year of mine development the mined out gritty soil will be temporarily dumped at the NW part of the area & in 5th year will be backfilled in exhausted quarry.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.



- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

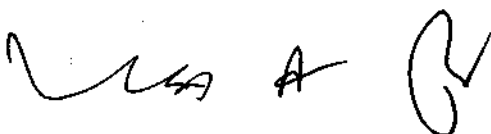
Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission.
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bhuska Stone Deposit Project of Sri Piyush Tanwani, Village – Bhuska, Tehsil – Pakur, Dist – Pakur, Jharkhand (2.20 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.



5. Dhab Salaunia Stone Deposit of M/s Jai Sriram Stone Mines, Village : Dhab Salaunia, Thana : Chauparan, Dist. : Hazaribagh, Jharkhand (0.623 Ha).

(Proposal No. SIA/JH/MIN/256005/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 7,421.0 cu.m/annum or 20,036.70 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	Dhab Salaunia Stone Deposit	
2	Lessee:	M/s Jai Sriram Stone Mines Prop. - Shri Kailash Yadav, S/o Late Todi Yadav, Village- Dhab, P.O.–Dhabtham, P.S. – Chandwara, District- Koderma, State – Jharkhand.	
3	Lease Address	Village – Dhab Salaunia, Thana- Chauparan, District – Hazaribagh, State :- Jharkhand.	
4	Lease Area	0.623 ha	Acres- 1.54 Acre
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 15 Lakhs	
7	EMP Budget	Capital: 2.86 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	Rs. 0.30 Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 37,081 cum	Tonnes: 100118.70 tons
11	Mine Life	5.0 years	
12	Man power	22	
13	Water Requirement	5.50 KLD (Drinking: 0.20 KLD, Dust Suppression: 3.50 KLD, Plantation: 2.0 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	Yes, Crusher comes under mining (area- 0.05 ha)	
17	Nearest Water Body	Margoja Nadi, 3.50 km, WNW direction Tilaiya Reservoir, 1.0 km, SW direction	
18	Nearest Habitation	Dhab Salaunia, 0.60 km	
19	Nearest Rail Station	Urwan Railway station, 6.0 km, ESE direction	
20	Nearest Air Port	Kazi Narul Islam Airport, Durgapur, 115.0 km, S direction	
21	Nearest Forest	Protected Forest near Kan pahari village, Approx. 2.50 km towards NW direction. Protected Forest near Gajure village, Approx. 4.0 km towards East direction.	

22	Road & Highways	:	NH-19, Approx. 6.5 km. in SW direction. NH-20, Approx. 5.5 km in SE direction.
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CO-ORDINATES :

1	Latitude		From 24°22'48.02" N	To 24°22'51.12" N
2	Longitude		From 85°24'40.34" E	To 85°24'45.45" E

LAND DETAILS :

Khata no.	Plot no.
15	19
16	16
18	18
39	17

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Hazaribagh vide letter no. 717/M, dated 26.10.2021
2	CO	:	The CO, Chauparan (Hazaribagh) vide letter no. 666, dated 21.08.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
3	DMO	:	DMO, Hazaribagh vide memo no. 871/M, dated 29.12.2021 certified that one lease (1.24 acre) exist within 500 m radius from proposed project site and total area is less than 5 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2055 dated 23.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Hazaribagh East Forest Division vide letter no. 6574 dated 16.11.2019 certified that the distance from the nearest RF/Pf from the project site is more than 250 m.
6	DSR	:	The DC, Hazaribagh vide letter no. 29/M, dated 12.01.2022 has informed that this project is part of District Survey Report (DSR) at Hazaribagh district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 05-10-2019

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8	Mine Plan Approval	:	Vide Memo no. 777/G on 23.11.2021
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Working Details

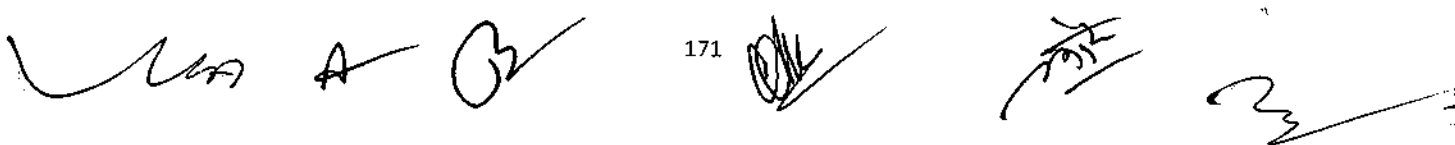
1	Mining Method	:	Opencast other than fully mechanized method (OTFM)
2	Quarry Area	:	5 years– 0.303 ha Life of Mine – 0.303 ha
3	Waste Generation	:	5 years– 3373.0 cu.m
4	Stripping Ratio	:	1: 0.08
5	Working Days	:	300
6	Benches: size & No	:	6m x 10 m
7	Elevation of Mine	:	364 AMSL to 370 AMSL
8	Ground Level Elevation	:	364 AMSL
9	Ultimate Working Depth	:	352 AMSL (12 mbgl)
10	Water Table	:	344 AMSL (20 mbgl)
11	Topography of Mine	:	Area represents a small hillock.
12	Explosive Requirement	:	Class – III (special gelatin) & Class –VI explosive (detonator, electric detonator) is used
13	Diesel/Fuel requirement	:	6 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	7419.00	20031.30	1693.0	368.67 mRL – 358 mRL
2 nd	7421.00	20036.70	363.0	368.67 mRL – 354 mRL
3 rd	7415.10	20020.77	660.0	370.0 mRL – 358 mRL
4 th	7411.80	20011.86	132.0	370.0 mRL – 352 mRL
5 th	7413.96	20017.69	525.0	368.16 mRL – 352 mRL
Total	37080.86	100118.32	3373.0	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Excavation	Nil	0.303	0.303 (0.275ha area will be left as water



			reservoir for rain water harvesting and 0.028 ha will be backfilled)
Waste dump	Nil	0.04 (comes under mining)	0.04 (comes under mining)
Road	Nil	0.01 (within quarry)	0.01 (within quarry)
Proposed crusher	Nil	0.050 (comes under mining)	0.050 (comes under mining)
Plantation (Green Belt)	Nil	0.320 (within safety zone)	0.320 (within safety zone)
Unused Area	0.623	0.000	0.000
Total	0.623	0.623	0.623

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.320 ha	800
2	Haul /Approach Road	:	0.25 km	250

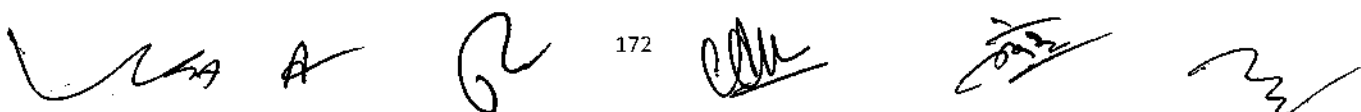
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- About 3373.00 cum waste (overburden) will be generated. The OB consist of weathered rock intermixed with soil. The generated waste will be dump temporarily in 1st and 2nd year of mining and 3rd year onwards it will be used for backfilling & rest will be used in maintenance of mine road and village road. (Dump area- 0.04 ha).

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing



discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

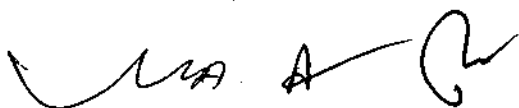
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccharoad shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.



Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Dhab Salaunia Stone Deposit of M/s Jai Sriram Stone Mines, Village : Dhab Salaunia, Thana : Chauparan, Dist. : Hazaribagh, Jharkhand (0.623 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Kusumhei Stone Mine of Smt. Bindwa Devi, Village : Kusumhei, Thana : Markacho, Dist. : Koderma, Jharkhand (0.275 Ha).

(Proposal No. SIA/JH/MIN/256375/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 1,199.52 cu.m/annum or 3,238.70 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a existing project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Kusumhei Stone Mine
2	Lessee:	: Smt. Bindwa Devi, W/O- Sri Rameshwar Yadav, Village – Kusumhei, P.O.-Nawalsahi, District- Koderma, Jharkhand.
3	Lease Address	: Village – Kusumhei, Thana- Markacho, District – Koderma, State :- Jharkhand.
4	Lease Area	: 0.275 ha Acres- 0.680 Acre
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 10 Lakhs
7	EMP Budget	: Capital: 1.49 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.20 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 11,760 cum Tonnes: 31,752 tons
11	Mine Life	: 10.0 years
12	Man power	: 16
13	Water Requirement	: 4.0 KLD (Drinking: 0.16 KLD, Dust Suppression: 1.64 KLD, Plantation: 1.86 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Sakri Nadi, Approx. 1.0 km towards SSE direction. Keso Nadi Approx. 3.80 km towards WSW direction.
18	Nearest Habitation	: Kusumhei, 0.30 km
19	Nearest Rail	: Nawalsahi Railway station, approx. 1.2 km toward WNW direction.

Station		
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 129.0 km towards S direction.
21	Nearest Forest	: Debipur PF at approx. 2.2 km towards NE direction. Kharauna PF at approx. 3.0 km towards West direction. Karmatanr PF at approx. 1.5 km towards SW direction. Kailakhandhar PF at approx. 4.0 km towards SW direction.
22	Road & Highways	: NH-20, Approx. 19.10 km. in WNW direction. SH-13, Approx. 0.85 km. in North direction.

CO-ORDINATES :

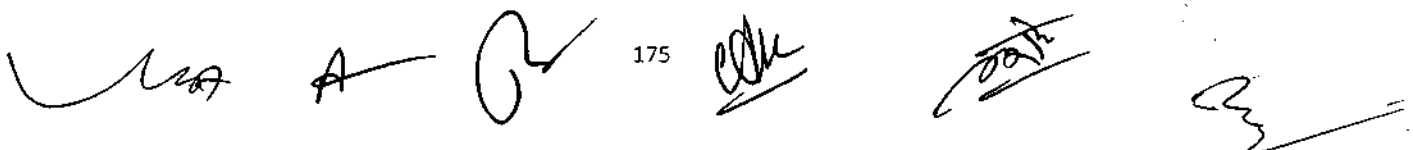
1	Latitude	From 24°25'19.48"N	To 24°25'23.21"N
2	Longitude	From 85°46'33.48"E	To 85°46'36.33"E

LAND DETAILS :

1	Kusumhei	:	PLOT NO.
			1234, 1235, 1244, 1245, 1248, 1263, 1264, 1265, 1266, 1267 & 1268

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Lease deed has been issued by District Mining Office, Koderma dated 23-04-2010.
2	CO	:	The CO, Domchanch vide letter no. 592, dated 13.07.2017 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar.
3	DMO	:	DMO, Koderma vide letter no. 1200/M dated 17.12.2021 certified that one lease (8.35 acre) exist within 500 m radius from proposed project site and total area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1972, dated 14.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Koderma Forest Division vide letter no. 2452 dated 19.08.2021 certified that the distance from the nearest RF/Pf from the project site is 520 m.
6	DSR	:	Project name is mentioned in District Survey report (DSR) Koderma


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		district.
/	Gram Sabha	: On 30-11-2021
8	Mine Plan Approval	: Letter no. 47/G dated 10.02.2022

Working Details

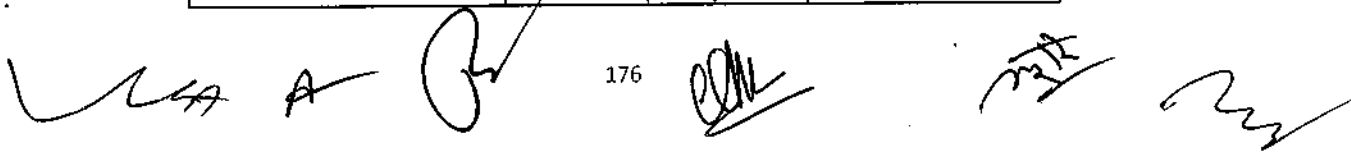
1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years- 0.034 ha Life of Mine - 0.061 Ha
3	Waste Generation	: 5 years- 122.40 cu.m
4	Stripping Ratio	: 1: 0.007
5	Working Days	: 300
6	Benches: size & No	: 3m x 5m
7	Elevation of Mine	: 369 AMSL to 371 AMSL
8	Ground Level Elevation	: 369 AMSL
9	Ultimate Working Depth	: 355 AMSL (14 mbgl)
10	Water Table	: 353 AMSL (16mbgl)
11	Topography of Mine	: Area represents almost flat terrain.
12	Explosive Requirement	: 69 kg slurry explosive
13	Diesel/Fuel requirement	: 7 liter diesel/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	3238.70	1,199.52	24.48	370 mRL - 368 mRL
2 nd	3238.70	1,199.52	24.48	370 mRL - 368 mRL
3 rd	3238.70	1,199.52	24.48	370 mRL - 368 mRL
4 th	3238.70	1,199.52	24.48	370 mRL - 368 mRL
5 th	3238.70	1,199.52	24.48	368 mRL - 367 mRL
Total	16,193.50	5,997.60	122.40	

Land Use

Pattern of Utilization	Existing (Ha)	Plan Period (Ha)	Conceptual stage (Ha)
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Quarry	0.006	0.034	0.061 (entire area will be converted into water reservoir for rain water harvesting)
Road	0.007	0.007	0.006
Road Barrier	--	--	--
Proposed Dump	--	Nil	Nil
Safety Zone Plantation	Nil	0.208	0.208
Total	0.123	0.249	0.275
Unused Area	0.262	0.026	0.000
Total leasehold area	0.275	0.275	0.275

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.208 ha	520
2	Haul /Approach Road	:	0.10 km	100

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 122.40 cum waste (overburden) during the plan period. The generated waste will be used in making and maintenance of haul road and village road, so there is no requirement of waste dumping plan for this mining plan period.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.

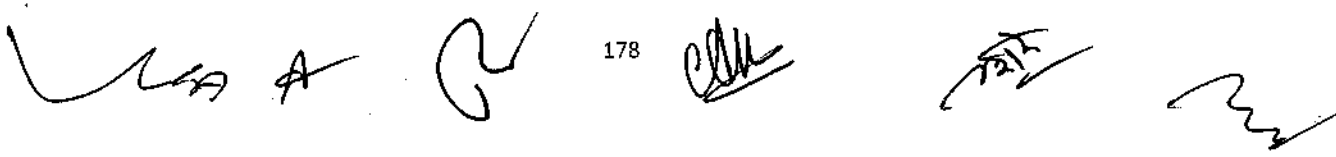
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.


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Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kusumhei Stone Mine of Smt. Bindwa Devi, Village : Kusumhei, Thana : Markacho, Dist. : Koderma, Jharkhand (0.275 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Hethli Pradhandih Stone Deposit of Shri Mukesh Kumar & Shri Sanjay Kumar Singh, Village : Hethli Pradhandih, Thana : Dhanwar, Tehsil : Dhanwar, Dist. : Giridih, Jharkhand (0.570 Ha).

(Proposal No. SIA/JH/MIN/256393/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 12590.00 cum/ annum or 33993.00 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	: Hethli Pradhandih Stone Deposit	
2	Lessee:	: Shri Mukesh Kumar, s/o Late Kedar Yadav Village- Mansadih, P.O.- Murna, P.S.- Dhanwa, Dist- Giridih, Jharkhand. 2nd Partner – Shri. Sanjay Kumar Singh, S/o Gajendra Singh, Village & P.O.- Jhumri Telaiya, Distt.- Koderma, Jharkhand	
3	Lease Address	: Village – Hethli Pradhandih, Thana- Dhanwar, District – Giridih, Jharkhand.	
4	Lease Area	: 0.570 Ha	Acres-1.41 Acre
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 15 Lakhs	
7	EMP Budget	: Capital: 2.30 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.30 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 62,940.00 cum	Tonnes: 169938.00 tons
11	Mine Life	: 5 years	
12	Man power	: 22	
13	Water Requirement	: 5.50 KLD (Drinking: 0.22 KLD, Dust Suppression: 3.0 KLD, Plantation: 2.0 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: Yes, Crusher within mining (area – 0.05 ha)	
17	Nearest Water	: Mokhli Nadi, Approx. 4.5 km. in SE direction.	

	Body	:	Irga River, Approx. 5.5 km. in E direction.
18	Nearest Habitation	:	Hethli Pradhandih, 0.50 km
19	Nearest Rail Station	:	Dhanwar Railway station, approx. 10.0 km toward N direction.
20	Nearest Air Port	:	Birsa Munda Airport Ranchi, approx. 128 Km towards SSW direction.
21	Nearest Forest	:	PF near Jatadih village at approx 2.5 km towards SW direction. Open jungle mainly sal (PF) at approx. 4.0 km. in SW direction. PF near Langurdiha village at approx. 4.2 km. in SE direction.
22	Road & Highways	:	SH-13, Approx. 13.50 km. in N direction.

CO-ORDINATES :

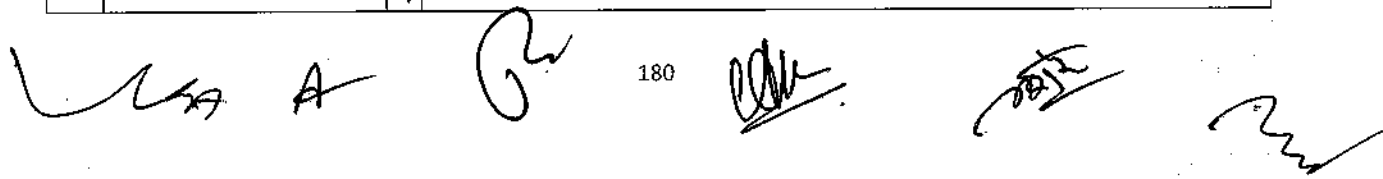
1	Latitude	From 23°54'57.17"N	To 23°55'02.09"N
2	Longitude	From 86°07'29.02"E	To 86°07'35.14"E

LAND DETAILS :

1	Hethli Pradhandih	:	KHATA NO.	PLOT NO.
			05	58 (P), 137 (P)
			03	112 (P)
			11	113 (P)
			16	141 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Giridih Jamshedpur vide letter no. 53/M, dated 21.01.2022.
2	CO	:	The CO, Dhanwar vide letter no. 726, dated 29-09-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyan.
3	DMO	:	DMO, Giridih vide memo no. 71/M dated 29.01.2022 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2294, dated 21-12-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Giridih West Division vide letter no. 1294 dated 03-11-2021



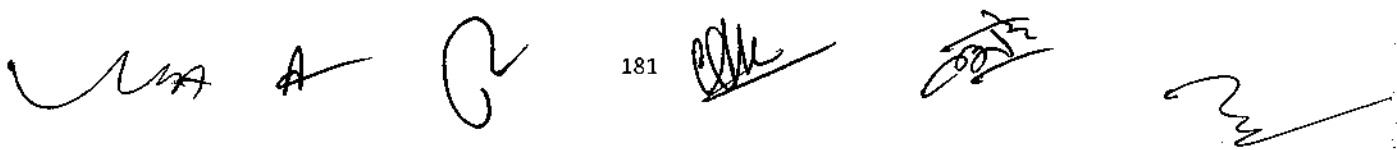
		certified that the distance from the nearest RF/PF from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Giridih vide letter no. 70/M, dated 29.01.2022 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 29-11-2021
8	Mine Plan Approval	: Vide Memo no. 29/G, dated 01-02-2022

Working Details

1	Mining Method	: Opencast other than fully mechanized method (OTFM)
2	Quarry Area	: 5 years– 0.470 ha Life of Mine – 0.470 ha
3	Waste Generation	: 5 years– 5540.00 cu.m
4	Stripping Ratio	: 1: 0.2
5	Working Days	: 300
6	Bench: size & No	: 6m x 10m
7	Elevation of Mine	: 334 AMSL to 338 AMSL
8	Ground Level Elevation	: 334 AMSL
9	Ultimate Working Depth	: 314 AMSL (20 mbgl)
10	Water Table	: 309 AMSL (25 mbgl)
11	Topography of Mine	: Area represents a small hillock
12	Explosive Requirement	: 84 kg slurry explosive
13	Diesel/Fuel requirement	: 10 liter diesel/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	33991.65	12589.50	2640.00	338 mRL – 332 mRL
2 nd	33991.65	12589.50	275.00	338 mRL – 326 mRL
3 rd	33991.65	12589.50	--	332 mRL – 314 mRL


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4 th	33993.00	12590.00	2625.00	336 mRL – 314 mRL
5 th	33969.37	12581.25	--	332 mRL – 320 mRL
Total	169937.32	62939.75	5540.00	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	0.470	0.470 (0.049 ha area will be backfilled and after backfilling entire area will be converted into water reservoir)
Road	Nil	Nil	Nil
Proposed Crusher	Nil	0.050 (within mining)	Nil
Safety Zone Plantation	Nil	0.10	0.10
Total	Nil	0.570	0.570
Unused Area	0.570	0.00	0.00
Total leasehold area	0.570	0.570	0.570

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.100 ha	250
2	Haul /Approach Road	:	0.40 km	400

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 5540.0 cum waste (overburden) during the plan period. Part of the waste will be utilized for maintenance & construction of the village road and part of the waste will be temporarily dumped on the western side of proposed quarry during 1st

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two years. In 4th year, waste to be generated will be backfilled towards eastern part of the exhausted quarry.

Water Quality Management

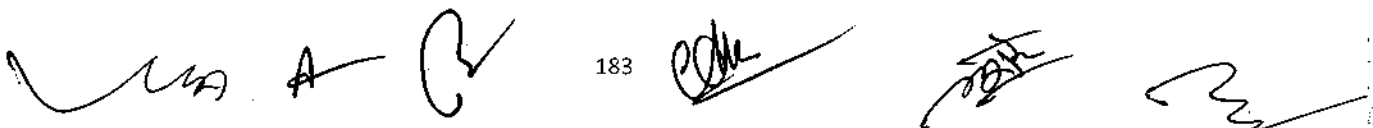
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 11m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.

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- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Hethli Pradhandih Stone Deposit of Shri Mukesh Kumar & Shri Sanjay Kumar Singh, Village : Hethli Pradhandih, Thana : Dhanwar, Tehsil : Dhanwar, Dist. : Giridih, Jharkhand (0.570 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

8. Sundarpahari Stone Deposit of Md. Joshim Ali, Village : Sundarpahari, Thana : Pakur(M), Dist. : Pakur, Jharkhand (1.893 Ha).

(Proposal No. : SIA/JH/ MIN/256034 /2022).

This file was submitted for EC and subsequently withdrawn by the PAs before appraisal by the SEAC.

9. Khaprajola Stone Mine of M/s Mahira Stone Works, Village : Khaprajola, Tehsil : Pakur, Dist. : Pakur, Jharkhand (2.83 Ha).

(Proposal No. : SIA/JH/MIN/72151 /2022).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity- 38,637 cu.m/annum or 1,08,184 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Khaprajola Stone Mine
2	Lessee:	: M/S Mahira Stone Works (Prop.- Sh. Mejaharul Islam) At village – Jankinagar, Post – Prithvinagar, District- Pakur, Jharkhand.
3	Lease Address	: Village – Khaprajola, Thana No.- 92, P.S.- Malpahari, District – Pakur, State :-Jharkhand.
4	Lease Area	: 2.83 ha Acres- 6.98 Acres

5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 35 Lakhs
7	EMP Budget	:	Capital: 5.65 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.70 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.m.: 4,62,203 cum Tonnes: 12,94,168 tons
11	Mine Life	:	12 years
12	Man power	:	37
13	Water Requirement	:	14.0 KLD (Drinking: 0.37 KLD, Dust Suppression: 6.0 KLD, Plantation: 7.65 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Torai River, 7.0 km, N direction. Bansoli River, 9.5 km, SE direction.
18	Nearest Habitation	:	Khaprajola, 0.70 km
19	Nearest Rail Station	:	Nagarnabi Railway station, approx. 2.0 km
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Durgapur, West Bengal, approx. 125.0 km.
21	Nearest Forest	:	Protected Forest near Dhangora Pahar, Approx. 8.0 km. in WNW direction. Protected Forest near Dharni Pahar village, Approx. 9.0 km. in WSW direction.
22	Road & Highways	:	NH-114A, Approx. 4.50 km. in North direction. SH-7, Approx. 5.50 km. in SE direction.

CO-ORDINATES

1	Latitude	From 24°35'36.72"N	To 24°35'37.94"N
2	Longitude	From 87°50'48.82"E	To 87°50'43.44"E

LAND DETAILS :

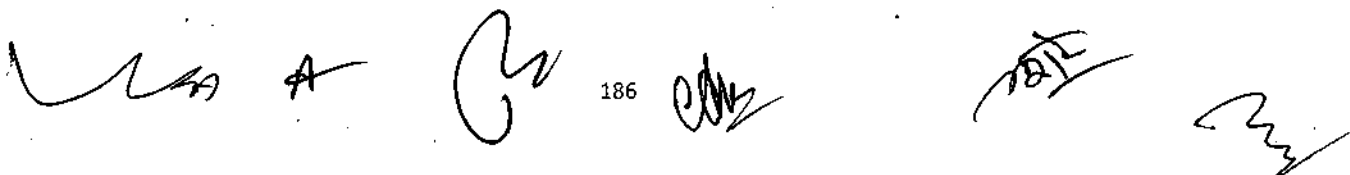
Khata no.	Plot no.
13	818
15	814, 815, 816, 819, 820, 821, 824/P
17	825, 826/P, 827, 828, 829/P & 830/P
20	817, 822, 823

STATUTORY CLEARANCES

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1812/M dated 29.09.2020.
2	CO	: The CO, Pakur vide letter no. 169 dated 28-02-2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyan & Register II.
3	DMO	: DMO, Pakur vide memo no. 2026/M, dated 26-11-2021 certified that there are four other leases (5.42 acre, 8.19 acre, 11.80 acre & 7.94 acre) within 500 m radius and total lease area is 16.32 ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 976, dated 22-05-2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division vide letter no. 883, Pakur on 30-05-2020 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	: Project name is mentioned in District Survey report (DSR) Pakur.
7	Gram Sabha	: On 26-10-2019
8	Mine Plan Approval	: Vide Memo no. 244/G dated 07.12.2020

Working Details

1	Mining Method	: Opencast Mechanized Mining method
2	Quarry Area	: 5 years-1.10 ha Life of Mine - 1.20 ha
3	Waste Generation	: 5 years- 11975.00 cu.m
4	Stripping Ratio	: 1: 0.07
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 47 AMSL to 48 AMSL
8	Ground Level Elevation	: 47 AMSL
9	Ultimate Working Depth	: 23 AMSL (24 mbgl)
10	Water Table	: 15 AMSL (32 mbgl)
11	Topography of Mine	: Area represents an undulating topography.
12	Explosive Requirement	: 46 kg slurry explosive
13	Diesel/Fuel requirement	: 8 liter/day


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Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 st	107551	38411	4968	47 mRL – 41 mRL
2 nd	108041	38586	4095	47 mRL – 41 mRL
3 rd	108024	38580	2912	47 mRL – 41 mRL
4 th	108184	38637	-	41 mRL – 35 mRL
5 th	108058	38592	-	41 mRL – 35 mRL
Total	539858	192806	11975	

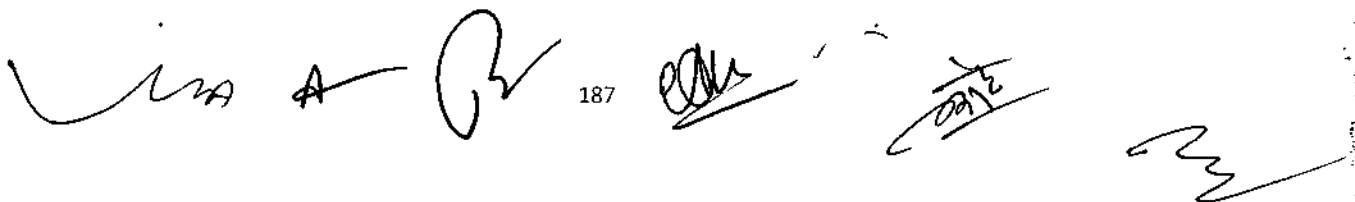
Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.10 (including road)	1.2 (will be converted in water reservoir)
Proposed Dump with parapet wall & garland drain	Nil	0.01	Nil
Safety Zone Plantation	Nil	0.93	0.93
Total	Nil	2.04	2.13
Unused Area	2.83	0.09	0.70
Total leasehold area	2.83	2.83	2.83

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.930 ha	2330
2	Haul /Approach Road	: 0.22 km	220



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- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 11,975 cum (dump area- 0.01 ha) during the plan period. During Plan period gritty soil removed will be dumped at western part of the area with suitable precautions like parapet wall and garland drain. Some quantity of this soil will be used for road dressing and plantation.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done

- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard.
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25&26.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

10. Kunhara Kalan Stone Deposit of M/s J. C. Stone Works, Village : Kunhara Kalan, Thana : Barkatha, Dist. : Hazaribagh, Jharkhand (1.62 Ha).

(Proposal No. : SIA/JH/ MIN/255004 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 53,590 cu.m/annum or 1,44,693 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Kunhara Kalan Stone Deposit
2	Lessee:	: M/s J.C. Stone Works

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		Prop.- Sh. Ajit Kumar At Village, P.O. and Thana-Nalhati, District- Birbhum, West Bengal.	
3	Lease Address	: Village – Kunhara Kalan, Thana- Barkatha, District – Hazaribagh, State –Jharkhand.	
4	Lease Area	: 1.62 ha	Acres-4.00 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 25 Lakhs	
7	EMP Budget	: Capital: 3.875 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.50Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 2,68,180 cum	Tonnes: 7,24,086 tons
11	Mine Life	: 5.0 years	
12	Man power	: 20	
13	Water Requirement	: 7.5 KLD (Drinking: 0.20KLD, Dust Suppression:4.30 KLD, Plantation:3.0 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No crusher	
17	Nearest Water Body	: Barhoriya Nadi Approx. 1.0 km towards S direction Baradbohi Nadi Approx. 0.5 km towards N direction	
18	Nearest Habitation	: Kunhara Kalan, 0.60 km	
19	Nearest Rail Station	: Sarmatanr Railway station, approx. 20.5 km toward NNE direction	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 97.0 km towards S direction.	
21	Nearest Forest	: Fairly dense mixed jungle near Kunhara Kalan village Approx. 0.70 km towards SW direction of mine site. Protected Forest near Jhurjhuri village Approx. 4.0 km towards N direction of mine site.	
22	Road & Highways	: NH-19 Approx. 1.0 km. in NNE direction. NH-20 Approx. 19.5 km. in WNW direction.	

CO-ORDINATES :

1	Latitude	From 24°10'08.26" N	To 24°10'14.67" N
2	Longitude	From 85°35'05.40" E	To 85°35'11.01" E

LAND DETAILS :

Khata no.	Plot no.
03	935, 952
04	931, 949

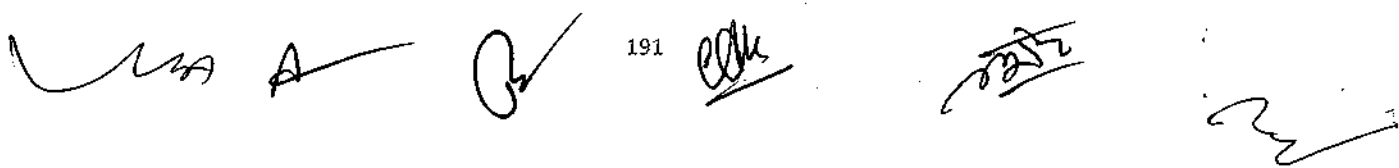
06	1038
07	937, 953
09	936, 954
10	934, 951
22	930, 950
36	1039
37	947
38	925 (P)
40	1035, 1036, 1037
41	923 (P)
48	948
53	945

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Hazaribagh vide letter no. 822/M , dated 11-12-2021.
2	CO	:	The CO, Barkatha vide letter no. 630, dated 29-12-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	:	DMO, Hazaribagh vide memo no. 833/M dated 16-12-2021 certified that 02 other lease (4.50 acre & 3.145 acre) within 500 m radius from proposed project site and total area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2118, dated 21-12-2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Hazaribagh West Division vide letter no. 3915 dated 09-11-2021 certified that the distance from the nearest RF/PF from the project site is more than 250 m.
6	DSR	:	Project name is mentioned in District Survey report (DSR) Hazaribagh district.
7	Gram Sabha	:	on 19/09/2021
8	Mine Plan Approval	:	Vide Memo no. 13/G dated 12.01.2022

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.16 ha Life of Mine - 1.16 ha


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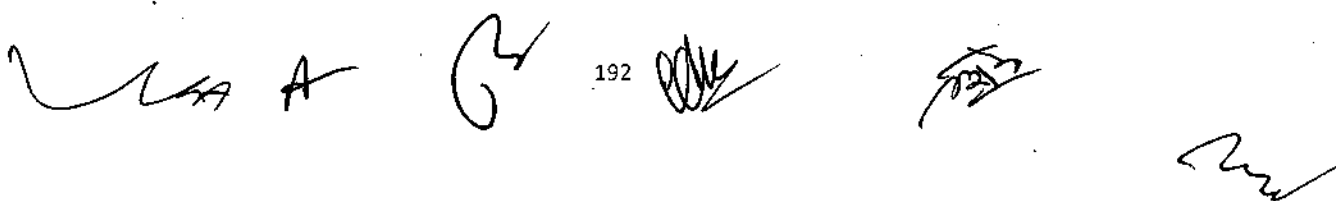
3	Waste Generation	:	5 years-4,225 cu.m
4	Stripping Ratio	:	1: 0.005
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	390AMSL to 388AMSL
8	Ground Level Elevation	:	390 AMSL
9	Ultimate Working Depth	:	360 AMSL (5mbgl)
10	Water Table	:	350 AMSL (15mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	Class – III (special gelatin)& Class –VI explosive (detonator, electric detonator) is used
13	Diesel/Fuel requirement	:	6 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	140656.50	52095	4025.00	389 mRL – 378 mRL
2 nd	142600.00	57040	-	388 mRL - 372 mRL
3 rd	144693.00	53590	-	378 mRL – 372 mRL
4 th	144693.00	53590	-	372 mRL - 366 mRL
5 th	144693.00	53590	-	372 mRL – 360 mRL
Total	423312	269905	4025.00	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	0.384	1.160 (0.003 ha road comes under)	1.160 (entire area will be converted into water reservoir)
Road	0.006	0.003	0.003
Safety Zone Plantation	Nil	0.457	0.457
Unused Area	1.230	-	-


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Total	1.620	1.620	1.620
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ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.455ha	1150
2	Haul /Approach Road	:	0.35 km	350

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

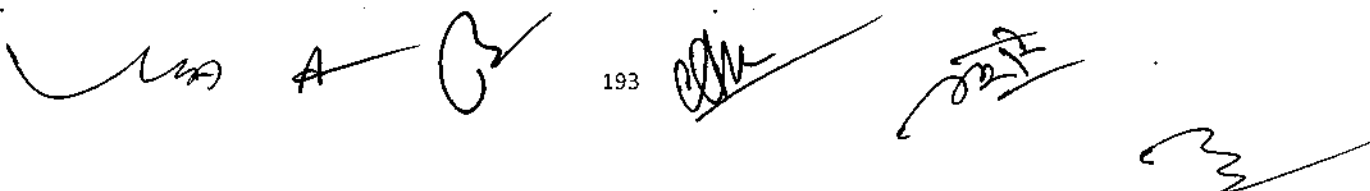
- Waste Generation will be 4025cum during the plan period. During plan period the proposed waste will be dumped at site temporarily & will be used in maintenance of road and backfilling.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 10m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.



- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kunhara Kalan Stone Deposit of M/s J. C. Stone Works, Village : Kunhara Kalan, Thana : Barkatha, Dist. : Hazaribagh, Jharkhand (1.62 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

11. Bara Kanki Stone Deposit of M/s Laxmi Enterprises, Village : Bara Kanki, Thana : Govindpur, Dist. : Saraikela-Kharsawan, Jharkhand (2.79 Ha).

(Proposal No. : SIA/JH/ MIN/255197 /2022).

Project Category: B2 – Application for Environmental Clearance

EC Application for: Proposed Capacity- 38,910.60cum/annum or 1,05,058.60 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Bara Kanki Stone Deposit
2	Lessee:	: M/S Laxmi Enterprises Partner- Sri Vikash Saw S/o Shri. Bhagwan Das Saw Address- Ward no.- 09, Sai Niwas, Rani Sati Mandir Road, Chradharpur, District- West Singhbhum, Jharkhand.
3	Lease Address	: Village – Bara Kanki, Thana- Govindpur, Anchal-Rajnagar, District- Saraikela- Kharsawan, Jharkhand.
4	Lease Area	: 2.79 ha Acres-6.91 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 5.04 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.70Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 261666 cum Tonnes: 7,06,498.20 tons
11	Mine Life	: 6.72 years
12	Man power	: 40
13	Water Requirement	: 12.90 KLD (Drinking: 0.40KLD, Dust Suppression:5.14 KLD, Plantation:7.29 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Kharkai River, 2.00km, N direction
18	Nearest Habitation	: Bara Kanki, 0.25 km
19	Nearest Rail Station	: Birbans Railway station, 12.0 km , NNW direction
20	Nearest Air Port	: Birsa Munda Airport, 101.5 km, NW direction
21	Nearest Forest	: Protected Forest near Mundakati Village, approx. 4.0 km, NE side Protected Forest near Tarna Dungri Village, 6.0 km, NW direction
22	Road & Highways	: SH-6 , Approx. 6.10 km, SSE direction

CO-ORDINATES

1	Latitude	From 22°41'15.0"N	To 22°41'24.0"N
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2	Longitude	From 86°02'28.0 "E	To 86°02'37.0"E
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LAND DETAILS :

Bara Kanki	Khata no.	Plot no.
	07	11, 12/P, 13, 14 & 15/P

STATUTORY CLEARANCES

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Saraikela-Kharsawan vide letter no. 220/M, dated 08.04.2021
2	CO	: The CO, Rajnagar vide letter no. 985, dated 28.12.2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in Khatiyani.
3	DMO	: DMO, Saraikela-Kharsawan vide letter no. 380/M, dated 10.07.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Dalma Elephant project vide letter no. 1385, dated 03.09.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Saraikela Forest Division, vide letter no. 179 dated 28.01.2021 certified that the distance of reserved / protected forest from the project site is more than 250 m.
6	DSR	: The DC, Saraikela-Kharsawan vide letter no 488/M dated 03/09/2021 has informed that this project is part of District Survey Report (DSR) at Saraikela-Kharsawan district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 10-12-2020
8	Mine Plan Approval	: Vide Memo no. 575/G, Hazaribag dated 11.06.2021

Working Details

1	Mining Method	: Opencast (OTFM) Method	
2	Quarry Area	: 5 years-1.518 ha	Life of Mine - 1.846 ha
3	Waste Generation	: 5 years-21612.50 cu.m	
4	Stripping Ratio	: 1: 0.04	
5	Working Days	: 300	

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6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 172 AMSL to 162 AMSL
8	Ground Level Elevation	: 162 AMSL
9	Ultimate Working Depth	: 145 AMSL (17 m bgl)
10	Water Table	: 137 AMSL (25 m bgl)
11	Topography of Mine	: The area represents hillock of stone, trend is SE-NW
12	Explosive Requirement	: 105 kg slurry explosive
13	Diesel/Fuel requirement	: 8 liter diesel/day

Production Details (plan period)

Year	Production of Stone in Tonnes	Production of Stone in Cum	Total Waste (cum)
1st	105024.60	38898.00	4322.00
2nd	105027.03	38898.90	4322.10
3rd	105058.60	38910.60	4323.40
4th	105053.80	38908.80	4323.20
5th	105019.70	38896.20	4321.80
Total	525183.73	194512.50	21612.50

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation	Nil	1.518	1.846 (Entire area will be converted into water reservoir)
Proposed Dump	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.944	0.944
Total	Nil	2.462	2.79
Unused Area	2.79	0.328	0.000

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	Location	Area/Length	No. of Trees
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1	Safety Zone	:	0.944 ha	2360
2	Approach Road	:	0.07 km	70

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 21612.50 cum (dump area- 0.0 ha in plan period) during the plan period. It is proposed that part of the waste will be utilized for maintenance of village road and making of approach road, haul road, etc.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.

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- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bara Kanki Stone Deposit of M/s Laxmi Enterprises, Village : Bara Kanki, Thana : Govindpur, Dist. : Saraikela-Kharsawan, Jharkhand (2.79 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

12. Aguidangra Brick Earth Deposit of M/s Kanak Bricks, Village : Aguidangra, Thana : Patamda, Thana no. : 82 (339), Dist. : East Singhbhum, Jharkhand (1.65 Ha).

(Proposal No. : SIA/JH /MIN/242413 /2021).

Project Category: B2 – Application for Environment Clearance

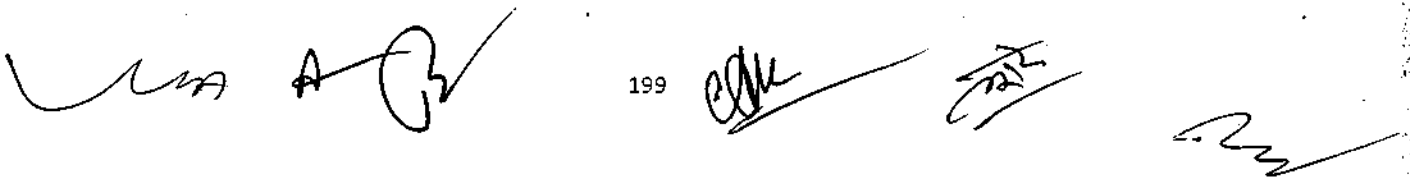
EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

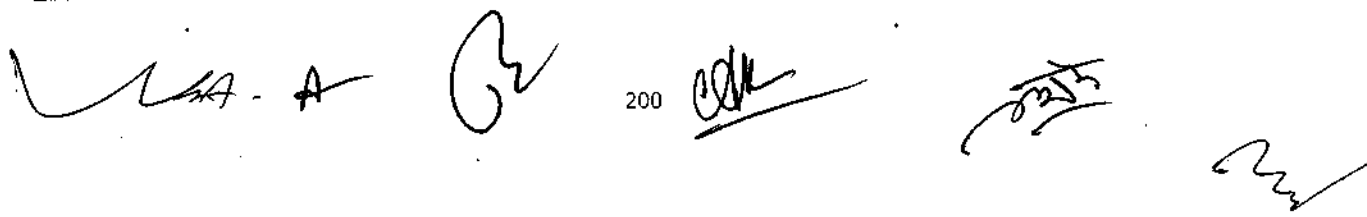
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Sl	Parameter	Details	
1	Project Name	: Aguidangra Brick Earth Deposit	
2	Lessee:	: M/s Kanak Bricks Prop.-Smt. Uma Devi W/O- Shri Pawan Kumar H.No.-03, Sarboday Path, Nearest Land Mark, Suman Hotel, Dimna Road, P.O-Mango, P.S.-Ulidih Town, Jamshedpur, Dist-East Singhbhum, Jharkhand	
3	Lease Address	: Village: Aguidangra, Thana.- Patamda, District- East Singhbhum, Jharkhand	
4	Lease Area	: Ha:1.65 ha	Acres:4.09 Acre
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 20 Lakhs	
7	EMP Budget	: Capital: 3.08Lakhs	Recurring: 2.82Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 22780.00 Cu. M.	Tonnes:29614.00 MT
11	Mine Life	: 18.98 or 19 Seasons	
12	Man power	: 11	
13	Water Requirement	: 7.50 KLD (Drinking:0.11 KLD, Dust Suppression:3.30 KLD, Plantation:4.05KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No Crusher	
17	Nearest Water Body	: Sona Nadi, Approx. 1.20 km, W Side Subarnareka River, Approx. 18.50 km, SW Side Dimna Reservoir, Approx. 17.00 km, SW Side	
18	Nearest Habitation	: Aguidangra, 0.50km	
19	Nearest Rail Station	: Biramdih Railway Station, approx. 22.5 km, NW Side	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 116.0 km, WNW side	
21	Nearest Forest	: Mathurapur Protected Forest , Approx. 3.1 km, SE direction Kherua Protected Forest , Approx. 6.0 km SW direction Lailam Protected Forest , Approx. 6.0 km SW direction	
22	Road & Highways	: SH- 5, approx., 14.20 km towards ESE direction NH-116B, approx, 10.10 km towards N direction	

CO-ORDINATES

1	Latitude	From 22°56'04.41"N	To 22°56'12.99"N
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2	Longitude	From 86°22'51.11"E	To 86°22'56.16"E
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LAND DETAILS

			Khata no	Plot no
1	Aguidangra	:	62	756 & 1219
			63	748

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The land argeement has been made on 04.10.2021.
2	CO	:	The CO, Patamda, East Singhbhum vide letter no. 771, dated 22/10/2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, East Singhbhum vide letter no. 107/M dated 21.01.2021 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1670 dated 02/11/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 2892, dated 08/11/2021 certified that the distance from the Nearest Reserved Forest / Protected Forest from the project site is more than 250 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), East Singhbhum District.
7	Gram Sabha	:	On 24-11-2018
8	Mine Plan Approval	:	Vide letter no. 256/G dated 11/12/2020

Working Details

1	Mining Method	:	Open Cast manual method
2	Quarry Area	:	5 years-0.437ha Life of Mine - 1.175ha
3	Waste Generation	:	5 years-Nil Life of Mine - Nil
4	Stripping Ratio	:	1: 0.0
5	Working Days	:	150
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	254 AMSL to 260AMSL
8	Ground Level Elevation	:	254 AMSL

9	Ultimate Working Depth	:	252AMSL (2 bgl)
10	Water Table	:	244 AMSL (10 bgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	3 litre/day

Production Details

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 st	1200.00	600000	1560.00
2 nd	1200.00	600000	1560.00
3 rd	1200.00	600000	1560.00
4 th	1200.00	600000	1560.00
5 th	1200.00	600000	1560.00
Total	6000.00	3000000	7800.00

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarrying	0.092	0.437	1.175 (1.175 area shall be reclaimed as cultivated land and handed over to the concern raiyat)
Storage of casted bricks	Nil	Storage of casted bricks within quarry	Storage of casted bricks within quarry
Plantation at safety zone	Nil	0.478	0.478
Kiln	Nil	0.182	Nil
Mine Road	Nil	0.002	0.002
Total	0.092	1.099	1.655

Unused Area	1.558	0.551	0.000
Total Area	1.65	1.65	1.655

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.478ha	1200
2	Haul /Approach Road	: 0.045 km	150

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Nil

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emissionduring drilling.

- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:




- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Aguidangra Brick Earth Deposit of M/s Kanak Bricks, Village : Aguidangra, Thana : Patamda, Thana no. : 82 (339), Dist. : East Singhbhum, Jharkhand (1.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

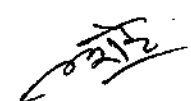
13. Mahulpahari Stone Deposit of M/s Golabur Stone , Village : Mahulpahari, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.865 Ha).

(Proposal No. : SIA/JH/ MIN/255809/2022).

Project Category: B2 – Application for Environment Clearance










EC Application for: Proposed Capacity- 28,954.03 cu.m/annum or 83,995.68 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

SI	Parameter	Details
1	Project Name	: Mahulpahri Stone Deposit
2	Lessee:	: M/S Golabur Stone Prop.- Sri Golabur Rahaman, S/o Sri Madeswar Hussain At village – Nayani Gangadda, P.O – Khanpur, P.S – Murarai, District- Birbhum, West Bengal.
3	Lease Address	: Village – Mahulpahri, Thana- Maheshpur, District – Pakur, State :- Jharkhand.
4	Lease Area	: 2.865 ha Acres- 7.08 Acre
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 3.0 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.70 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 290,225.95 cum Tonnes: 8,41,655.26 tons
11	Mine Life	: 10.00 years
12	Man power	: 31
13	Water Requirement	: 9.0 KLD (Drinking: 0.31 KLD, Dust Suppression: 5.19 KLD, Plantation: 3.48 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Baru Nadi Approx. 8.50 km towards WSW direction. Tripita Nadi Approx. 7.0 km towards SW direction..
18	Nearest Habitation	: Mahulpahri, 0.30 km
19	Nearest Rail Station	: Chatra Railway station, approx. 9.0 km toward East direction.
20	Nearest Air Port	: Kazi Nazrul Islam Airport, approx. 100.0 km towards SW direction.
21	Nearest Forest	: Protected Forest near Mohanpur Village at approx 9.50 km towards S direction. Open Eucalyptus jungle RF at 9.20 km towards S direction.
22	Road & Highways	: SH-7, Approx. 9.0 km. in East direction. NH-14, Approx. 12.0 km. in SE direction.







CO-ORDINATES :

1	Latitude	From 24°21'56.7356"N	To 24°22'06.1062"N
2	Longitude	From 87°45'19.7758"E	To 87°45'30.4731"E

LAND DETAILS :

Khata no.	Plot no.
17	571, 574
18	563, 564, 569, 570, 572, 573

STATUTORY CLEARANCES :

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1381/M, dated 20-08-2019.
2	CO	: The CO, Maheshpur vide letter no. 352, dated 04-06-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	: DMO, Pakur vide memo no. 1927/M dated 03.11.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO wildlife Hazaribagh vide letter no. 1305, dated 08-07-2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division vide letter no. 667 dated 16-06-2019 certified that the distance of notified forest from the project site is more than 250 m.
6	DSR	: The Project is mentioned in District Survey Report (DSR), Pakur District.
7	Gram Sabha	: On 10-07-2019
8	Mine Plan Approval	: Vide Memo no. 399/DDM dated 13.09.2019

Working Details

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years- 1.691 ha Life of Mine - 2.509 Ha
3	Waste Generation	: 5 years- 7618.10 cu.m
4	Stripping Ratio	: 1: 0.01
5	Working Days	: 300

6	Benches: size & No	:	5m x 5m
7	Elevation of Mine	:	57 AMSL to 63 AMSL
8	Ground Level Elevation	:	54 AMSL
9	Ultimate Working Depth	:	45 AMSL (9 mbgl)
10	Water Table	:	42 AMSL (15mbgl)
11	Topography of Mine	:	Area represents a undulating hills
12	Explosive Requirement	:	42 kg slurry explosive
13	Diesel/Fuel requirement	:	10 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	83995.68	28,964.03	1524.42	51 mRL
2 nd	83905.18	28,932.82	1522.78	51 mRL
3 rd	83903.53	28,932.25	1522.75	51 mRL – 45 mRL
4 th	83986.18	28,960.75	1524.25	45 mRL
5 th	83966.89	28,954.10	1523.90	45 mRL
Total	419757.45	144,743.95	7618.10	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	1.467	1.691	2.509 (0.113 ha area shall be backfilled & entire area after backfilling will be converted into water reservoir)
Road	0.044	0.013	0.001
Proposed Dump	Nil	0.357	Nil
Safety Zone Plantation	Nil	0.355	0.355
Total	1.511	2.416	2.865
Unused Area	1.354	0.449	0.000
Total leasehold area	2.865	2.865	2.865

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.355 ha	890
2	Haul /Approach Road	:	0.27 km	270

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 7618.10 cum waste (intercalated waste) during the plan period. The generated waste will be dump temporarily in the lease area & will be used for backfilling and road dressing in plan and conceptual periods. (Dump area- 0.357 ha).

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Mahulpahari Stone Deposit of M/s Golabur Stone , Village : Mahulpahari, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.865 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

14. Chhota Lakha Stone Deposit of Shri Arun Kumar Tudu, Village : Chhota Lakha, Thana : Chandil, Dist. : Saraikela Kharsawan, Jharkhand (1.214 Ha).

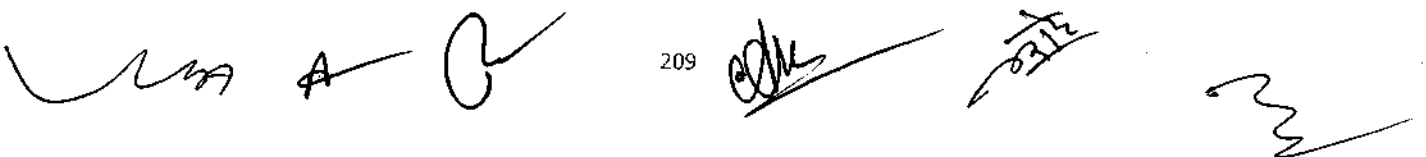
(Proposal No. : SIA/JH/MIN/253240 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 14000.13 cu.m/annum or 35000.34 TPA

Name of the consultant: P & M Solution, Noida, UP.

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This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	Chhota Lakha Stone Deposit	
2	Lessee:	Sri Arun kumar Tudu (S/o Mohan Tudu) Address- At-Bara Lakha, P.S- Chandil, District-Saraikela-Kharsawan, State-Jharkhand	
3	Lease Address	Village – Chhota Lakha, Thana- Chandil, District – Saraikela-Kharsawan, State –Jharkhand.	
4	Lease Area	1.214 ha	Acres-3.00 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 25 Lakhs	
7	EMP Budget	Capital: 3.76 Lakhs	Recurring: 4.17 Lakh / year
8	CSR / CER Budget	Rs. 0.50 Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 69976.24 cum	Tonnes: 174940.60 tons
11	Mine Life	5.00 years	
12	Man power	22	
13	Water Requirement	9.0 KLD(Drinking: 0.22 KLD, Dust Suppression: 5.35 KLD, Plantation: 3.4 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	No crusher	
17	Nearest Water Body	Subarna Rekha River, 2.50 km, S direction	
18	Nearest Habitation	Bara Lakha, 0.7km	
19	Nearest Rail Station	Manikui Railway station, 0.7km	
20	Nearest Air Port	Birsa Munda Airport, Ranchi approx. 88.0 km towards WNW direction	
21	Nearest Forest	Protected Forest near Dalma Pahar, approx. 6 km, E side	
22	Road & Highways	NH-43, Approx. 1.5 km. in N direction SH-5, Approx. 7.8 km. in S direction	

CO-ORDINATES

1	Latitude	From 22°54'56.69"N N	To 22°55'01.50"N
2	Longitude	From 86°04'20.41"E	To 86°04'24.99"E

LAND DETAILS

1.	Chhota Lakha	Khata no.	Plot no.
		04	1745,1746 &1747

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STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Saraikela Kharsawan vide letter no. 605/M, dated 02.11.2021
2	CO	:	The CO, Chandil vide letter no. 627, dated 04.06.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	:	DMO, Pakur vide letter no. 21/M, dated 07.01.2022 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	Deputy Conservator of Forest & Field Director, Elephant Project Jamshedpur vide letter no. 1605, dated 22.10.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Saraikela-Kharsawan Forest Division vide letter no. 452 dated 02.03.2021 certified that the distance from the nearest Reserved Forest / Protected Forest from the project site is more than 250 m.
6	DSR	:	The DC, Saraikela Kharsawan vide letter no 718/M dated 22/12/2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 23.09.2020
8	Mine Plan Approval	:	Vide Memo no. 762/G dated 16.11.2021

Working Details :

1	Mining Method	:	Opencast (OTFM) Method
2	Quarry Area	:	5 years- 0.954 ha Life of Mine - 5.00 Year
3	Waste Generation	:	5 years- 19498.67 cu.m
4	Stripping Ratio	:	1: 0.10
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	160 AMSL to 163 AMSL
8	Ground Level Elevation	:	160 AMSL
9	Ultimate Working Depth	:	150 AMSL (10 mbgl)
10	Water Table	:	145 AMSL (15 mbgl)
11	Topography of Mine	:	Area represents a undulating topography
12	Explosive Requirement	:	72 kg slurry explosive

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13	Diesel/Fuel requirement	:	7 liter/day
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Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	34998.75	13999.50	3545.50	163 mRL - 156 mRL
2 nd	35000.34	14000.10	2470.61	156 mRL - 150 mRL
3 rd	35000.34	14000.13	5220.61	160 mRL - 150 mRL
4 th	34998.75	13999.50	3545.50	161 mRL - 156 mRL
5 th	34941.37	13976.55	4716.45	161 mRL - 150 mRL
Total	174939.55	69975.78	19498.67	

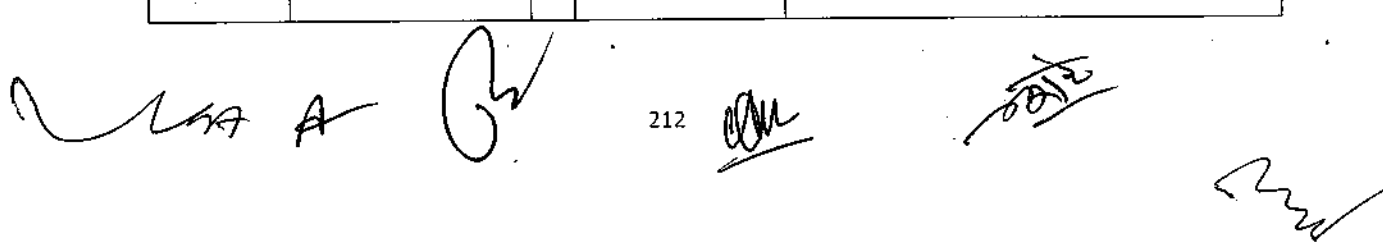
Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation / old pit	0.188	0.954	0.954 (will be converted in to water reservoir)
Waste dump	Nil	0.138 (within quarry)	Nil
Road	0.005	Nil	Nil
Proposed crusher	Nil	0.05	0.05
Plantation (green belt)	Nil	0.21	0.21
Total	0.193	1.214	1.214

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.21 ha	530
2	Haul /Approach Road	0.10 km	600



- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management


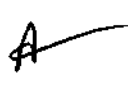

There will be total 19498.67 cum waste shall be generated during the plan period. Part of the waste in 1st two years shall be temporarily dumped in southern direction of the lease area. During 1st and 2nd year dump shall be backfilled with 5th year excavation which will also be reclaimed by backfilling.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice




- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming :

- Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- The Boundary Pillars of the proposed mine lease area will be maintained properly.
- One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Chhota Lakha Stone Deposit of Shri Arun Kumar Tudu, Village : Chhota Lakha, Thana : Chandil, Dist. : Saraikela Kharsawan, Jharkhand (1.214 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

15. Nachibera Brick Earth Deposit of M/s Maa Bricks (Prop. : Sh. Rajib Lochan Mandal), Village : Nachibera, Thana : Patamda, Thana no. : 131, Dist. : East Singhbhum, Jharkhand (1.88 Ha).

(Proposal No. : SIA/JH/MIN/244784 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

SI	Parameter	Details
1	Project Name	: Nachibera Brick Earth Deposit
2	Lessee:	: M/s MAA Bricks Prop.-Sh. Rajib Lochan Mandal

		S/O Shri Bhupal Mandal Village- Supudih, Tola- Kodogora, P.S.-Bandwan. Dist-Purulia, WB. Pincode-723129	
3	Lease Address	: Village: Nachibera, Thana.- Patamda, District- East Singhbhum, Jharkhand	
4	Lease Area	: Ha:1.88 ha	Acres:4.66 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 20 Lakhs	
7	EMP Budget	: Capital: 3.58 Lakhs	Recurring: 2.82Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 27505.00 Cu. M.	Tonnes:35756.50 MT
11	Mine Life	: 22.92 or 23.00 Seasons	
12	Man power	: 11	
13	Water Requirement	: 9.00 KLD (Drinking:0.11 KLD, Dust Suppression:3.62 KLD, Plantation:5.25 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No Crusher	
17	Nearest Water Body	: Sona Nadi, Approx. 9.00 km, WNW Side Subarnareka River, Approx. 18.00 km, SW Side Dimna Reservoir, Approx. 17.00 km, SW Side	
18	Nearest Habitation	: Nachibera, 0.50km	
19	Nearest Rail Station	: Asanboni Railway Station, approx. 23.20 km, SSW Side	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 123.50 km, WNW side	
21	Nearest Forest	: Mathurapur Protected Forest , Approx. 4.0 km NW direction Patamda Protected Forest , Approx. 4.0 km WSW direction Elephant Corridor, Approx. 5.50 km SE direction	
22	Road & Highways	: SH- 5, approx., 7.0 km towards E direction NH-18, approx, 15.40 km towards SW direction	

CO-ORDINATES :

1	Latitude	From 22°53'02.00"N	To 22°53'08.63"N
2	Longitude	From 86°26'09.79"E	To 86°26'15.11"E

LAND DETAILS :

Nachibera	Khata No.	Plot no.
	44	438, 386 & 389

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STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The land argeement has been made on 05.10.2018.
2	CO	:	The CO, Patamda vide letter no. 89, dated 26/02/2019 has mentioned the plot of the project is not recorded as "Jangle Jhari" in Khatiyar.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide letter no. 1365/M dated 02.11.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1597 dated 11/10/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO Jamshedpur Forest Division vide letter no. 3177, dated 08/12/2020 certified that the distance of reserved / protected forest from the Project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, East Singhbhum, Jamshedpur vide letter no. 1499, dated 06.12.2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 06-01-2019
8	Mine Plan Approval	:	Vide letter no. 334/G dated 06/01/2021

Working Details

1	Mining Method	:	Open Cast manual method
2	Quarry Area	:	5 years-0.300 ha Life of Mine - 0.980 ha
3	Waste Generation	:	5 years-Nil Life of Mine - Nil
4	Stripping Ratio	:	1: 0.0
5	Working Days	:	150
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	222 AMSL to 228 AMSL
8	Ground Level Elevation	:	222 AMSL
9	Ultimate Working Depth	:	220 AMSL (2 bgl)
10	Water Table	:	212 AMSL (10 bgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	Not applicable

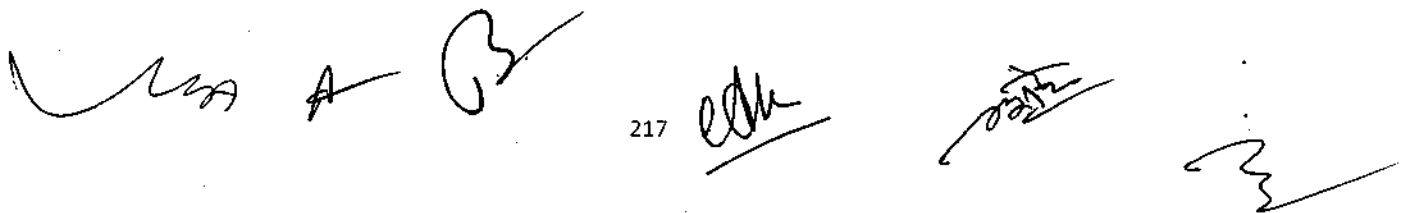
13	Diesel/Fuel requirement	:	3 litre/day
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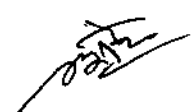

Production details :

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 st	1200.00	600000	1560.00
2 nd	1200.00	600000	1560.00
3 rd	1200.00	600000	1560.00
4 th	1200.00	600000	1560.00
5 th	1200.00	600000	1560.00
Total	6000.00	3000000	7800.00

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarrying	Nil	0.300	0.980 (area shall be reclaimed as cultivated land and handed over to the concern raiyat)
Infrastructure	0.04	0.04	0.04
Storage of casted bricks	Nil	Storage of casted bricks within quarry	Storage of casted bricks within quarry
Plantation at safety zone	Nil	0.220	0.687
Proposed Kiln	Nil	0.173	0.173
Mine Road	Nil	0.005	-
Total	0.04	0.738	1.88
Unused Area	1.84	1.142	0.000
Total Area	1.88	1.88	1.88



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ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.220 ha	1720
2	Haul /Approach Road	:	0.03 km	30

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Nil

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Nachibera Brick Earth Deposit of M/s Maa Bricks (Prop. : Sh. Rajib Lochan Mandal), Village : Nachibera, Thana : Patamda, Thana no. : 131, Dist. : East Singhbhum, Jharkhand (1.88 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

16. Hathigarh Stone Mine of Sri Imran Ali, Village : Hathigarh, Anchal : Littipara, Thana no. : 3, Dist. : Pakur, Jharkhand (2.368 Ha)

(Proposal No. : SIA/JH/MIN/70183/2021).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity-35028.00 cu.m/annum or 98078.0 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	Hathigarh Stone Deposit	
2	Lessee:	Shri Imran Ali S/O Shri Samad Ali Address- Gram-Koriadih, P.O.- Hiranpur, District- Pakur, State - Jharkhand.	
3	Lease Address	Village - Hathigarh, Anchal- Littipara, District - Pakur, State - Jharkhand.	
4	Lease Area	2.368 ha	Acres-5.85 Acres
5	Type of Land	Non Forest - Raiyati Land	
6	Project Cost	Rs. 30 Lakhs	
7	EMP Budget	Capital: 3.53 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	Rs. 0.60Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 428080 cum	Tonnes: 1198624 tons
11	Mine Life	10 years 5 months	
12	Man power	41	
13	Water Requirement	10.30 KLD (Drinking: 0.41KLD, Dust Suppression:4.75 KLD, Plantation:5.1 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	No crusher	
17	Nearest Water Body	Torai River, 4.80km, S direction	
18	Nearest Habitation	Chaukidhab, 0.5km	
19	Nearest Rail Station	Kotalpukur Railway station, 11.20 km	
20	Nearest Air Port	Kazi Nazrul Islam Airport, 132.20 km	
21	Nearest Forest	Protected Forest near Guma Pahar Village, approx. 5.50 km, NW side Protected Forest near Chhota Kendua Village, 1.5 km, ENE side	
22	Road & Highways	NH-114A, Approx. 0.05 km	

CO-ORDINATES

1	Latitude	From 24°43'42.62"N	To 24°43'51.75"N
2	Longitude	From 87°42'45.47"E	To 87°42'52.22"E

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LAND DETAILS

Khata no.	Plot no.
62	938/P, 943, 944
71	960
79	961, 963
21	962

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 777/M, dated 16-06-2021
2	CO	:	The CO, Littipara vide letter no. 376, dated 06.09.2019 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Pakur vide letter no. 1711/M, dated 27.09.2021 certified that 04 other lease (2.50 acre, 5.86 acre, 7.52 acre & 3.00 acre) exist within 500 m radius from proposed project site and total area is 10 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1026, dated 23.06.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 524 dated 12.03.2021 certified that the distance of Reserved Forest / Protected Forest from the project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no. 1412/M dated 12/08/2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 12-09-2019
8	Mine Plan Approval	:	Vide Memo no. 1824/M dated 21.10.2021

Working Details :

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years-1.68 ha Life of Mine - 10 Years 5 months
3	Waste Generation	:	5 years-7086.0 cu.m
4	Stripping Ratio	:	1: 0.11
5	Working Days	:	300

6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	74 AMSL to 56 AMSL
8	Ground Level Elevation	:	147AMSL
9	Ultimate Working Depth	:	56 AMSL (18 m bgl)
10	Water Table	:	48 AMSL (26 m bgl)
11	Topography of Mine	:	Area represents an almost flat land with two hillocks
12	Explosive Requirement	:	50 kg slurry explosive
13	Diesel/Fuel requirement	:	8 liter/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 st	97888.00	34960.00	3961.00	74mRL - 68mRL
2 nd	97961.00	34986.00	3125.00	74 mRL - 68 mRL
3 rd	98067.00	35024.00	Nil	68mRL - 62mRL
4 th	98078.00	35028.00	Nil	68mRL - 62mRL
5 th	97902.00	34965.00	Nil	68mRL - 56mRL
Total	489896.00	174963.00	7086.00	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	-	0.85	1.68 ha (Entire area will be converted into water reservoir)
Haul Road	-	0.03	0.02
Proposed Crusher	-	-	-
Green belt in Safety Barrier	-	0.66	0.66
Dump with Parapet Wall & Garland Drain	-	0.23	Nil (Waste dump to be removed and backfilled)
Total Area in use	-	1.77	2.36
Balance Unused Area	2.368	0.598	0.008
Total Applied Area	2.368	2.368	2.368

ENVIRONMENT MANAGEMENT
Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.66 ha	1650
2	Haul /Approach Road	:	0.05 km	50

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management



- Waste Generation will be 7086.0 cum (dump area- 0.23 ha) during the plan period. During plan period the proposed waste shall be temporarily dumped at site and used for maintenance of road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.



- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming :

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

The consultant declared that baseline data collection has been done during the period October, 2021 to December, 2021 and also requested to make a common EIA for the 02 projects i.e. Hathigarh Stone Mine of Sri Imran Ali, Village : Hathigarh, Anchal : Littipara, Thana no. : 3, Dist. : Pakur, Jharkhand (2.368 Ha).

&

Hathigarh Stone Mine of Sri Ajjul Islam, Village : Hathigarh, Anchal : Littipara, Thana no. : 3, Dist. : Pakur, Jharkhand (2.814 Ha).

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing

of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

17. Hathigarh Stone Mine of Sri Ajijul Islam, Village : Hathigarh, Anchal : Littipara, Thana no. : 3, Dist. : Pakur, Jharkhand (2.814 Ha).

(Proposal No. : SIA/JH/ MIN/69563 /2021).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity- 43,272 cum/annum or 1,21,162 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Hathigarh Stone Deposit
2	Lessee:	: Shri Azizul Islam S/o Late Khan Mohammad Address- Gram- Kamalghati, P.O.- Hiranpur, District– Pakur, State – Jharkhand.
3	Lease Address	: Village – Hathigarh, Anchal- Littipara, District – Pakur, State – Jharkhand.
4	Lease Area	: 2.814 ha Acres-6.95 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 4.84 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.70Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 475603 cum Tonnes: 1331688 tons
11	Mine Life	: 11 years
12	Man power	: 41
13	Water Requirement	: 12.80 KLD (Drinking: 0.41KLD, Dust Suppression:6.40 KLD, Plantation:5.94 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai River, 4.80km, S direction
18	Nearest Habitation	: Hathigarh, 0.3 km
19	Nearest Rail Station	: Kotalpukur Railway station, 11.80 km , E direction
20	Nearest Air Port	: Kazi Nazrul Islam Airport, 131.80 km, S direction

21	Nearest Forest	:	Protected Forest near Guma Pahar Village, approx. 5.50 km, NW side Protected Forest near Chhota Kendua Village, 1.5 km, ENE side
22	Road & Highways	:	NH-114A, Approx. 0.30 km, ESE direction

CO-ORDINATES :

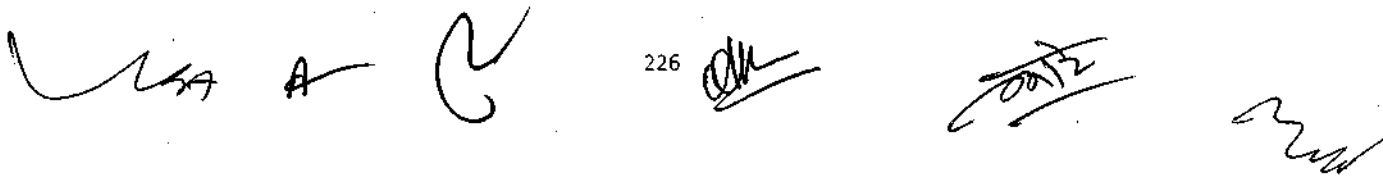
1	Latitude	From 24°43'40.47"N	To 24°43'49.44"N
2	Longitude	From 87°42'21.99"E	To 87°42'30.58"E

LAND DETAILS :

1	Hathigarh	:	KHATA NO.	PLOT NO.
			88/Ka	909
			61	910, 1077, 1079
			39	911, 912
			26	1052
			86	1053
			74	1078

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1081/M, dated 07-07-2021.
2	CO	:	The CO, Littipara vide letter no. 382, dated 07-09-2019 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1712/M, dated 27-09-2021 certified that 04 other lease (2.50 acre, 3.00 acre, 7.52 acre & 5.86 acre) exist within 500 m radius from proposed project site and total area is 10.45 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1881, dated 01-11-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 748 dated 06-05-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no 1412/M dated 12/08/2021 has informed that this project is part of District Survey


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		Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 12-09-2019
8	Mine Plan Approval	: Vide Memo no. 1826/M dated 21.10.2021

Working Details

1	Mining Method	: Opencast Mechanized Mining method
2	Quarry Area	: 5 years-1.84 ha Life of Mine – 2.13 ha
3	Waste Generation	: 5 years-19093.0 cu.m
4	Stripping Ratio	: 1: 0.02
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m
7	Elevation of Mine	: 95 AMSL to 77 AMSL
8	Ground Level Elevation	: 98 AMSL
9	Ultimate Working Depth	: 77 AMSL (21 m bgl)
10	Water Table	: 72 AMSL (26 m bgl)
11	Topography of Mine	: Area represents an almost flat land with two hillocks
12	Explosive Requirement	: 50 kg slurry explosive
13	Diesel/Fuel requirement	: 9 liter/day

Production Details

Year	Production of Stone in Tonnes	Production of stone in cum	Waste (tones)	Waste(cum)
1st	121027	43224	22863	15242
2nd	121162	43272	5777	3851
3rd	121136	43263	00	00
4th	121097	43249	00	00
5th	121044	43230	00	00
Total	605466	216238	28640	19093

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	-	1.84	2.13(Entire area will be converted into water reservoir)
Haul Road	0.00	0.04	0.03
Proposed Crusher			
Safety Zone Plantation	-	0.65	0.65

Dump with Parapet wall & Garland Drain	-	0.21	-
Total Area in use	0.00	2.74	2.810
Unused Area	2.814	0.07	0.004
Total Applied Area	2.814	2.814	2.814

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	Location	Area/Length	No of Trees
1	Safety Zone	: 0.65 ha	1630
2	Haul /Approach Road	: 0.35 km	350

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 19093.0 cum (dump area- 0.21 ha in plan period) during the plan period. During Plan period gritty soil removed will be dumped at Southern part of the area with suitable precautions like parapet wall and garland drain. The small quantity of the removed gritty soil would also be used for road dressing and plantation. At conceptual period dump will be removed & will be used for backfilling.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.

- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.




Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing



of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

18. Sugasarwa Stone Deposit of Smt. Deepa Devi, Village : Sugasarwa, Thana : Chainpur, Dist. : Gumla, Jharkhand (1.21 Ha).

(Proposal No. : SIA/JH/ MIN/252563 /2022).

PAs not present. The proposal will be taken up for consideration after receiving of request from PAs.

19. Shankardih Stone Deposit of M/s Shri Hari Minerals, Village : Shankardih, Thana & Tehsil : Dumri, Dist. : Giridih, Jharkhand (1.04 Ha).

(Proposal No. : SIA/JH/ MIN/251580 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 32,220 cum/ annum or 86,994.00 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Shankardih Stone Deposit
2	Lessee:	: M/ s Shri Hari Minerals Partners – Sri Prateek Agrawal, S/o Sri Krishna Kumar Agrawal At Po-Jhumri Tilaiya, District- Koderma, Jharkhand. 2nd Partner- Sri Gangadhar Prasad Sahu, S/o Late Chetlal Sahu At PO- Inderwa , District- Koderma, Jharkhand
3	Lease Address	: Village-Shankardih, Thana-Dumri, District -Giridih, State :-Jharkhand
4	Lease Area	: 1.04ha Acres- 2.5825 acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 20 Lakhs
7	EMP Budget	: Capital: 3.26 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 321120.00 cum Tonnes: 867024.00 tons
11	Mine Life	: 10.00 years
12	Man power	: 20
13	Water Requirement	: 9.5 KLD (Drinking: 0.2KLD, Dust Suppression:5.20 KLD, Plantation:3.84 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher.

17	Nearest Water Body	: Jamunia River, 3.0 km., S direction. Mahobera river, 9.30 km. NW direction.
18	Nearest Habitation	: Thakurchak, 0.70 km
19	Nearest Rail Station	: Bholdih Railway station, 2.10 km
20	Nearest Air Port	: Birsa Munda Airport, Ranchi Airport, 105 km
21	Nearest Forest	: PF near Ratanpur village Approx. 4.5 km. in SE direction. PF near Kuramu village Approx. 7.8 km. in ESE direction. PF near Paharpur village Approx. 5.3 km. in SE direction. Parasnath PF Approx. 3.0 km. in N direction.
22	Road & Highways	: NH-19, Approx. 0.90 km.

CO-ORDINATES :


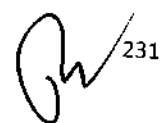

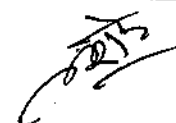

1	Latitude	From 23°54'57.17"N	To 23°55'02.09"N
2	Longitude	From 86°07'29.02"E	To 86°07'35.14"E

LAND DETAILS :

Shankardih	Khata No.	Plot No.
	47	912(P)
	136	828 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Giridih vide letter no. 1059/M, dated 17.12.2021.
2	CO	: The CO, Dumri (Giridih) vide letter no. 710 dated 09.12.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	: DMO, Giridih vide memo no. 15/M, dated 04.01.2022 certified that total lease within 500 m radius from proposed project is less than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 2185, dated 06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Giridih East Forest Division vide letter no. 3222 dated 14.12.2021 certified that the distance of reserved / .protected

		forest from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Giridih vide letter no 08/M, dated 03.01.2022 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 26-11-2021
8	Mine Plan Approval	: Vide letter no. 817/G on 27.12.2021

Working Details

1	Mining Method	: Opencast Semi - Mechanized Mining method.
2	Quarry Area	: 5 years– 0.473 ha Life of Mine – 0.638 ha
3	Waste Generation	: 5 years– 3420.00 cu.m
4	Stripping Ratio	: 1: 0.008
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 262 AMSL to 265 AMSL
8	Ground Level Elevation	: 250 AMSL
9	Ultimate Working Depth	: 241 AMSL (9 mbgl)
10	Water Table	: 230 AMSL (20 mbgl)
11	Topography of Mine	: Area represents a Flat topography.
12	Explosive Requirement	: 3.6 kg/day explosive cartridge
13	Diesel/Fuel requirement	: 6 liter/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	80433.00	29790.00	1890.00	265 mRL – 259 mRL
2 nd	83835.00	31050.00	1530.00	263 mRL - 259 mRL
3 rd	86994.00	32220.00	-	259 mRL – 253 mRL
4 th	86994.00	32220.00	-	259 mRL - 247 mRL
5 th	86994.00	32220.00	-	259 mRL - 247 mRL
Total	425250.00	157500.00	3420.00	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	0.473	0.638 (entire area will be converted into water reservoir)
Road	0.005	0.003	0.003
Safety Zone Plantation	Nil	0.399	0.399
Total	0.005	0.875	1.04
Unused Area	1.035	0.165	0.000
Total leasehold area	1.04	1.04	1.04

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.399 ha	1000
2	Haul /Approach Road	:	0.28 km	280

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Pit layout has been shown in development plan & section and there is 3420.00 cum waste generated during this mining plan period, so there is no requirement of waste dumping Plan for this mining plan but it will be used for village road and approach road maintenance.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing

discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

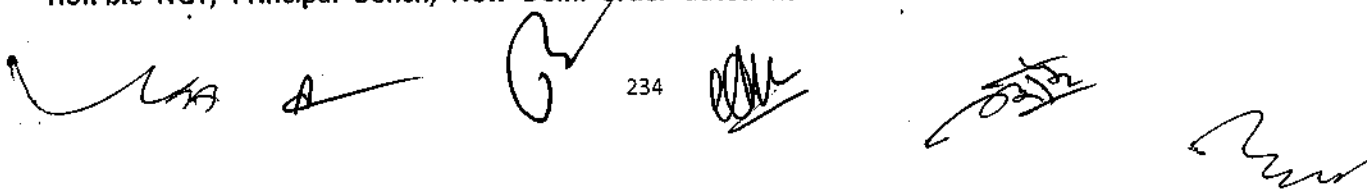
Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated

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12.12.18 decided that the proposal for Shankardih Stone Deposit of M/s Shri Hari Minerals, Village : Shankardih, Thana & Tehsil : Dumri, Dist. : Giridih, Jharkhand (1.04 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

20. Shankardih Stone Deposit of M/s Shri Shankar Stone Mines, Village : Shankardih, Thana : Dumri, Dist. : Giridih, Jharkhand (3.19 Ha).

(Proposal No. : SIA/JH/ MIN/251582 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 41250.00 cum/ annum or 111375.00 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Shankardih Stone Deposit
2	Lessee:	: M/s Shri Shankar stone mines Partners – Sri Manoj Mehta 2nd Partner- Sri Santosh Mehta Village-Phulwariya, Thana-Nawalsahi, District-Koderma, State- Jharkhand.
3	Lease Address	: Village-Shankardih, Thana-Dumri, District -Giridih, State :-Jharkhand
4	Lease Area	: 1.29 ha Acres- 3.19 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 25 Lakhs
7	EMP Budget	: Capital: 3.25 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.50 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 414900.00 cum Tonnes: 1120230.00 tons
11	Mine Life	: 10.00 years
12	Man power	: 20
13	Water Requirement	: 8.0 KLD (Drinking: 0.2 KLD, Dust Suppression: 3.61 KLD, Plantation: 3.93 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Jamunia River, 3.0 km., S direction. Mahobera river, 9.30 km. NW direction.
18	Nearest Habitation	: Amalkuri, 0.50 km
19	Nearest Rail	: Bholdih Railway station, 2.50 km

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	Station	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi Airport, 105 km
21	Nearest Forest	: PF near Ratanpur village Approx. 4.5 km. in SE direction. PF near Kuramu village Approx. 7.8 km. in ESE direction, PF near Paharpur village Approx. 5.3 km. in SE direction. Parasnath PF Approx. 3.0 km. in N direction.
22	Road & Highways	: NH-19, Approx. 0.50 km.

CO-ORDINATES :

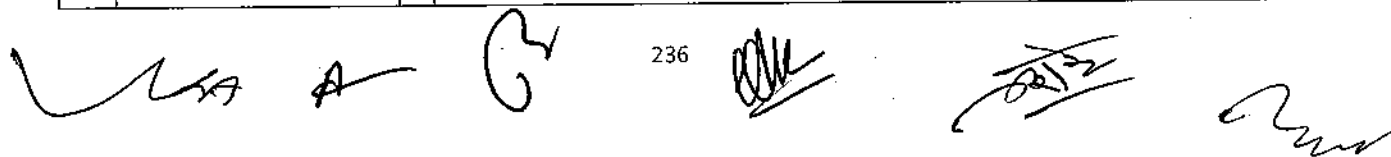
1	Latitude	From 23°55'08.45"N	To 23°55'12.47"N
2	Longitude	From 86°07'34.52"E	To 86°07'40.63"E

LAND DETAILS :

	KHATA NO.	PLOT NO.
Shankardih	168	814 & 843
	07	815
	70	818
	03	838
	88	841

STATUTORY CLEARANCES :

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Giridih vide letter no. 1060/M, dated 17.12.2021
2	CO	: The CO, Dumri (Giridih) vide letter no. 709 dated 09.12.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	: DMO, Giridih vide memo no. 14/M, dated 04.01.2022 certified that total lease within 500 m radius from proposed project is less than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 2180, dated 06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Giridih East Forest Division vide letter no. 3164 dated 10.12.2021 certified that the distance of reserved / protected forest from the project site is more than 250 m.



6	DSR	:	The DC-cum-District Magistrate, Giridih vide letter no 08/M, dated 03.01.2022 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 26-11-2021
8	Mine Plan Approval	:	Vide letter no. 816/G on 27.12.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years- 0.865 ha Life of Mine - 0.865 ha
3	Waste Generation	:	5 years- 3600.00 cu.m
4	Stripping Ratio	:	1: 0.006
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	270 AMSL to 275 AMSL
8	Ground Level Elevation	:	250 AMSL
9	Ultimate Working Depth	:	245 AMSL (5 mbgl)
10	Water Table	:	230 AMSL (20 mbgl)
11	Topography of Mine	:	Area represents a Flat topography.
12	Explosive Requirement	:	3.6 kg/day explosive cartridge
13	Diesel/Fuel requirement	:	6 liter/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	104085.00	38550.00	1950	275 mRL - 269 mRL
2 nd	108945.00	40350.00	1650	272 mRL - 263 mRL
3 rd	111375.00	41250.00	-	269 mRL - 263 mRL
4 th	111375.00	41250.00	-	269 mRL - 263 mRL
5 th	111375.00	41250.00	-	263 mRL - 257 mRL
Total	547155.00	202650.00	3600.00	

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Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.865(0.003 ha roads comes under)	0.865 (entire area will be converted into water reservoir)
Road	0.006	0.003	0.003
Safety Zone Plantation	Nil	0.422	0.422
Total	0.006	1.290	1.290
Unused Area	1.284	-	0.000
Total leasehold area	1.29	1.29	1.29

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.422ha	1060
2	Haul /Approach Road	: 0.25 km	250

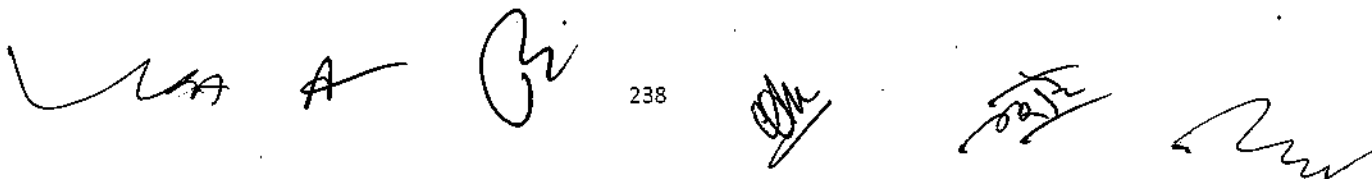
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Pit layout has been shown in development plan & section and there is 3600.00 cum waste generated during this mining plan period, so there is no requirement of waste dumping Plan for this mining plan but it will be used for village road and approach road maintenance.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of



suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.

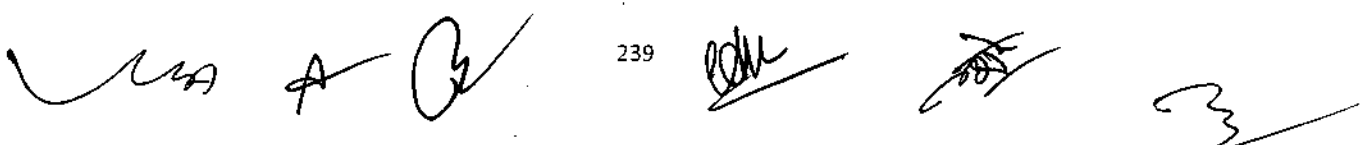



- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.

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- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Shankardih Stone Deposit of M/s Shri Shankar Stone Mines, Village : Shankardih, Thana : Dumri, Dist. : Giridih, Jharkhand (3.19 Ha).is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

21. Kuchu Stone Deposit of M/s Damodar Enterprises, Village : Kuchu, Thana : Angara, Dist. : Ranchi, Jharkhand (2.44 Ha).

(Proposal No. : SIA/JH/ MIN/251579 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity-69,560.4 cu.m/annum or 1,87,813.08 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Kuchu Stone Deposit
2	Lessee:	: M/s Damodar enterprises (Partner - Shri. Prabhat kumar) At Village – Saraiyatola, P.O – Sonda , P.S.- Patratu District–Ramgarh, State – Jharkhand.
3	Lease Address	: Village –Kuchu, Thana- Angara, District – Ranchi, State –Jharkhand.
4	Lease Area	: 2.440 ha Acres-6.03 acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 3.98 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 3,47,253.2 cum Tonnes: 9,37,583.64 tons
11	Mine Life	: 05 years
12	Man power	: 25
13	Water Requirement	: 10.5KLD (Drinking: 0.25 KLD, Dust Suppression:5.4KLD, Plantation: 4.47 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Subarnarekha River, approx. 0.30 km towards North direction.

18	Nearest Habitation	:	Kuchu, 0.4 km, SE direction.
19	Nearest Rail Station	:	Jonha Railway station, approx.9.20 km, SSW direction.
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, approx. 35 km, WSW direction
21	Nearest Forest	:	PF near Kuchu Village approx. 0.20 km towards West direction. Dense Jungle mainly Sal, Paina Pahar Approx. 4.5 km towards SSW direction. Dense mixed jungle, near Chirudih village Approx. 3.5 km towards E direction. Open Mixed Jungle, near Pipratoli village Approx 4.0 km towards NW direction
22	Road & Highways	:	NH-320 at approx. 6.0 km. in NW direction.

CO-ORDINATES :

1	Latitude	From 23°26'04.2742"N	To 23°26'09.4946"N
2	Longitude	From 85°38'44.8762"E	To 85°38'53.8382"E

LAND DETAILS :

	Khata No.	Plot No.
Kuchu	82	259, 260, 261, 262, 264, 266, 267 & 302

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Ranchi vide letter no. 987/M, dated 27.11.2021
2	CO	:	The CO, Angara, Ranchi vide letter no. 691 dated 02.09.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Ranchi vide memo no. 1021 dated 11.12.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Ranchi vide letter no. 1125 dated 14.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 2478 dated 08.09.2021 certified that the distance of reserved / protected forest from the project site is more than 250 m.

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6	DSR	: The DC-cum-District Magistrate, Ranchi vide letter no. 1151/M, dated 30.12.21 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 15-09-2021 & 26.09.2021
8	Mine Plan Approval	: Vide Memo no. 801/G on 14.12.2021

Working Details :

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-1.842ha Life of Mine - 1.842ha
3	Waste Generation	: 5 years-44814 cu.m
4	Stripping Ratio	: 1:0.4
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 497 AMSL to 523AMSL
8	Ground Level Elevation	: 497 AMSL
9	Ultimate Working Depth	: 492 AMSL (5 mbgl)
10	Water Table	: 482AMSL (15 mbgl)
11	Topography of Mine	: The lease area represents a small hillock
12	Explosive Requirement	: Class - III (special gelatin)& Class -VI explosive (detonator, electric detonator) is used
13	Diesel/Fuel requirement	: 10 liter/day

Production Details :

Year	Total excavation of stone		Overburden in cum	Intercalated in cum	Total waste in cum
	Cum	MT			
1st	69560.40	187813.08	4340.00	7098.00	11438.00
2nd	69423.00	187442.64	2520.00	7084.00	9604.00
3rd	69423.00	187442.64	840.00	7084.00	7924.00
4th	69560.00	187813.08	0.00	7098.00	7098.00
5th	69286.00	187072.20	1680.00	7070.00	8750.00
Total	347252.4	937583.64	9380.00	35434.00	44814.00

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Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	1.842	1.842 (0.400 ha area shall be backfilled,1.294 ha converted in to water reservoir & 0.148 ha shall be left as dead benches)
Road	Nil	0.003	0.003
Waste Dump	Nil	Nil	Nil
Infrastructure	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.595	0.595
Total	Nil	2.440	2.44
Unused Area	2.44	0.000	0.000
Leasehold Area	2.44	2.440	2.44

ENVIRONMENT MANAGEMENT



Green Belt Development

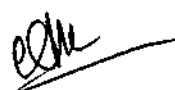
S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.595 ha	1490
2	Haul /Approach Road	:	0.40km	400

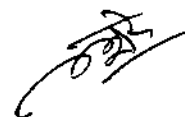
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- About **44814.00 cum waste** (9380 cu.m OB & 35434 cu.m. intercalated waste) will be generated. The OB consist of weathered rock intermixed with soil.







- The generated waste will be dump temporarily on the Eastern side of the lease area during 1st to 4th year & waste generated during 5th year & waste of temporarily dump will be used for backfilling of exhausted quarry in Eastern part which cover 0.4 ha

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard

- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kuchu Stone Deposit of M/s Damodar Enterprises, Village : Kuchu, Thana : Angara, Dist. : Ranchi, Jharkhand (2.44 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

22. Amjhor Stone Deposit of M/s Om Stone Works, Village : Amjhor, Thana : Jirwabari, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (1.214 Ha).

(Proposal No. : SIA/JH/ MIN/251891 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity-10241.00 cu.m/annum or 29698.90 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Amjhor Stone Deposit
2	Lessee:	: M/S Om Stone Works (Partner- 1.Sri J.P Yadav 2.Sri Sanjay Kumar 3.Sri Amit Malto 4.Sri Bharat Bhushqn Tiwary Address-KuthariColgong, Bhagalpur,Bihar-813203
3	Lease Address	: Village – Amjhor, Thana- Jirwabari, District – Pakur, State –Jharkhand.
4	Lease Area	: 1.62ha Acres-3.00Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 25 Lakhs
7	EMP Budget	: Capital: 1.93Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.50Lakhs

9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.m.:102606.90 cum Tonnes: 297560.01tons
11	Mine Life	:	10.00 years
12	Man power	:	22
13	Water Requirement	:	6.00 KLD(Drinking: 0.22KLD,Dust Suppression:2.9 KLD, Plantation:2.7 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Ganga River, 8.00km, N direction
18	Nearest Habitation	:	Marikuti, 3.0km
19	Nearest Rail Station	:	Karamtola Railway station, 4km
20	Nearest Air Port	:	Durgapur Airport, 182km
21	Nearest Forest	:	Protected Forest near Jani Village, approx.1.6 km, NW side Protected Forest near Lahubera Village, 3.6 km, NW side
22	Road & Highways	:	NH-80 , Approx. 4.00 km

CO-ORDINATES :

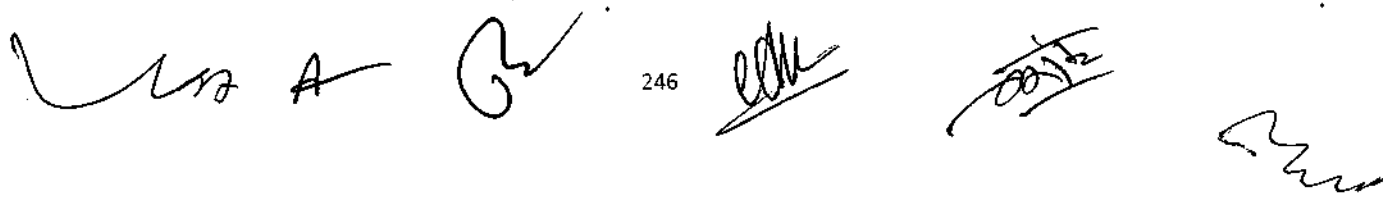
1	Latitude	From 25°14'00.1618"N	To 25°14'04.8095"N
2	Longitude	From 87°33'02.4367"E	To 87°33'08.3597E

LAND DETAILS :

1	Amjhor	:	Khata No.	Plot No.
			15	251(P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Sahibganj vide letter no. 980/M , dated 27.09.2021
2	CO	:	The CO, Mand vide memo no. 829, dated 29.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pukur vide memo no. 981/M, dated 27.09.2021 certified that no other lease exists within 500 m radius from proposed project



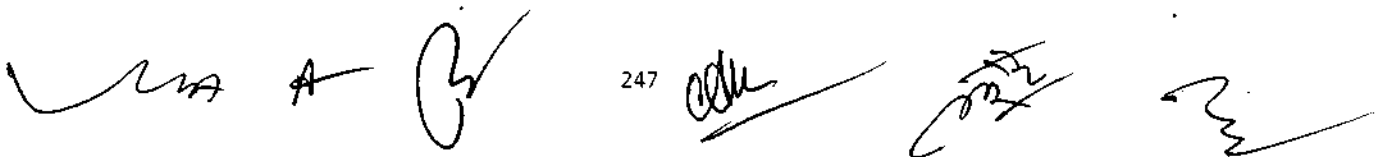
		site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1957, dated 14.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Sahibganj Forest Division vide letter no. 829 dated 15.06.2019 certified that the distance of notified forest from the project site is 270 m.
6	DSR	: The DC-cum-District Magistrate, Sahibganj vide letter no. 1154/M dated 29/11/2021 has informed that this project is part of District Survey Report (DSR) at Sahibganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 25-08-2019
8	Mine Plan Approval	: Vide letter no. 1037/M dated 11.10.2021

Working Details :

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-0.575ha Life of Mine - 0.871 ha
3	Waste Generation	: 5 years-10919.65cu.m
4	Stripping Ratio	: 1: 0.03
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m
7	Elevation of Mine	: 147AMSL to 174AMSL
8	Ground Level Elevation	: 147AMSL
9	Ultimate Working Depth	: 134 AMSL (13mbgl)
10	Water Table	: 127 AMSL (20mbgl)
11	Topography of Mine	: Area represents a small hillock
12	Explosive Requirement	: Class - III (special gelatin)& Class -VI explosive (detonator, electric detonator) is used
13	Diesel/Fuel requirement	: 8 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	29698.90	10241.00	3675.00	166mRL - 154mRL


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2 nd	29428.91	10147.90	1318.10	166 mRL - 154 mRL
3 rd	29563.91	10194.45	1908.55	154mRL - 148mRL
4 th	29698.90	10241.00	735.00	154 mRL - 148 mRL
5 th	29698.90	10241.00	3283.00	148mRL - 142mRL
Total	148089.52	51065.35	10919.65	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.575	0.871(0.088 ha area shall be backfilled and after backfilling entire area will be converted into water reservoir).
Road	Nil	0.021	0.005
Waste Dump	Nil	0.186	Nil (waste dump to be removed and backfilled)
Crusher	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.338	0.338
Total	Nil	1.120	1.214
Unused Area	1.214	0.094	0.000
Lease hold Area	1.214	1.214	1.214

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.338ha	850
2	Haul /Approach Road	0.05 km	50

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine

as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 10919.65cum (dump area- 0.186 ha & height- 5 m) during the plan period. During plan period the proposed waste shall be temporarily dump on western side of the applied area.

Water Quality Management




- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goods sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccharoad shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.







- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Amjhor Stone Deposit of M/s Om Stone Works, Village : Amjhor, Thana : Jirwabari, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (1.214 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

23. Dohakatu Stone Mine of Kumari Deepmala and Smt. Meena Devi, Village : Dohakatu, Thana : Ramgarh, Dist. : Ramgarh, Jharkhand (1.65 Ha).

(Proposal No. : SIA/JH/ MIN/251707/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 30243 cu.m/annum or 84,680 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Dohakatu Stone Mine
2	Lessee:	: Kumari Deepmala, D/O – Sri Ravindra Paswan, Village – Kathal Tola, P.O.+P.S. - Sohsarai, District- Nalanda, Bihar. Smt. Meena Devi, W/O- Sri Satyendra Kr. Verma Village + P.O.- Rajgir, P.S. - Rajgir, District- Nalanda, Bihar.
3	Lease Address	: Village – Dohakatu, Thana- Ramgarh, District – Ramgarh, State – Jharkhand.

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4	Lease Area	:	1.65 ha	Acres-4.07 Acres
5	Type of Land	:	Non Forest – Raiyati Land	
6	Project Cost	:	Rs. 25 Lakhs	
7	EMP Budget	:	Capital: 3.63 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.50Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.m.: 1,51,223.21cum	Tonnes: 4,23,425 tons
11	Mine Life	:	5.00 years	
12	Man power	:	50	
13	Water Requirement	:	9.45 - 9.5 KLD(Drinking: 0.50KLD,Dust Suppression:3.70 KLD, Plantation:5.25 KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	-	
16	Crusher	:	No crusher	
17	Nearest Water Body	:	Barki Nadi Approx. 4.70 km towards NE direction Subarnarekha River Approx. 9.0 km towards South direction Damodar River Approx. 9.5 km towards North direction	
18	Nearest Habitation	:	Dohakatu, 0.40km	
19	Nearest Rail Station	:	Ramgarh Cantonment Railway station, approx. 7.0 km toward NNW direction	
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi approx. 33.3 km towards SW direction	
21	Nearest Forest	:	Protected Forest near Dohakatu Village Approx. 0.3 km towards NE direction Protected Forest near Manatu Approx. 1.80 km towards SSW direction Protected Forest near Ganeshpur Village Approx. 3.3 km towards South direction	
22	Road & Highways	:	NH-20 Approx. 0.6 km. in NW direction. NH-320 Approx. 6.60 km. in South direction. SH-2 Approx. 4.70 km. in North direction.	

CO-ORDINATES

1	Latitude		From 23°33'13.80"N	To 23°33'20.79"N
2	Longitude		From 85°31'25.14"E	To 85°31'33.97"E

LAND DETAILS :

Khata no.	Plot no.
25	71, 73, 74
09	72

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36	67
18	39
16	68
34	38

STATUTORY CLEARANCES :

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Ramgarh vide letter no. 566/M , dated 16.07.2020.
2	CO	: The CO, Ramgarh vide letter no. 2203, dated 13.09.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	: DMO, Ramgarh vide memo no. 199 dated 25.02.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 2503, dated 19.11.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Ramgarh Forest Division vide letter no. 2714 dated 08-11-2019 certified that the distance of Reserved Forest / Protected Forest from the project site is 260 m.
6	DSR	: The DC-cum-District Magistrate, Ramgarh vide letter no 1406/M dated 14/12/2021 has informed that this project is part of District Survey Report (DSR) at Ramgarh district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 29-07-2020
8	Mine Plan Approval	: Vide Letter no. 442/G dated 01.03.2021

Working Details :

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-0.97ha Life of Mine - 5.00Year
3	Waste Generation	: 5 years-5,207cu.m
4	Stripping Ratio	: 1: 0.07
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 596AMSL to 592AMSL
8	Ground Level Elevation	: 596AMSL

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9	Ultimate Working Depth	:	560 AMSL (32mbgl)
10	Water Table	:	557 AMSL (35mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	Gel explosive is used (3.5 kg/day)
13	Diesel/Fuel requirement	:	9 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	84669	30239	2209	596 mRL – 584 mRL
2 nd	84633	30226	1535	596 mRL - 584 mRL
3 rd	84658	30235	665	596 mRL – 578 mRL
4 th	84672	30240	798	596 mRL - 584 mRL
5 th	84680	30243	0	584 mRL – 566 mRL
Total	423312	151,182.85	5207	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	0.97 (including road)	0.97 (Entire area will be converted into water reservoir)
Road	0.01	0.0	0.0
Safety Zone Plantation	Nil	0.68	0.68
Total	0.01	1.65	1.65
Unused Area	1.64	0.0	0.0
Total Leasehold Area	1.65	1.65	1.65

ENVIRONMENT MANAGEMENT
Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.68ha	1700
2	Haul /Approach Road	:	0.50 km	50

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 5207cum during the plan period. During plan period the proposed waste will be used for plantation and in maintenance of road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 3m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

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- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Dohakatu Stone Mine of Kumari Deepmala and Smt. Meena Devi, Village : Dohakatu, Thana : Ramgarh, Dist. : Ramgarh, Jharkhand (1.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

24. Sundarpahari Stone Deposit of M/s Maa Tara Stone Works, Village : Sundarpahari, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.387 Ha).

(Proposal No. : SIA/JH/ MIN/254593 /2022).

Project Category: B2 – Application for Environment Clearance

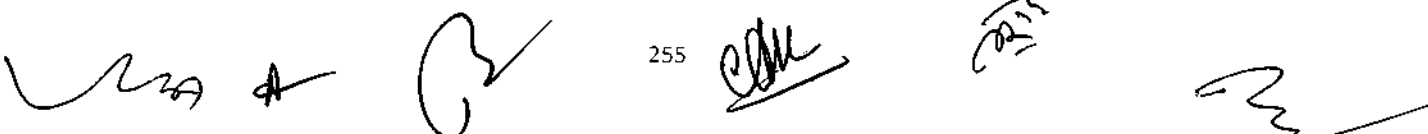
EC Application for: Proposed Capacity- 31,666.05 cu.m/annum or 85,498.33 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

PROJECT and LOCATION Details:

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Sl	Parameter	Details	
1	Project Name	Sundarpahari Stone Deposit	
2	Lessee:	M/S Maa Tara Stone Works Prop.- Sh. Chiranjit Prasad At Village, P.O. and Thana-Nalhati, District- Birbhum, West Bengal.	
3	Lease Address	Village – Sundarpahari, Thana- Maheshpur, District – Pakur, State – Jharkhand.	
4	Lease Area	2.387 ha	Acres-5.90 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 35 Lakhs	
7	EMP Budget	Capital: 4.10 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	Rs. 0.70Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 256,151.35 cum	Tonnes: 7,42,838.92 tons
11	Mine Life	10.00 years	
12	Man power	29	
13	Water Requirement	10.0 KLD(Drinking: 0.30KLD,Dust Suppression: 6.20 KLD, Plantation:3.50 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	No crusher	
17	Nearest Water Body	Bansloi Nadi Approx. 11.5 km towards N direction.	
18	Nearest Habitation	Sundarpahari, 0.20 km	
19	Nearest Rail Station	Chatra Railway station, approx. 10.5 km toward East direction.	
20	Nearest Air Port	Kazi Nazrul Islam Airport, approx. 100.0 km towards SSW direction.	
21	Nearest Forest	Reserved Forest near Madhupur Village Approx. 9.50 km towards S direction of mine site. Open Eucalyptus jungle RF Approx. 9.20 km towards S direction of mine site.	
22	Road & Highways	NH-14 ,Approx. 13.0 km. in SE direction. SH-7, Approx. 10.5 km in East direction.	

CO-ORDINATES :

1	Latitude	From 24°22'14.9222" N	To 24°22'22.1043" N
2	Longitude	From 87°44'42.4140" E	To 7°44'49.5603" E

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LAND DETAILS :

1	Sundarpahari	:	Khata No.	Plot No.
			09	290, 314, 315 & 316

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1778/M, dated 14.10.2019.
2	CO	:	The CO, Maheshpur vide letter no. 515, dated 17.07.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1928 on 03.11.2021 certified that one lease (4.29 acres) exists within 500 m radius from proposed project site and total area is 4.12 ha.
4	DFO Wild Life	:	DFO Wildlife Hazaribagh vide letter no. 1432, Hazaribag on 25.07.2019 certified that the Udhwa Lake Bird Sanctuary is 66,120 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Division vide letter no. 1090 on 07.09.2019 certified that the distance of reserved / protected forest from the project site is more than 250 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), Pakur district.
7	Gram Sabha	:	on 08-07-2019
8	Mine Plan Approval	:	Vide Memo no. 583/DDM dated 31-12-2019

Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.387 ha Life of Mine - 1.803 Ha
3	Waste Generation	:	5 years-16345.74cu.m
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	81 AMSL to 71 AMSL
8	Ground Level	:	81 AMSL

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	Elevation	
9	Ultimate Working Depth	: 65 AMSL (3 mbgl)
10	Water Table	: 56 AMSL (12 mbgl)
11	Topography of Mine	: Area represents a small hillock
12	Explosive Requirement	: 42 kg slurry explosive
13	Diesel/Fuel requirement	: 8 liter/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	74236.23	25598.70	7795.30	77 mRL – 77 mRL
2 nd	74276.73	25612.67	1348.04	71 mRL - 71 mRL
3 rd	74302.35	25621.5	1999.50	71 mRL – 71 mRL
4 th	74137.05	25564.50	3856.50	71 mRL – 71 mRL
5 th	74186.64	25581.60	1346.40	65 mRL – 65 mRL
Total	371139.00	127979	16345.74	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.387	1.803 (0.138 ha area shall be backfilled & entire area after backfilling will be converted into water reservoir)
Road	0.099	0.03	0.017
Proposed Dump	Nil	0.303	Nil (waste dump shall be removed & backfilled)
Safety Zone Plantation	Nil	0.567	0.567
Unused Area	2.288	0.1	0.000
Total	2.387	2.387	2.387

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.567ha	1420
2	Haul /Approach Road	:	0.28 km	280

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

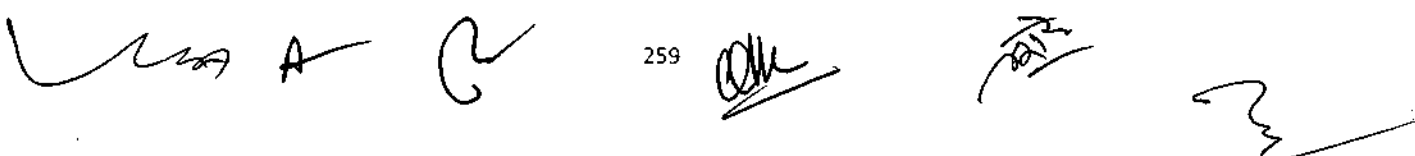
- Waste Generation will be 16345.74cum during the plan period. Part of the waste dumped at site temporarily & will be used in maintenance of road and backfilling.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission



- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Sundarpahari Stone Deposit of M/s Maa Tara Stone Works, Village : Sundarpahari, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.387 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

25. Samarjobra Stone Deposit of M/s Rayson Stone Crusher, Village : Samarjobra, Thana : Patamda, Dist.: East Singhbhum, Jharkhand (2.52 Ha).

(Proposal No. : SIA/JH/ MIN/253215 /2022).

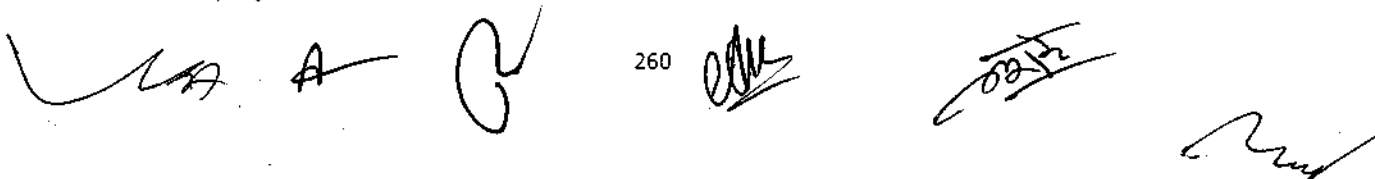
Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 31,666.05 cu.m/annum or 85,498.33 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

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PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	Samarjobra Stone Deposit	
2	Lessee:	M/s Rayson Stone Crusher Proprietor – Shri Sumit Kumar, At-101, Akash Kalsi Tower, Dimna Road, Mango, District – East Singhbhum, Jamshedpur, Jharkhand.	
3	Lease Address	Village – Samarjobra, Thana- Patamda , District – East Singhbhum, State –Jharkhand.	
4	Lease Area	2.52 ha	Acres-6.24 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 35 Lakhs	
7	EMP Budget	Capital: 4.90 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	Rs. 0.70Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 156,869.1 cum	Tonnes: 4,23,546.57 tons
11	Mine Life	5.00 years	
12	Man power	22	
13	Water Requirement	12.0 KLD(Drinking: 0.22KLD,Dust Suppression:5.20 KLD, Plantation:6.60 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	Yes, crusher area- 0.100 ha (including in mining)	
17	Nearest Water Body	Kumari River Approx. 6.3 km. in N direction.	
18	Nearest Habitation	Samarjobra, 0.20 km	
19	Nearest Rail Station	Biramdih Railway station, approx. 29.0 km toward W direction	
20	Nearest Air Port	Birsa Munda Airport Ranchi, approx. 123 Km towards W direction.	
21	Nearest Forest	Tentladih PF Approx. 3.0 km. in SSW direction. PF near Jharnakocha village Approx. 3.5 km. in NNW direction. Protected Forest Approx. 4.5 km. in ESE direction.	
22	Road & Highways	NH-116B, Approx. 6.0 km. in N direction.	

CO-ORDINATES :

1	Latitude	From 22°59'19" N	To 22°59'25" N
2	Longitude	From 86°28'25" E	To 86°28'38"E

LAND DETAILS :

Khata no.	Plot no.
14	226, 229, 230, 231, 232, 233
15	175, 176 & 223

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, East Singhbhum Jamshedpur vide letter no. 1179/M , dated 18-09-2021.
2	CO	:	The CO, Patmada vide letter no. 485, dated 25-06-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, East Singhbhum Jamshedpur vide memo no. 1583, dated 27-12-2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1471, dated 21-09-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 686 & 687, dated 12-03-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	:	The DC, East Singhbhum, Jamshedpur vide letter no. 1498/M, dated 06.12.2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 20-05-2021
8	Mine Plan Approval	:	Vide Memo no. 695/M dated 25-09-2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.62 ha Life of Mine - 1.62 ha
3	Waste Generation	:	5 years-72,415 cu.m
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	220AMSL to 208AMSL







8	Ground Level Elevation	:	220 AMSL
9	Ultimate Working Depth	:	199 AMSL (9 mbgl)
10	Water Table	:	188 AMSL (20 mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	84 kg slurry explosive
13	Diesel/Fuel requirement	:	9 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	85494.45	31,664.61	14819.29	220 mRL – 204 mRL
2 nd	85498.33	31,666.05	9818.45	216 mRL - 199 mRL
3 rd	85494.69	31,664.70	35183.0	220 mRL – 199 mRL
4 th	85495.17	31,664.88	4558.32	216 mRL – 199 mRL
5 th	81562.85	30,208.464	8036.49	216 mRL – 199 mRL
Total	423545.49	156868.704	72415.55	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation/ old pit	0.174	1.62	1.62 (0.81ha area left as dead bench and rest area shall be left as water reservoir for rain water harvesting)
Road	0.03	Nil	Nil
Waste dump	Nil	Nil	Nil
Proposed crusher	Nil	0.100 (including in mining)	0.100 (including in mining)
Plantation (green belt)	Nil	0.800 (Within safety zone)	0.800 (Within safety zone)
Total	0.204	2.52	2.52
Area unused	2.316	0.0	0.0
Total leasehold area	2.52	2.52	2.52




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ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.800ha	2000
2	Haul /Approach Road	:	0.50 km	200

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

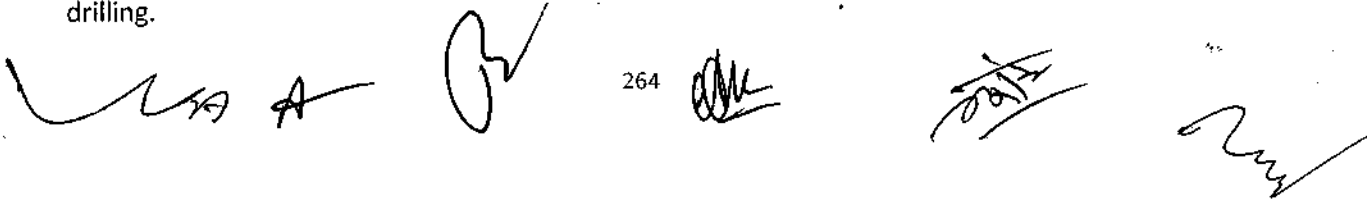
- Waste Generation will be 72415.55 cum during the plan period. Part of the waste shall be used for village & haul road maintenance and part of the waste shall be temporarily dump at southern side of 1st two year excavation and from 3rd year part of quarry will exhausted and gradually backfilling shall be done. As such, no area has been selected for waste dumping.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 11m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.



- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice:
- Ambient air pollution monitoring shall be carried out every six months:

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

During the presentation it was seen that the West Bengal state boundary was about 50 m from the project site. PAs were asked to obtain a clarification in this regard from competent authority.

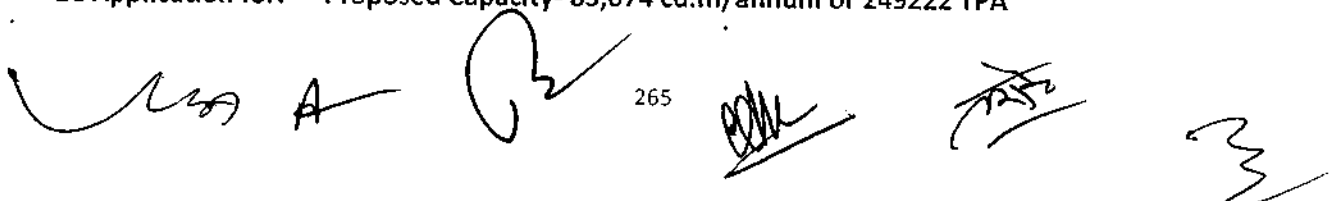
On submission of the same, the project will be taken up for reconsideration.

26. Rajbandh Stone Deposit of M/s Otandas & Co. (Mining) Pvt. Ltd., Village : Rajbandh, Thana : Pakur (M), Dist. : Pakur, Jharkhand (2.22 Ha).

(Proposal No. : SIA/JH/ MIN/256741 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 83,074 cu.m/annum or 249222 TPA

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2	Longitude	From 87°50'13.79"E	To 87°50'42.36"E
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LAND DETAILS :

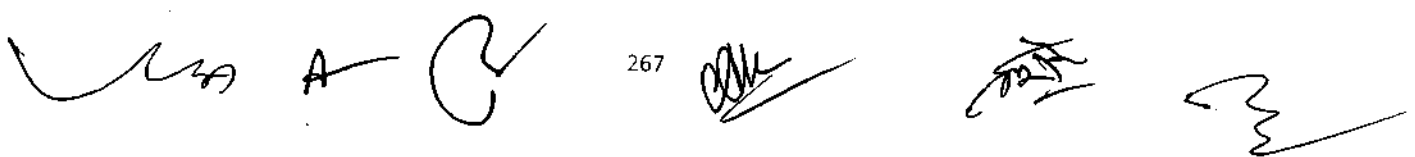
Khata no.	Plot no.
14	523
32	508, 509, 510, 511, 512, 513, 514, 524, 525, 526, 527, 528, 529, 530, 531/P & 532/P
28	444/P, 445, 446
22	520, 521, 522
04	447

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur Vide letter no. 596/M, dated 25-04-2020.
2	CO	:	The CO, Pakur vide letter no. 1226, dated 07-08-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1632/M dated 16.09.2021 certified that one other lease (3.84 acre) exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1231, dated 25-06-2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 657 dated 15-06-2019 certified that the distance of notified forest from the project site is 600 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), Pakur
7	Gram Sabha	:	On 04-09-2019
8	Mine Plan Approval	:	Vide letter no. 189/M on 31.10.2020

Working Details

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years- 1.74 ha. Life of Mine - 1.74 Ha
3	Waste Generation	:	5 years- 37389 cu.m
4	Stripping Ratio	:	1: 0.08



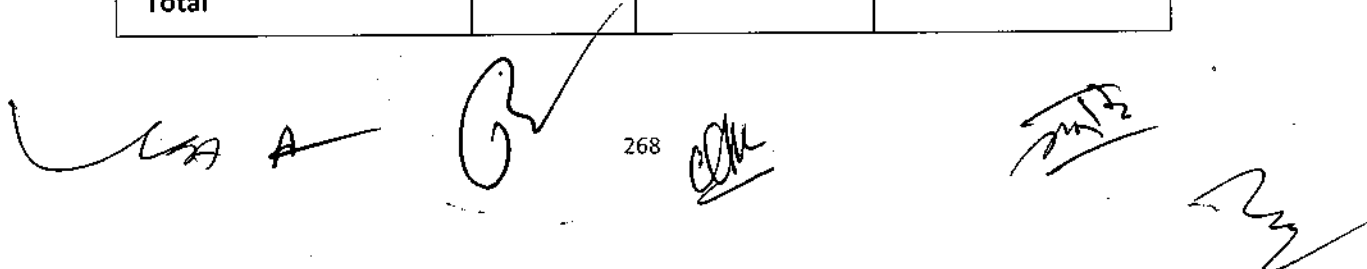
5	Working Days	:	300
6	Benches: size & No	:	6m x 6 m
7	Elevation of Mine	:	50 AMSL to 54 AMSL
8	Ground Level Elevation	:	28 AMSL
9	Ultimate Working Depth	:	12 AMSL (16 mbgl)
10	Water Table	:	9 AMSL (19 mbgl)
11	Topography of Mine	:	Area represents a flat terrain.
12	Explosive Requirement	:	92 kg slurry explosive
13	Diesel/Fuel requirement	:	10 liter diesel/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	83034	249102	21681	54 mRL - 42mRL
2 nd	83014	249042	00	48 mRL - 30 mRL
3 rd	83074	249222	8256	54 mRL - 30 mRL
4 th	83020	249060	00	30 mRL - 12 mRL
5 th	83028	249084	7452	54 mRL - 18 mRL
Total	415170	1245510	37389	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.74	1.74 (entire area will be utilized as water reservoir for rain water harvesting)
Road	0.02	Nil	Nil
Green Belt in safety barrier	Nil	0.48	0.48
Total	0.02	2.22	2.22


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Unused Area	2.20	0.000	0.000
Total applied area	2.22	2.22	2.22

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.480 ha	1200
2	Haul /Approach Road	:	0.030 km	30

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 37389 cum waste (gritty soil) during the plan period. During 1st & 3rd year of mining operation, the removed gritty soil will be dumped at the south-eastern side of the applied lease area with suitable precautions and before starting of 5th year mining, the dumped gritty soil would be backfilled at the central part of the lease area.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.

WMA A B

[Signature]

[Signature]

[Signature]

- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

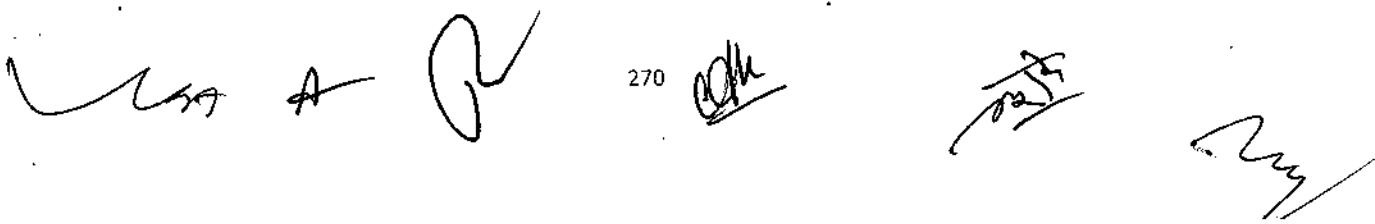

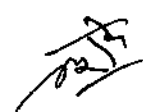

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Rajbandh Stone Deposit of M/s Otandas & Co. (Mining) Pvt. Ltd., Village : Rajbandh, Thana : Pakur (M), Dist. : Pakur, Jharkhand (2.22 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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Day 5 : February 22, 2022 [Tuesday]

Consideration of Proposals

1. Paderkola and Tursadih Stone Mine of M/s Shuman Stone Works, Villiage : Paderkola and Tursadih, Anchal : Hiranpur, Thana no. : 50 & 49, Dist. : Pakur, Jharkhand (2.60 Ha).

(Proposal No. : SIA/JH/MIN/242984 /2021).

Project Category: B2 – Application for Stone Quarry
B2 – Application for Environment Clearance

EC Application for: Boulder Stone: 42854Cu.M. Per Annum / 119991Ton Per Annum
Crusher Proposed in Applied Area
DG Set: 60KV
Mobile Crusher: Yes

Name of the consultant: OCEAO-ENVIRO Management Solutions (India) Pvt. Ltd.

This is a new project which has been taken for appraisal on 22.02.2022.

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: M/s Shuman Stone Works
2	Partner's:	: Sri Md Ishaque Ansari
3	Lease Address	: Mauza – Paderkola and Tursadih, Anchal-Hiranpur, Thana No.- 50&49, District Pakur, Jharkhand
4	Lease Area	: Ha:2.60 ha Acres:6.42Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 75.00 Lakhs
7	EMP Budget	: Capital: 6.86Lakhs Recurring: 3.1Lakh / year
8	CSR / CER Budget	: Rs. 3.15 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 579660Cu. M. Tonnes: 1623048 Tonnes
11	Mine Life	: 13.5 years
12	Man power	: 22
13	Water Requirement	: 8.66 KLD (Drinking:0.66KLD, Water sprinkling:4 KLD, Plantation:4 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: Not Required
16	Crusher	: Not Proposed
17	Nearest Water Body	: Torai River 4 KM
18	Nearest Habitation	: Chaukidhab Village: 0.35 KM towards WSW direction; Pakur 20.17 KM
19	Nearest Rail Station	: Kotalpukur railway station 9.14 ENE direction

20	Nearest Air Port	:	Sido kanhu airport 72.02 SW
21	Nearest Forest	:	NIL
22	Road & Highways	:	NH-80- 14.72KM;

CO-ORDINATES :

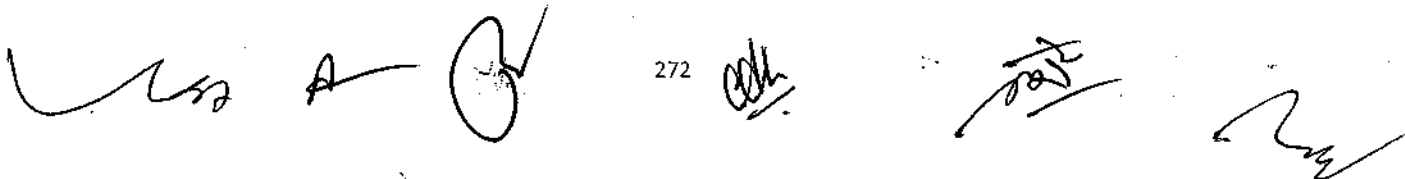
1	Latitude	From 24°43'18.80"N	To 24°43'18.90"N
2	Longitude	From 87°44'08.07"E	To 87°44'04.30"E

LAND DETAILS :

Mauza	Khata No.	Plot No.
Paderkola	07	1006/P, 1007/P
	31	1005/P, 1010/P, 1036/P
	36	1037/P
Tursadih	05	83/P, 84/P
Tursadih	36	82/P

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, vide letter no. 1123/M, Dated 12.07.2021.
2	CO	:	The CO, Hiranpur, Pakur vide letter no. 496/RA, dated 27.11.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan Register II. The CO certificate also indicates presence of 09 houses with the population of 43 inhabitants. The Gram Sabha has mentioned in the letter that operation of the mine will not effect inhabitants as they are located at the distance of 275 m from the mine lease area.
3	DMO	:	DMO, Pakur vide memo no. 1707/M, dated 25.09.2021 certified that one lease (2.31 acre) exists within 500 m radius from proposed project site and total lease area is less than 5 Ha.
4	DFO Wild Life	:	Divisional Forest Officer, Hazaribagh vide letter no. 1894, dated 01.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Vide letter no. 933, dated 19.06.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Pakur, Vide letter no. 1412/ M, dated 12.08.21 has informed that this project is part of District



		Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On Date 16.03.2021
8	Mine Plan Approval	: Memo No. 1542/M, Pakur, Dated 03.09.2021

Working Details

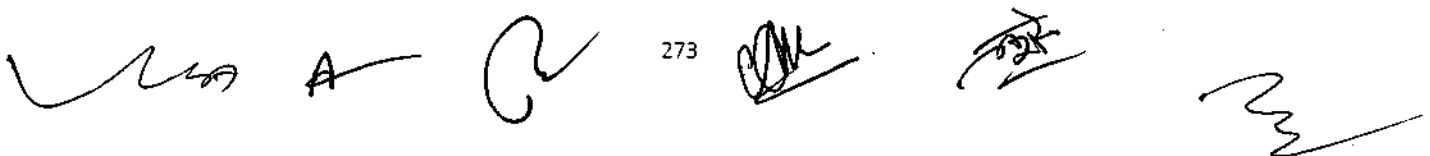
1	Mining Method	: Mechanised, Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	: 5 years-1.40 ha Life of Mine - 1.95 ha
3	Waste Generation	: 5 years-10492 Cu.M Life of Mine - 10492 Cu.M
4	Stripping Ratio	: 1:0.01
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m
7	Elevation of Mine	: 68 m In AMSL
8	Ground Level Elevation	: 67m In AMSL
9	Ultimate Working Depth	: 24m (68Amsl to 42Amsl)
10	Water Table	: 36 Above MSL
11	Topography of Mine	: Flat land
12	Explosive Requirement	: 2Kg/Day
13	Diesel/Fuel requirement	: 396 KL/year

Production Details :

Year	Production of stone (Cum)	Production of stone (Ton)	Removal of gritty Soil & Weathered rock in cum	Bench RL in Meters
1 st	42840	119952	4482	66-60
2 nd	42854	119991	3962	66-60
3 rd	42665	119462	2048	60-54
4 th	42752	119706	00	60-54
5 th	42708	119582	00	54-48
Total	213819	598693	10492	

After years the production is proposed

Year	Generation of waste/O.B in cum	Production of stone in (Cum)	Production of stone in (Ton)
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6 th Year	00	42854	119991
7 th Year	00	42854	119991
8 th Year	00	42854	119991
9 th Year	00	42854	119991
10 th Year	00	42854	119991
11 th year	00	42854	119991
12 th year	00	42854	119991
13 th year	00	42854	119991
14 th year	00	23009	64425
B.)Total production		365841	1024353
Total	00	579660	1623048

Land Use

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.40	1.95	1.95	Water Body
2	Office /Store	0.00	0.00	0.00	0.00	
3	Crusher	0.00	0.20	0.00	0.00	Remove Lease Area
4	Road	0.00	0.03	0.02	0.02	Approach Road
5	Garland Drain with Dump	0.00	0.21	0.00	0.00	Backfilling
6	Safety Zone	0.00	0.63	0.63	0.63	Plantation
7	Settling Tank	0.00	0.001	0.00	0.00	Settling Tank
8	Unutilized	2.60	0.13	0.00	0.00	
9	Utilized Area	0.00	0.00	0.00	0.00	
	TOTAL	2.60	2.60	2.60	2.60	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.63 ha	1008 trees @ 1600 trees per ha
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.56KM	448Plants on both sides – 2.5 m distance

Handwritten signatures and initials: WAA, A, B, [Signature], [Signature], [Signature]

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management


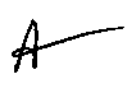


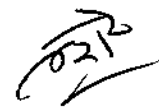

- There is waste to be generated 10492Cu.M. during life of mine which will be reclaimed after life of mine.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months




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Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Paderkola and Tursadih Stone Mine of M/s Shuman Stone Works, Village : Paderkola and Tursadih, Anchal : Hiranpur, Thana no. : 50 & 49, Dist. : Pakur, Jharkhand (2.60 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

2. Bastadih and Asanjola Stone Mine of M/s Ideal Construction, Village : Bastadih and Asanjola, Anchal : Hiranpur, Thana no. : 86 & 83, Dist. : Pakur, Jharkhand (2.105 Ha).

(Proposal No. : SIA/JH/MIN/242937 /2021).

Project Category: B2 – Application for Stone Quarry
B2 – Application for Environment Clearance
EC Application for: Boulder Stone : 36426Cu.M. Per Annum / 101993Ton Per Annum
Crusher not Proposed in Applied Area
DG Set: Not Requirement
Mobile Crusher: N/A

Name of the consultant: OCEAO-ENVIRO Management Solutions (India) Pvt. Ltd.

This is a new project which has been taken for appraisal on 22.02.2022.

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: M/s Ideal Construction

2	Partner's:	:	Sri Rabindranath Bhagat
3	Lease Address	:	Mauza –Bastadih and Asanjola, Anchal-Hiranpur, Thana No.- 86 &83, District Pakur, Jharkhand
4	Lease Area	:	Ha:2.10 ha Acres:5.20 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	65.00 Lakhs
7	EMP Budget	:	Capital: 5.55 Lakhs Recurring: 2.3 Lakh / year
8	CSR / CER Budget	:	Rs. 2.15Lakhs
9	New or Expansion	:	New Project
10	Mineable Reserves	:	Cu.M.: 364164Cu. M. Tonnes: 1019659 Tonnes
11	Mine Life	:	10 years
12	Man power	:	21
13	Water Requirement	:	8.63 KLD (Drinking:0.63KLD,Dust Suppression:3.43 KLD, Plantation:2.0 KLD
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	Not Required
16	Crusher	:	Not Proposed
17	Nearest Water Body	:	Bansloi River 11.50 KM
18	Nearest Habitation	:	Bastadih Village: 0.49 KM towards East direction; Pakur 7.35 KM about SW direction
19	Nearest Rail Station	:	Pakur railway station 14.80 ENE direction
20	Nearest Air Port	:	Sido kanhu airport 60.58 SW
21	Nearest Forest	:	NIL
22	Road & Highways	:	NH-34– 23.73KM;

CO-ORDINATES :

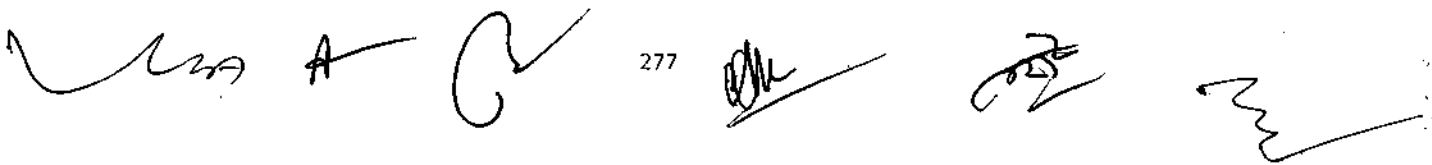
1	Latitude	From 24°35'43.97"N	To 24°35'43.64"N
2	Longitude	From 87°42'52.62"E	To 87°42'54.70"E

LAND DETAILS :

Mauza	Khata No.	Plot No.
Bastadih	07	122
Bastadih	16	123/P, 124/P, 128, 129
Asanjola	13	581/P

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, vide letter no. 1118/M dated 10.07.2021.
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2	CO	: The CO, Hiranpur, Pakur vide letter no. 93/RA, dated 26.02.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II. The CO certificate also indicates presence of 05 houses with the population of 16 inhabitants. The Gram Sabha has mentioned in the letter that operation of the mine will not effect inhabitants as they are located at the distance of 310 m from the mine lease area.
3	DMO	: DMO, Pakur vide memo no. 1708/M, dated 25.09.2021 certified that one lease (7.09 acre) exists within 500 m radius from proposed project site and total lease area is less than 5 Ha.
4	DFO Wild Life	: Divisional Forest Officer, Hazaribagh vide letter no. 1951, dated 14.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division Vide letter no. 552, dated 17.03.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Pakur, vide letter no. 1412/ M, dated 12.08.21 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 10.03.2021
8	Mine Plan Approval	: Letter No. 1463/M, Pakur Dated 21.08.2021

Working Details :

1	Mining Method	: Mechanised, Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	: 5 years-1.14 ha Life of Mine - 1.42 ha
3	Waste Generation	: 5 years-7910 Cu.M Life of Mine - 7910 Cu.M
4	Stripping Ratio	: 1:0.02
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 137m In AMSL
8	Ground Level Elevation	: 136 m In AMSL
9	Ultimate Working Depth	: 20m (136Amsl to 116Amsl)
10	Water Table	: 108 Above MSL
11	Topography of Mine	: Flat land

12	Explosive Requirement	:	16Kg/Day
13	Diesel/Fuel requirement	:	247 KL/year

Production Details :

Year	Production of stone (Cum)	Production of stone (Ton)	Removal of gritty Soil & Weathered rock in cum	Bench RL in Meters
1 st	36366	101825	3700	134-128
2 nd	36410	101948	2500	134-128
3 rd	36400	101920	1710	134-128
4 th	36410	101948	00	128-122
5 th	36426	101993	00	122-116
Total	182012	509634	7910	

After years the production is proposed

Year	Generation of waste/O.B in cum	Production of stone in (Cum)	Production of stone in (Ton)
6 th Year	00	36430	102005
7 th Year	00	36430	102005
8 th Year	00	36430	102005
9 th Year	00	36430	102005
10 th Year	00	36430	102005
B.)Total production		182450	510025
Total		364164	1019659

Land Use

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.14	1.42	1.142	Water Body
2	Office /Store	0.00	0.00	0.00	0.00	
3	Crusher	0.00	0.00	0.00	0.00	Not Proposed
4	Road	0.00	0.04	0.02	0.02	Approach Road
5	Garland Drain	0.00	0.09	0.00	0.00	Back Filling

	with Dump					
6	Safety Zone	0.00	0.66	0.66	0.66	Plantation
7	Settling Tank	0.00	0.001	0.00	0.00	Settling Tank
8	Unutilized	2.105	0.18	0.00	0.00	
9	Utilized Area	0.00	1.93	0.00	0.00	
	TOTAL	2.105	2.105	2.105	2.105	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.66 ha	1056 trees @ 1600 trees per ha
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.64KM	320Plants on both sides – 2.5 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- There is waste to be generated 7910 Cu.M. during life of mine which will be reclaimed after life of mine.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.

- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

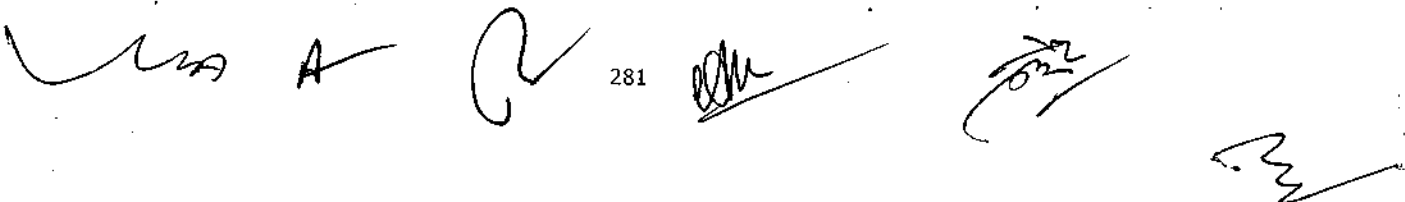
Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bastadih and Asanjola Stone Mine of M/s Ideal Construction, Village : Bastadih and Asanjola, Anchal : Hiranpur, Thana no. : 86 & 83, Dist. :

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Pakur, Jharkhand (2.105 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

3. Group Housing Project “Shaurya Kunj” of M/s Aditya Construction and Builders, Mouza : Pundag, P.S. : Jagarnathpur, Thana no. : 228, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/226936 /2021).

Name of the consultant : Gaurang Environmental Solutions Pvt. Ltd., Jaipur.

This is a new project which has been taken for appraisal on 22.02.2022.

The proposed project involves the construction of Group Housing Project “Shaurya Kunj” coming up at Mouza-Pundag, PS-Jagarnathpur, PS. No. 228, Plot No. 1685, 1689, 1690, 1691, 1692, 1694, 1695, 1696, 1697, Khata No. 49 & 141, District Ranchi, Jharkhand developed by Aditya Construction and Builders. The total plot area of the project is 10068.40 sq. m. and the Gross Built-up area envisaged for the project is 41,071.20 sq. m. Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

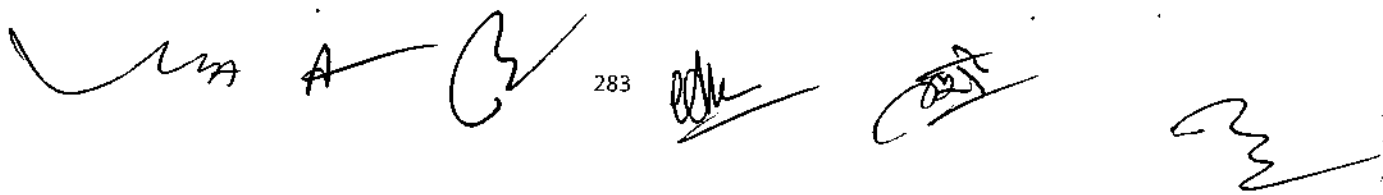
Salient Features of the Project :

Particulars	Details
Project address	Mouza-Pundag, PS-Jagarnathpur, PS. No. 228, Plot No. 1685,1689, 1690, 1691,1692, 1694, 1695, 1696, 1697, Khata No. 49 & 141, District Ranchi, Jharkhand
Type of project	Group Housing Project (Building & Construction)
Screening category	The project is categorized under 'B-2' under item 8(a) (Building and Construction)
Total Plot area	10068.40 sq. m
Gross Built up Area	41,071.20 sq. m
Ground Coverage	Permissible : 35% (3523.94 sq. m.) Proposed : 28.07 % (2825.72 sq. m.)
FAR	Permissible : 3.5 (35239.4 sq.m.) Proposed : 3.4 (34310.15sq. m.)
Green Area	1812.312 sq. m. (18 %)
Parking facilities	Required Parking : 566 ECU Provided Parking : 632 ECU
Power requirement & source	Connected load : 9008.5 KW Maximum demand : 50961.78 KW Source : 33 kV supply from nearest GSS.

Power backup	D.G Set Cumulative capacity : 1250 kVA 500 kVA : 2 nos. 250 kVA : 1 nos.
Water requirement & source	Total Water requirement : 269 KLD Fresh Water : 194 KLD Recycled Water : 75 KLD Source : Ground Water
Sewage treatment & disposal	Sewage treatment facility : STP of 350 KLD Capacity Waste water generated : 288KLD
No. of RWH Pits	04
Project cost	Rs. 48 crores

Geographical coordinates :

Point -1	Point -2
Latitude : 23°21'2.56"N Longitude : 85°15'46.73"E	Latitude : 23°21'2.95"N Longitude : 85°15'44.47"E
Point -3	Point -4
Latitude : 23°21'4.07"N Longitude : 85°15'44.78"E	Latitude : 23°21'4.00"N Longitude : 85°15'45.26"E
Point 5	Point 6
Latitude : 23°21'4.56"N Longitude : 85°15'45.81"E	Latitude : 23°21'5.73"N Longitude : 85°15'45.09"E
Point 7	Point 8
Latitude : 23°21'6.44"N Longitude : 85°15'45.66"E	Latitude : 23°21'7.99"N Longitude : 85°15'47.56"E
Point 9	Point 10
Latitude : 23°21'7.30"N Longitude : 85°15'49.45"E	Latitude : 23°21'6.40"N Longitude : 85°15'48.88"E
Point 11	Point 12
Latitude : 23°21'5.73"N Longitude : 85°15'47.66"E	Latitude: 23°21'4.74"N Longitude: 85°15'46.81"E
Point 13 Latitude:23°21'4.17"N Longitude : 85°15'47.69"E	


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The proposed Project involves the construction of Group Housing Project with Dwelling units (492 nos.), and other facilities like Community hall, Retail shop and health club. etc.

Details are as under:-

S. No	Particulars	Details																				
1.	No of Blocks	3 Nos. (Block A, B, C)																				
2.	Floors & building height	As under:- <table border="1"> <thead> <tr> <th>Blocks</th> <th>Floors</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>Block A</td> <td>LB+ UB+GF+11th floor</td> <td>34.20 m</td> </tr> <tr> <td>Block B</td> <td>LB+ UB+GF+11th floor</td> <td>34.20 m</td> </tr> <tr> <td>Block C</td> <td>LB+ UB+GF+11th floor</td> <td>34.20 m</td> </tr> </tbody> </table>	Blocks	Floors	Height	Block A	LB+ UB+GF+11th floor	34.20 m	Block B	LB+ UB+GF+11th floor	34.20 m	Block C	LB+ UB+GF+11th floor	34.20 m								
Blocks	Floors	Height																				
Block A	LB+ UB+GF+11th floor	34.20 m																				
Block B	LB+ UB+GF+11th floor	34.20 m																				
Block C	LB+ UB+GF+11th floor	34.20 m																				
3.	Block wise Dwelling units	Total No of Flats: 492 Nos. <table border="1"> <thead> <tr> <th>Blocks</th> <th>1 BHK</th> <th>2 BHK</th> <th>3 BHK</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Block A</td> <td>-</td> <td>24</td> <td>84</td> <td>108</td> </tr> <tr> <td>Block B</td> <td>96</td> <td>96</td> <td>-</td> <td>192</td> </tr> <tr> <td>Block C</td> <td>96</td> <td>96</td> <td>-</td> <td>192</td> </tr> </tbody> </table>	Blocks	1 BHK	2 BHK	3 BHK	Total	Block A	-	24	84	108	Block B	96	96	-	192	Block C	96	96	-	192
Blocks	1 BHK	2 BHK	3 BHK	Total																		
Block A	-	24	84	108																		
Block B	96	96	-	192																		
Block C	96	96	-	192																		
4.	Other facilities	<ul style="list-style-type: none"> o Community hall (2 nos.) : 175.78 sq.m o Retail shop (3 nos.) : 162.39 sq.m • Block A (1 No) : 60.45 sq.m • Block B (1 No.) : 50.97 sq.m • Block C (1 No.): 50.97 sq.m Health club (3 nos.) : 162.39 sq.m. 																				

Land use Breakup

S. No	Particulars	Permissible	Proposed
1.	Total Plot area		10068.40. sq. m
2.	Gross Built up Area		41,071.20 sq.m
3.	FAR	3.5 (35239.4 sq.m.)	3.4 (34310.15sq. m.)
4.	Ground Coverage	35% (3523.94 sq. m.)	28.07 % (2825.71 sq. m.)
5.	Landscape Area	-	1812.312 sq. m. (18 %)
6.	Paved Area	-	5430.368 sq. m (53.93%)

Built Up Area Details:

	Block A	Block B	Block C

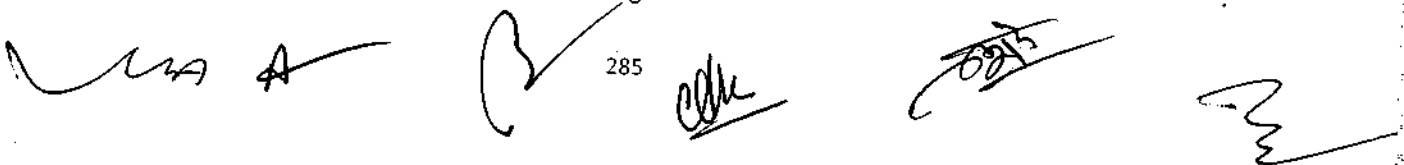
Floors	BUA (in sq.m)	FAR (In sq.m)	BUA (in sq.m)	FAR (In sq.m)	BUA (in sq.m)	FAR (In sq.m)
Lower Basement	1089.41	8.55	989.46		989.46	
Upper Basement	1080.86	411.14	980.91	376.32	980.91	376.32
Ground floor	1003.21	986.7	924.98	886.68	924.98	886.68
First floor	1024.24	986.7	947.29	886.68	947.29	886.68
Second floor	1024.24	986.7	947.29	886.68	947.29	886.68
Third floor	1024.24	986.7	947.29	886.68	947.29	886.68
Fourth floor	1024.24	986.7	947.29	886.68	947.29	886.68
Fifth floor	1024.24	986.7	947.29	886.68	947.29	886.68
Sixth floor	1024.24	986.7	947.29	886.68	947.29	886.68
Seventh floor	1024.24	986.7	947.29	886.68	947.29	886.68
Eight floor	1024.24	986.7	947.29	886.68	947.29	886.68
Nine floor	1024.24	986.7	947.29	886.68	947.29	886.68
Ten floor	1024.24	986.7	947.29	886.68	947.29	886.68
Eleven floor	1024.24	986.7	947.29	886.68	947.29	886.68
Terrace	14440.12	12260.09	13315.5 4	11016.48	13315.5 4	11016.48
Total Gross BUA	41,071.20 sq.m					
FAR	34,310.15 sq.m					

STATUTORY CLEARANCE

- Airport Authority of India issued a height clearance NOC vide its NOC ID –RANC/EAST/B/120320/513687, dated 04/01/2021.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. – 2820/Tech./2020, dated 21/12/2020.
- The DFO, Wildlife Ranchi Vide Letter No. 840 Dated 25/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Ranchi Division vide Letter No. 2724 Dated 28/09/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Nagri, Ranchi vide Letter No. 1119 (ii) Dated 21/10/2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.
- Application for withdrawal of ground water has been submitted to CGWA vide application no. 21-4/810/JH/INF/2022 dated 21.02.2022.

During the presentation the following documents were sought :

- a) Green belt should be increased up to 15%.
- b) Water requirement to be revised and alongwith RWH.



- c) Calculation regarding offset of conventional with non conventional energy to be provided.
- d) Expenditure related to environmental management measures to be submitted.
- e) Contour map and evacuation plan to be submitted.

The PAs have submitted the above required undertaking and documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Group Housing Project "Shaurya Kunj" of M/s Aditya Construction and Builders, Mouza : Pundag, P.S. : Jagarnathpur, Thana no. : 228, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith the following specific conditions :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
 - II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
 - III. All raw material to be stored only under covered shed.
 - IV. PAs to ensure ZERO DISCHARGE for its process discharges.
 - V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
 - VI. Green belt and Green cover to be implemented as provided in layout plan.
4. Common Bio Medical Waste Treatment Facility of M/s Greenland Waste Management Enterprises (GWME) at Mauza : Beliadanga, P.S. : Maheshpur, Dist : Pakur, Jharkhand.

(Proposal No : SIA/JH/MIS/71665/2022).

Name of the consultant : Gaurang Environmental Solutions Pvt. Ltd., Jaipur.

This is a case of violation which has been taken for appraisal on 22.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

The project involves development of Common Bio Medical Waste Treatment Facility which is categorized under Item 7 (d) (a) (Bio-Medical Waste Treatment Facilities) of the Schedule-Gazette Notification dated 17th April 2015. The project falls under category "B". The total plot area of the unit is 5151.84 sq.m. The land for the proposed project is taken on lease in name of M/s Greenland Waste Management Enterprise (GWME) for the purpose of establishment of a Common Biomedical Waste Treatment Facility only.

Salient Features Of The Project

S. No	Items	Details			
1.	Project name	Proposed Common Bio Medical Waste Management Facility, Pakur			
2.	Project Proponent	M/s Greenland Waste Management Enterprise (GWME)			
3.	Project capacity	As below:			
		S. No.	Particular	No.	Capacity
		1	Incinerator	1	200 kg/hr
		2	Autoclave	1	600 lt/batch
		3	Shredder	2	30 kg/hr x 2 nos.
		4	ETP	1	10 KLD
		5	Sharp pit	1	-
		6	Ash pit	1	-
4.	Category	B			
5.	Project address				
	Khasra numbers	1958, 1964, 1963,1968,1962,1965			
	Village	Mauza Beliadanga			
	Tehsil	P.S. Maheshpur			
	District	Pakur			
	State	Jharkhand			
	Coordinates	Latitude: 24°29'23.08"N Longitude: 87°36'58.59"E			
6.	Nearest CBWTF	At Dhanbad ~220 km from the proposed site			
7.	Total Plot area	5151.84 sq.m. (1.27 acre)			
8.	Waste to be handled	4000 kg/day			
9.	No. of shifts	3			
10.	No. and types of vehicles for transportation/ collection of waste	12 nos. TATA V10: covered: 6 nos. + 1 (standby) TATA V30: covered: 4 nos. + 1 (standby)			
11.	Trips to be made per day	10 trips/ day			
12.	Environmental sensitivity				
13.	Nearest Town/City	Amrapora	5.69 km	WNW	
		Pakur	29.15 km	NE	
14.	Nearest railway station	Pakur RS	29.3 km	NE	

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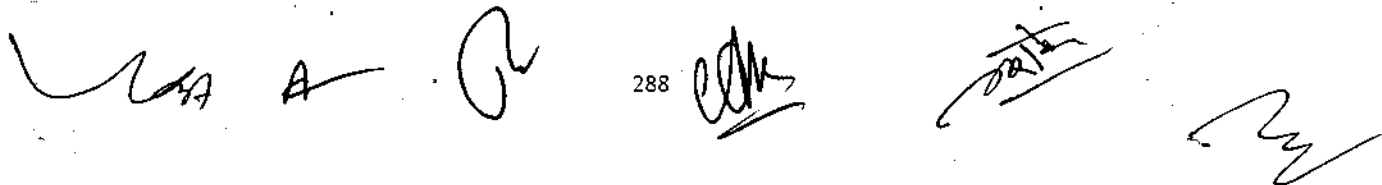
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15.	Nearest highway	Amrapara-Maheshpur-Moraroi road	330 mt.	N
		SH 18	5.54 km	WNW
16.	Nearest airport	Sidho Kanhu airport	45.46 km	SW
17.	Nearest river/ water body	Bansloi Nadi	1.0 km	N
		Soru Nala	7.1 km	NNE
		Tantiduba Nala	13.5 km	NNE
		Kandaha Nala	4.8 km	NE
		Telipokhar Nala	10.4 km	ESE
		Suriudi nadi	6.3 km	SSW
		Baru nadi	13.3 km	SSE
		Trighana Nadi	14.4. km	SW
		Makarkandi nala	12.1 km	W
18.	Water requirement	15.4 KLD Daily Fresh: 9.4 KLD Recycled : 6 KLD		
	Source:	Bore well at site		
19.	Waste water generation	7.8 KLD		
	Trade effluent	7 KLD		
	Domestic sewage	0.8		
	Treatment	Trade effluent: ETP Domestic sewage: Septic tank followed by soak pit		
20.	Power requirement	111 kVA (100 kW)		
	Source	JBVNL, Jharkhand		
21.	Back up source	DG set: 62.5 kVA (1 no.)		
22.	Transformer	100 kVA		
23.	Manpower	10 persons		
24.	Project cost	341.82 Lacs		

STATUTORY CLEARANCE

- The DFO, Wildlife Hazaribagh Vide Letter No. 799 Dated 19/04/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Pakur Forest Division vide Letter No. 88 Dated 08/02/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Maheshpur vide Letter No. 66, Dated 25/01/2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.



Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure V alongwith following specific condition :

- i. One month additional monitoring will be done during the month of March, 2022.
- ii. Certificate from competent authority is to be obtained stating that there is no other bio medical waste treatment facility within 75 km from this project.

5. Srirampur Stone Deposit of M/s Lakhmani Stone Product, Village : Srirampur, Thana : Pakur, Dist. : Pakur, Jharkhand (2.38 Ha).

(Proposal No. : SIA/JH/ MIN/248835 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 44,770 cu.m/annum or 1,11,925 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	Srirampur Stone Deposit	
2	Lessee:	M/S Lakhmani Stone Product Partner- Sri Ritin Lakhmani At P.O.- Sindhpara, PS – Pakur, District- Pakur Jharkhand.	
3	Lease Address	Village – Srirampur, Thana- Pakur, District – Pakur, State –Jharkhand.	
4	Lease Area	2.38 ha	Acres-5.87 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 30 Lakhs	
7	EMP Budget	Capital: 2.55 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	Rs. 0.60 Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 4,48,580 cum	Tonnes: 11,21,450 tons
11	Mine Life	10.5 years	
12	Man power	25	
13	Water Requirement	6.5 KLD (Drinking: 0.25 KLD, Dust Suppression:2.62 KLD, Plantation: 3.63 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	No crusher	
17	Nearest Water	Torai Nadi, approx. 8.0 km, NW direction	

	Body	
18	Nearest Habitation	: Srirampur, 0.5 km, SE
19	Nearest Rail Station	: Ngarnabi Railway station, approx. 6.0 km, East direction
20	Nearest Air Port	: Kazi Nazrul Islam Airport, Durgapur, approx. 122 km, SSW direction.
21	Nearest Forest	: PF near Mohanpur Village, approx 3.0 km, SE direction. PF near Dhangora Pahar, approx. 6.0 km, NW direction. PF near Khutigora Village, approx. 8.5 km West direction.
22	Road & Highways	: NH-114 A , approx. 5.40 km., North direction..

CO-ORDINATES :

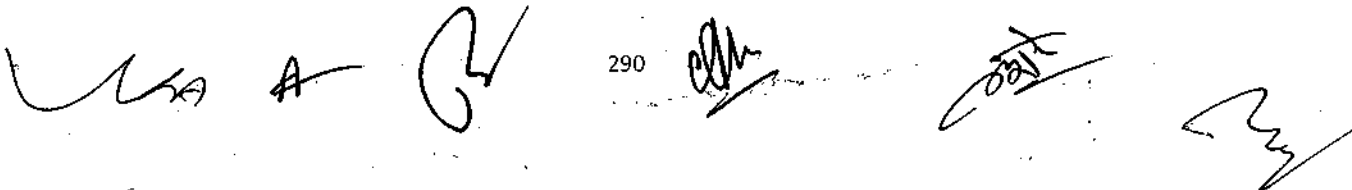
1	Latitude	From 24°35'21.09"N to 24°35'29.21"N
2	Longitude	From 87°48'29.57"E to 87°48'36.01"E

LAND DETAILS :

1	Srirampur	:	KHATA NO.	PLOT NO.
			23	837, 838, 839/P
			32	824, 825, 832, 833, 834, 835, 836, 854/P
			57	851/P, 852/P & 853/P

STATUTORY CLEARANCES :

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1111/M , dated 10-07-2021
2	CO	: The CO, Pakur vide letter no. 200 dated 26-02-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	: DMO, Pakur vide memo no. 1494/ M dated 26.08.2021 certified that one lease (5.22 acre) exist within 500 m radius from proposed project site and total area is less than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1958 dated 14-11-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division vide letter no. 934 dated 19-06-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Pakur vide letter no. 1412/M, dated 12.08.21 has informed that this project is part of District



		Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 17-02-2021
8	Mine Plan Approval	: Vide Memo no. 1700/M dated 24.09.2021

Working Details :

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-1.289 ha Life of Mine - 1.802 ha
3	Waste Generation	: 5 years- 7700 cu.m
4	Stripping Ratio	: 1: 0.17
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m
7	Elevation of Mine	: 52 AMSL to 58 AMSL
8	Ground Level Elevation	: 25 AMSL
9	Ultimate Working Depth	: 20AMSL (5mbgl)
10	Water Table	: 10 AMSL (15 mbgl)
11	Topography of Mine	: Area represents undulating topography
12	Explosive Requirement	: Class - III (special gelatin)& Class -VI explosive (detonator, electric detonator) is used
13	Diesel/Fuel requirement	: 10 liter/day

Production Details :

Year	Production of Stone in Tonnes	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1st	83875.00	33,550	7700.00	56mRL - 50mRL
2nd	91300.00	36,520	Nil	50mRL - 44mRL
3rd	104775.00	41,910	Nil	50mRL- 38mRL
4th	111650.00	44,660	Nil	38 mRL - 26 mRL
5th	111925.00	44,770	Nil	56 mRL - 20mRL
Total	503525.00	201,410	7700.00	

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Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	1.289	1.802 (0.14ha area shall be backfilled & entire area after backfilling will be converted into water reservoir)
Road	0.015	0.003	0.003
Road Barrier	0.108	0.108	0.108
Proposed Dump	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.464	0.464
Total	0.123	1.864	2.380
Unused Area	2.257	0.516	0.000

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.464 ha	1160
2	Haul /Approach Road	:	0.05 km	50

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3-m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- About **7700 cum waste (overburden)** shall be generated. The OB consist of weathered rock intermixed with soil. The thickness of OB is approx. 1.0 m. The generated waste will be dump temporarily on the Northern side of the lease area (1st to 4th year). In 5th year, proposed waste dump will be removed & backfilled into mined out area.

Water Quality Management

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- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided; dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.







- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Srirampur Stone Deposit of M/s Lakhmani Stone Product, Village : Srirampur, Thana : Pakur, Dist. : Pakur, Jharkhand (2.38 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Bijaypur Stone Mine of M/s Shivam Stone Works, Village : Bijaypur, Thana : Pakuria, Dist. : Pakur, Jharkhand (1.94 Ha).

(Proposal No. : SIA/JH/ MIN/254938 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity-50,285.55 cu.m/annum or 1,35,771 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	: Bijaypur Stone Deposit	
2	Lessee:	: M/s Shivam Stone Works Partner- Sri Ajit Kumar Mehta & Sri Rajendra Mehta at Village – Domchanch, Thana – Domchanch, District- Koderma, Jharkhand	
3	Lease Address	: Village –Bijaypur, Thana- Pakuriya, District – Pakur, State –Jharkhand.	
4	Lease Area	: 1.94 ha	Acres-4.80 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 30 Lakhs	
7	EMP Budget	: Capital: 3.4 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 13,54,679 cum	Tonnes: 1,35,771 tons
11	Mine Life	: 10 years	
12	Man power	: 25	

13	Water Requirement	:	7.0 KLD (Drinking: 0.25 KLD, Dust Suppression:3.7 KLD, Plantation: 2.9 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Tripita Nadi, approx. 3.50 km, SW direction.
18	Nearest Habitation	:	Salgapara, 0.6 km, SE
19	Nearest Rail Station	:	Harinsing Railway station, , approx. 16.40 km, South direction
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Durgapur, approx. 92.0 km, South direction.
21	Nearest Forest	:	PF near Bijaypur village, Approx. 2.30 km, WSW direction.
22	Road & Highways	:	SH-18, approx. 10.30 km, West direction.

CO-ORDINATES :

1	Latitude	From 24°23'10.80" N	To 24°23'17.20" N
2	Longitude	From 87°35'08.30" E	To 87°35'15.50" E

LAND DETAILS :

Khata no.	Plot no.
07	283

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 594/M , dated 25-04-2020
2	CO	:	The CO, Pakuriya, Pakur vide letter no. 765 dated 19-10-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R. S. Khatiyar & Register II.
3	DMO	:	DMO, Pakur vide letter no. 2325/ M Pakur dated 10.12.2020 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1890 dated 01-11-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 1214 dated 10-11-2015 certified that the distance of notified from the project site is more

		than 500 m.
6	DSR	: This project is part of District Survey Report (DSR) at Pakur district.
7	Gram Sabha	: on 19-10-2019
8	Mine Plan Approval	: Vide Memo no. 823/DDM on 09.12.2015

Working Details :

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-1.44 ha Life of Mine - 1.44 ha
3	Waste Generation	: 5 years- 6,210 cu.m
4	Stripping Ratio	: 1: 0.1
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 100 AMSL to 110 AMSL
8	Ground Level Elevation	: 100AMSL
9	Ultimate Working Depth	: 64 AMSL (36mbgl)
10	Water Table	: 60 AMSL (40 mbgl)
11	Topography of Mine	: Area represents a Flat
12	Explosive Requirement	: Explosive Requirement
13	Diesel/Fuel requirement	: Diesel/Fuel requirement

Production Details :

Year	Production of Stone		OB Waste (cum)	Bench RL in Meters
	(in Tonnes)	(in cum)		
1st	134384	49,771.85	6210.00	107mRL - 103 mRL
2nd	135667	50,247.04	0.0	103mRL - 94 mRL
3rd	135481	50,178.15	0.0	100 mRL - 94 mRL
4th	135455	50,168.52	0.0	100 mRL - 88 mRL
5th	135771	50,285.55	0.0	94mRL - 88 mRL
Total	676758	250651.11	6210.00	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period	Conceptual stage (Ha)
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		(Ha)	
Quarry	Nil	1.44	1.44
Road	Nil	0.003	Nil
Proposed Dump	Nil	0.001	Nil
Safety Zone Plantation	Nil	0.26	0.50
Total	0.0	1.704	0.000
Unused Area	1.94	0.236	0.000
Total leasehold area	1.94	1.94	1.94

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.50 ha	1250
2	Haul /Approach Road	:	0.20 km	200

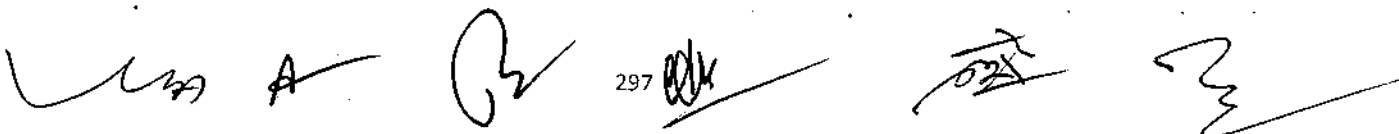
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- About 6210 cum waste (overburden) shall be generated. The OB consist of weathered rock intermixed with soil. The generated waste will be used in maintenance of mine road and village road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.






- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

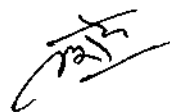
- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.







- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bijaypur Stone Mine of M/s Shivam Stone Works, Village : Bijaypur, Thana : Pakuria, Dist. : Pakur, Jharkhand (1.94 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Baliapatra Stone Deposit of M/s Naviya Stone Works, Village : Baliapatra, Thana : Maheshpur, Dist. : Pakur, Jharkhand (1.157 Ha).

(Proposal No. : SIA/JH/ MIN/254940 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 22830.40 cu.m/annum or 61642.08 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	Baliapatra Stone Deposit	
2	Lessee:	M/S Naviya Stone Works Partner- 1.Sri Ashish Kumar Dutta, S/o Bankim Chandra Dutta Address- At Netaji Nagar, Ward No. 05, Nalhathi, District- Birbhum, West Bengal 2. Sri Tazel Ali, S/o Late Sayed Ali At village – Chhayapalli, P.O – Khanpur, Nalhathi, District- Birbhum, West Bengal	
3	Lease Address	Village – Baliapatra, Thana- Maheshpur, District – Pakur, State – Jharkhand.	
4	Lease Area	1.157 ha	Acres-2.86 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 25 Lakhs	
7	EMP Budget	Capital: 5.66 Lakhs	Recurring: 4.17 Lakh / year
8	CSR / CER Budget	Rs. 0.50 Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 227428.10 cum	Tonnes: 614055.88 tons
11	Mine Life	10.00 years	
12	Man power	43	
13	Water Requirement	11.50 KLD(Drinking: 0.43 KLD, Dust Suppression: 7.13 KLD, Plantation: 3.66 KLD)	
14	Water Source	From Nearby villages by tankers	

15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Ganga River, 50.00 km, E direction
18	Nearest Habitation	:	Baliapatra, 0.7km
19	Nearest Rail Station	:	Chatra Railway station, 17km
20	Nearest Air Port	:	Durgapur Airport, 100km
21	Nearest Forest	:	Protected Forest near Bijaypur Village, approx. 19 km, W side
22	Road & Highways	:	SH-7, Approx. 10.50 km. in East direction NH-14, Approx. 13.40 km. in SE direction

CO-ORDINATES

1	Latitude	From 24°22'28.9477" N	To 24°22'32.9534""N
2	Longitude	From 87°44'34.7955"E	To 87°44'40.8422"E

LAND DETAILS

			Khaa no	Plot no.
1	Baliapatra	:	08	390, 392
			18	393(P)
			19	131
			20	136, 132, 388

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1906/M, dated 30.10.2019
2	CO	:	The CO, Maheshpur vide letter no. 627, dated 26.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1790M, dated 08.10.2021 certified that two lease (4.63 Acres / 2.55 acres) exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1930 dated 14.09.2019 certified that the National Park & Sanctuary is not within 10 km

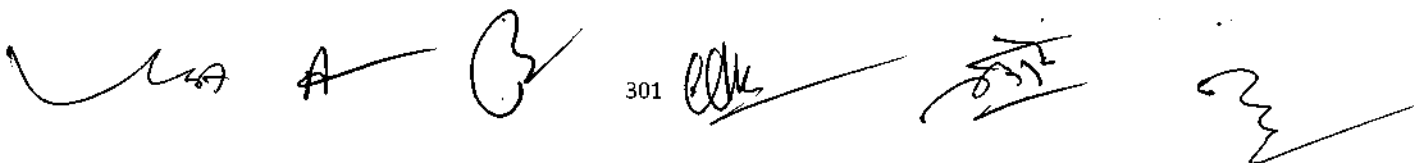
		:	from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 1166 dated 28.09.2019 certified that the distance from the nearest Reserved Forest / Protected Forest from the project site is more than 250 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), Pakur.
7	Gram Sabha	:	on 22-08-2019
8	Mine Plan Approval	:	Vide Memo no. 311/M dated 19.10.2020

Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method.
2	Quarry Area	:	5 years- 0.680 ha Life of Mine - 10.00 Year
3	Waste Generation	:	5 years- 10919.65 cu.m
4	Stripping Ratio	:	1: 0.03
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	69 AMSL to 76 AMSL
8	Ground Level Elevation	:	56 AMSL
9	Ultimate Working Depth	:	45 AMSL (11 mbgl)
10	Water Table	:	42 AMSL (14 mbgl)
11	Topography of Mine	:	Area represents a uneven
12	Explosive Requirement	:	42 kg slurry explosive
13	Diesel/Fuel requirement	:	10 liter/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	61477.92	22,769.60	4867.40	75mRL - 69 mRL
2 nd	61601.04	22,815.20	1200.80	74 mRL - 63 mRL
3 rd	61642.08	22,830.40	1201.60	69 mRL - 63 mRL
4 th	61583.09	22,808.55	1200.45	69 mRL - 57 mRL
5 th	61567.70	22,802.85	1200.15	63 mRL - 57 mRL


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Total	307871.83	114,026.60	9670.40	
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Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	0.0	0.680	0.746 (0.113 ha area shall be backfilled & entire area after backfilling will be converted into water reservoir)
Road	0.060	0.002	0.002
Proposed Dump	Nil	0.066	Nil
Safety Zone Plantation	Nil	0.409	0.409
Total	0.060	1.157	1.157
Unused Area	1.097	0.000	0.000
Total leasehold area	1.157	1.157	1.157

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.409 ha	1030
2	Haul /Approach Road	:	0.10 km	800

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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Solid Waste Management

- Stone is exposed in some parts of the area and small soil cover is observed in this area. The small quantity of waste will be dumped in the Lease area with suitable precaution in the plan period and will be used for backfilling in plan and conceptual periods. Though there is no huge soil. Stone will be sent to the crusher and used exclusively on Government and other Infrastructural Works. The stone may also be exported with all formalities.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.

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- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Baliapatra Stone Deposit of M/s Naviya Stone Works, Village : Baliapatra, Thana : Maheshpur, Dist. : Pakur, Jharkhand (1.157 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

8. Siulidanga Stone Mine of M/s Taj Stone Works, Village : Siulidanga, Anchal : Hiranpur, Dist. : Pakur, Jharkhand (2.607 Ha).

(Proposal No. : SIA/JH/ MIN/71784 /2022).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity- 38,643.92cum/annum or 1,08,203 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Siulidanga Stone Deposit
2	Lessee:	: M/s Taj Stone Works Prop- Sri S.M. Tasleem Arif S/o Alhaj Abdul Rajjaque Biswas Address- Gram-Rahaspur, Thana- Pakur, State – Jharkhand.
3	Lease Address	: Village – Siulidanga, Anchal- Hiranpur, District – Pakur, State – Jharkhand.
4	Lease Area	: 2.607 ha Acres-6.44 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 3.19 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.70Lakhs

9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.m.: 474392 cum Tonnes: 1328298 tons
11	Mine Life	:	12 years 3 months
12	Man power	:	37
13	Water Requirement	:	6.20 KLD (Drinking: 0.37KLD, Dust Suppression:1.20 KLD, Plantation:4.59 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Torai River, 3.00km, SSW direction
18	Nearest Habitation	:	Siulidanga, 0.25 km
19	Nearest Rail Station	:	Kotalpukur Railway station, 8.60 km , NE direction
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, 130.0 km, SSW direction
21	Nearest Forest	:	Protected Forest near Belpahari Village, approx. 1.50 km, NW side Protected Forest near Dhapahari Village, 2.0 km, W direction
22	Road & Highways	:	NH-114A , Approx. 1.80 km, SW direction

CO-ORDINATES :

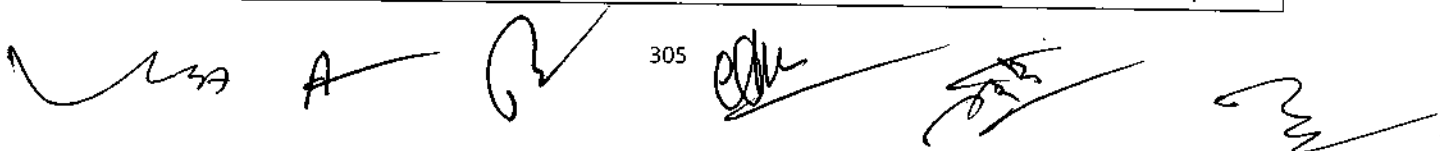
1	Latitude	From 24°41'31.11"N	To 24°41'38.35"N
2	Longitude	From 87°45'16.16"E	To 87°45'26.13"E

LAND DETAILS :

1	Siulidanga	:	<table border="1"> <thead> <tr> <th>KHATA NO.</th> <th>PLOT NO.</th> </tr> </thead> <tbody> <tr> <td>06</td> <td>83/P, 84/P, 86, 87, 88, 91 & 94/P</td> </tr> </tbody> </table>	KHATA NO.	PLOT NO.	06	83/P, 84/P, 86, 87, 88, 91 & 94/P
KHATA NO.	PLOT NO.						
06	83/P, 84/P, 86, 87, 88, 91 & 94/P						

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 755/M, dated 14-06-2021
2	CO	:	The CO, Hiranpur vide letter no. 306, dated 28-07-2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide letter no. 1779/M, Pakur dated 08-10-2021 certified that 02 other lease area (4.25 acre & 6.25 acre) exist



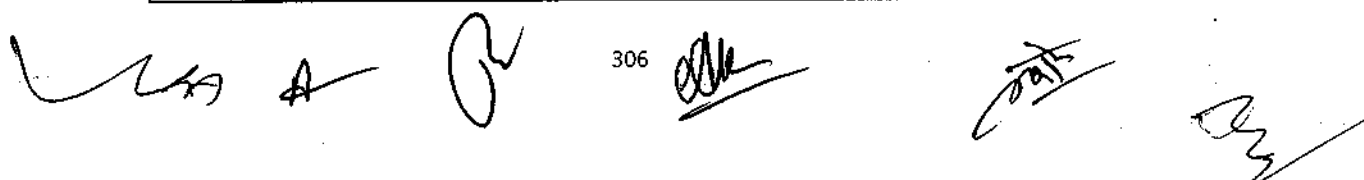
		within 500 m radius from proposed project site and total area is 6.86 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 735, dated 10-04-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division, vide letter no. 340, dated 19-02-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Pakur vide letter no 1412/M dated 12/08/2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 12-09-2019
8	Mine Plan Approval	: Vide Memo no. 1239/M dated 22.07.2021

Working Details :

1	Mining Method	: Opencast Mechanized Mining method
2	Quarry Area	: 5 years-1.60 ha Life of Mine - 1.80 ha
3	Waste Generation	: 5 years-11975.0 cu.m
4	Stripping Ratio	: 1: 0.02
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 60 AMSL to 59 AMSL
8	Ground Level Elevation	: 60 AMSL
9	Ultimate Working Depth	: 36 AMSL (24 m bgl)
10	Water Table	: 25 AMSL (35 m bgl)
11	Topography of Mine	: The ground area is rising from SW to NE forming undulatory topography
12	Explosive Requirement	: 50 kg slurry explosive
13	Diesel/Fuel requirement	: 9 liter/day

Production Details (plan period)

Year	Production of Stone in Tonnes	Production of stone in cum	Generation of Waste/O.B (cum)
1st	107551	38411.07	4968
2nd	107926	38545	4095



3rd	107296	38320	2912
4th	108203	38643.92	00
5th	108192	38640	00
Total Production	539168	192559.99	11,975

Land Use

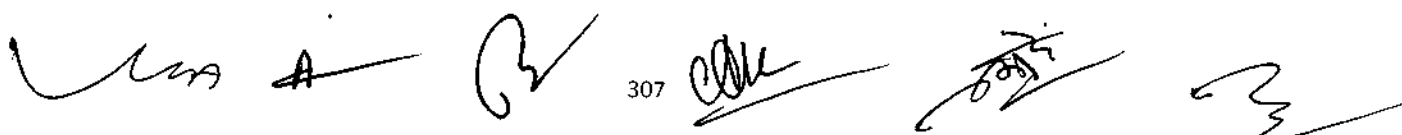
Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	-	1.6	1.8(0.40Ha area will be reclaimed & 1.40Ha rest area will be left as water reservoir)
Haul Road	0.00	0.05	0.02
Proposed Crusher	-	-	-
Safety Zone Plantation	-	0.16	0.16
Dump with Parapet wall & Garland Drain	-	0.02	Nil
Plantation along Haul Road	-	0.43 (outside lease area)	0.43 (outside lease area)
Reclaimed Area		-	0.40
Total Area in use	0.00	1.83	1.98
Unused Area	2.607	0.777	0.627
Total Applied Area	2.607	2.607	2.607

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	Location	Area/Length	No. of Trees
1	Safety Zone and haul road	0.59 ha	1480
2	Approach Road	0.5 km	50

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.



Solid Waste Management

- Waste Generation will be 11975.0 cum (dump area- 0.02 ha in plan period) during the plan period. During Plan period gritty soil removed will be dumped at eastern part of the area with suitable precautions like parapet wall and garland drain. The small quantity of the removed gritty soil would also be used for road dressing and plantation. At conceptual period dump will be removed & will be used for backfilling.

Water Quality Management

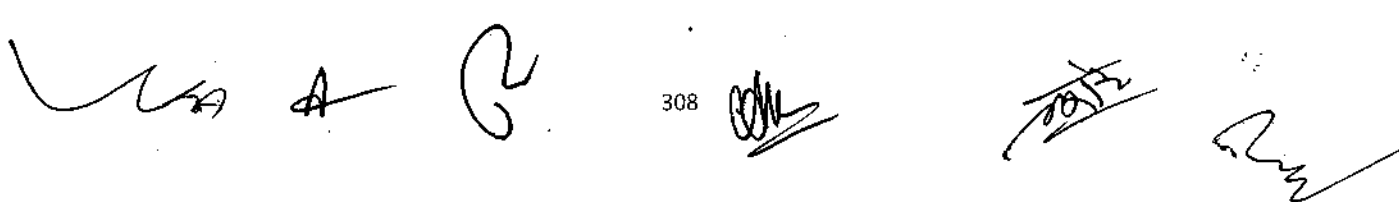
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.

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- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

9. Rechadih Brick Clay Deposit of M/s M.M.B. Bricks, Village : Rechadih, P.O. : Boram, P.S. : Boram, Dist. : East Singhbhum, Jharkhand (1.05 Ha).

(Proposal No. : SIA/JH/ MIN/247242 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Production capacity: 1,627 cum/season or 2,928.6 MT/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Rechadih Brick Earth Deposit
2	Lessee:	: M/s MMB Bricks (Maraka-MMB) Prop.- Sri Budhu Mahto Village- Boram, P.S. & P.O- Boram, District- East Singhbhum, State- Jharkhand
3	Lease Address	: Village – Rechadih, Thana.- Boram, District - East Singhbhum,

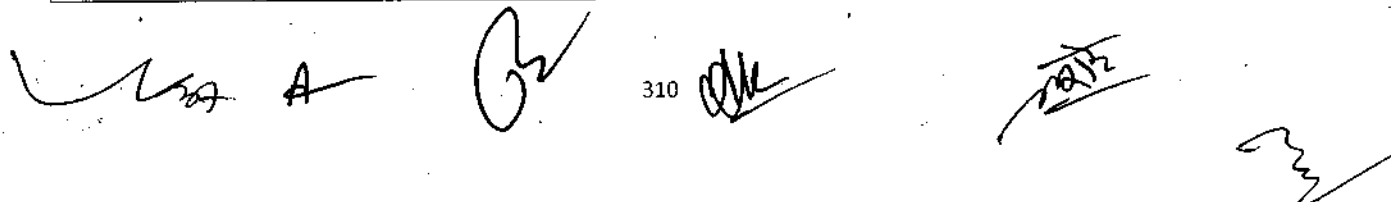
			Jharkhand
4	Lease Area	:	Ha: 1.05 ha Acres: 2.60 Acres
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 15 Lakhs
7	EMP Budget	:	Capital: 3.10 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.30 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 29,129 Cu. M. Tonnes: 37,867.70 MT
11	Mine Life	:	5 seasons/year
12	Man power	:	26
13	Water Requirement	:	7.20 KLD (Drinking: 0.26 KLD, Dust Suppression: 4.47 KLD, Plantation: 2.40 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No Crusher
17	Nearest Water Body	:	Nangasai Nadi, Approx. 1.80 km, E Side
18	Nearest Habitation	:	Rechadih, 0.70 km
19	Nearest Rail Station	:	Biramdihi Railway Station, 13.00 km, NW direction.
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, 105.90 km, W direction.
21	Nearest Forest	:	Hatiadih Protected Forest, approx. 2.0 km WNW direction. Lailam PF, approx. 9.5 km S direction. Protected Forest near Bareda village, approx. 9.50 km WSW direction. Protected Forest near Kuiani village, approx. 6.50 km SW direction.
22	Road & Highways	:	NH-116B, approx, 10.20 km towards NE direction NH-18, approx, 13.90 km towards SW direction.

CO-ORDINATES

1	Latitude	From 22°57'56.65"N	To 22°57'59.80"N
2	Longitude	From 86°17'19.85"E	To 86°17'25.56"E

LAND DETAILS

Khata no.	Plot no.
04	224 (P)
35	525(P), 526(P)
60	522(P), 524(P), 527(P), 528(P), 744(P)

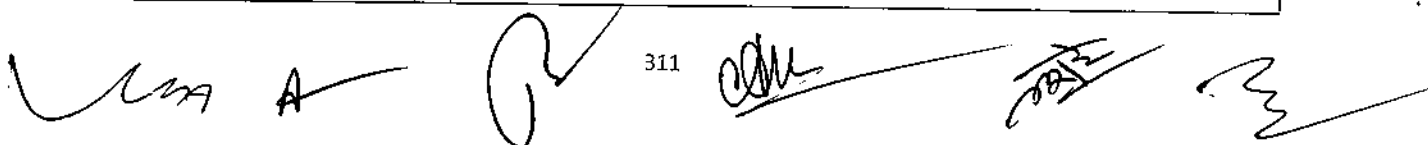

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STATUTORY CLEARANCES :

1	LOI/Lease docs	: The land argeement has been made .
2	CO	: The CO, Boram, East Singhbhum vide letter no. 300 dated 30-08-2018 has mentioned the plot of the project is not recorded as "Jangle Jhari" in Khatiyar.
3	DMO	: DMO, East Singhbhum vide letter no. 128 dated 28.01.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Dalma Elephant Project, Jamshedpur vide letter no. 96 dated 18-01-2021 certified that the National Park is not within 10 km from project site and also certified that the project site is located outside of Sanctuary (Dalma Wildlife Sanctuary) & ESZ.
5	DFO Forest Distance	: DFO Jamshedpur Forest Division vide letter no. 3233, dated 11-12-2021 certified that the distance of RF/PF from the Project site is more than 250 m.
6	DSR	: The DC, East Singhbhum, Jamshedpur vide letter no.1499/M dated 06/12/2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 26-08-2018
8	Mine Plan Approval	: Vide letter no. 37/G dated 05/02/2022

Working Details

1	Mining Method	: Open Cast manual method
2	Quarry Area	: 5 years-0.436 ha Life of Mine - 0.436ha
3	Waste Generation	: 5 years-Nil Life of Mine - Nil
4	Stripping Ratio	: 1: 0.0
5	Working Days	: 150
6	Benches: size & No	: 1m x 1m
7	Elevation of Mine	: 130 AMSL to 131 AMSL
8	Ground Level Elevation	: 130 AMSL
9	Ultimate Working Depth	: 128 AMSL (2 mbgl)
10	Water Table	: 120 AMSL (10 mbgl)
11	Topography of Mine	: Area represents flat topography
12	Explosive Requirement	: Not applicable



13	Diesel/Fuel requirement	: 3 litre/day
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Production Details :

Year	Total excavation of brick earth in cum	Total excavation of brick earth
		MT=Cum x 1.8
1 st	1627.00	2928.60
2 nd	1536.00	2764.80
3 rd	1620.00	2916.00
4 th	1603.00	2885.40
5 th	1416.00	2548.80
Total	7802.00	14043.60

Land Use

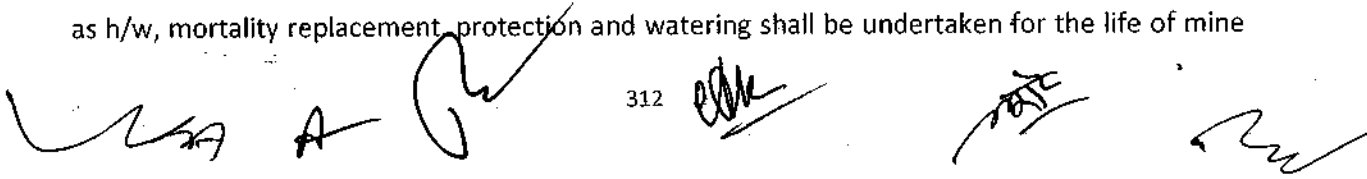
Pattern of Utilization	Existing (Ha)	Plan period (Ha)
Quarry	Nil	0.436
Brick Kiln	Nil	0.15
Green Belt	Nil	0.074
Top soil storage	Nil	0.001
Storage of casted brick	Nil	0.01
Total	Nil	0.671
Unused Area	1.05	0.379
Total Area	1.05	1.05

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.074 ha	200
2	Haul /Approach Road	: 0.60 km	600

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine



as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Nil

Water Quality Management

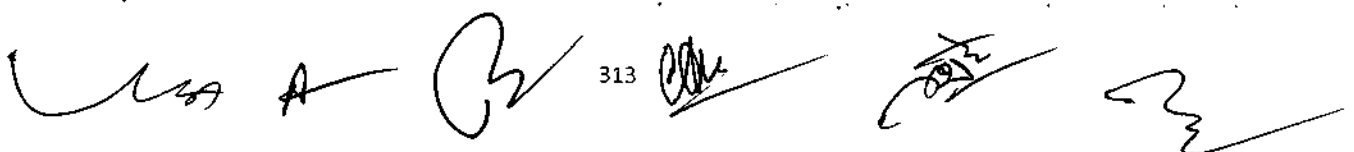
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.

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- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Rechadih Brick Clay Deposit of M/s M.M.B. Bricks, Village : Rechadih, P.O. : Boram, P.S. : Boram, Dist. : East Singhbhum, Jharkhand (1.05 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

10. Kadamjora Brick Soil Mine of M/s N.K.M. Enterprises, Village : Kadamjora, Thana : Patamda, Dist. : East Singhbhum, Jharkhand (1.16 Ha).

{Proposal No. : SIA/JH/ MIN/247188/2021}.

Project Category: B2 – Application for Environment Clearance

EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Kadamjora Brick Earth Deposit
2	Lessee:	: M/S N.K.M. Enterprises Proprietor - Shri. NilkamalMahato ShriNilkamalMahato S/o Late KuhurMahato Village- Guglubani, P.O.- Rasiknagar, P.S.- Boram, District- East Singhbhum, Jharkhand
3	Lease Address	: Village: Kadamjora, Thana.- Patamda, District- East Singhbhum, Jharkhand
4	Lease Area	: Ha:1.16ha Acres:2.86 Acres

5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 15 Lakhs
7	EMP Budget	:	Capital: 2.27Lakhs Recurring: 2.97 Lakh / year
8	CSR / CER Budget	:	Rs. 0.30 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:20880.00Cu. M. Tonnes:27144.00MT
11	Mine Life	:	11 Seasons
12	Man power	:	11
13	Water Requirement	:	5.70 KLD (Drinking:0.12KLD,Dust Suppression:2.40KLD, Plantation:3.18KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No Crusher
17	Nearest Water Body	:	SonaNadi, Approx. 2.50km, ESE Side Nengsai River, Approx. 6.80km,NNE Side
18	Nearest Habitation	:	Kadamjora, 0.70km
19	Nearest Rail Station	:	Biramdih Railway Station, approx. 17.60 km, WNW Side
20	Nearest Air Port	:	BirsaMunda Airport, Ranchi, approx. 111.00 km,W side
21	Nearest Forest	:	Hathiadih Protected Forest, Approx. 8.10 km W direction Kherua Protected Forest, Approx. 8.20 km SSE direction Protected Forest near Nilmohanpur, Approx. 6.30 km NNE direction
22	Road & Highways	:	NH-116B, approx, 6.40 km towards N direction SH-5, approx., 18.80 km towards ESE direction

CO-ORDINATES





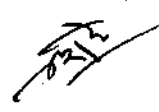

1	Latitude	From 22°58'14.70"N	To 22°58'19.79"N
2	Longitude	From 86°20'54.12"E	To 86°20'59.77"E

LAND DETAILS :

			Khata no	Plot no
1	Nachibera	:	91	607, 608 & 619
			92	604 & 605

STATUTORY CLEARANCES :

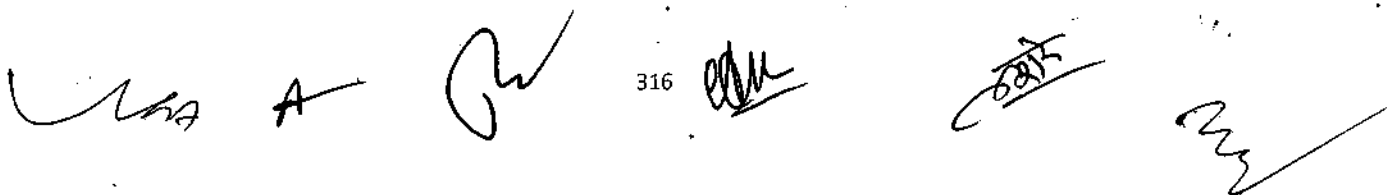
1	LOI/Lease docs	:	The land argeement has been made on 27.07.2021
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2	CO	: The CO, Boram vide letter no. 434, dated 04/09/2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	: DMO, East Singhbhum vide letter no. 1352/M dated 28-10-2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1599 dated 11/10/2021 certified that the National Park is not within 10 km from project site and also certified that the project site is located outside of Sanctuary (Dalma Wildlife Sanctuary) & ESZ.
5	DFO Forest Distance	: DFO Jamshedpur Forest Division vide letter no. 2642, dated 20/10/2021 certified that the distance of RF/PF from the Project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, East Singhbhum vide letter no-1499/ M dated 06-12-2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 28-08-2021
8	Mine Plan Approval	: Vide letter no. 706/G dated 07/10/2021

Working Details

1	Mining Method	: Open Cast manual method
2	Quarry Area	: 5 years-0.34ha Life of Mine - 0.76ha
3	Waste Generation	: 5 years-Nil Life of Mine - Nil
4	Stripping Ratio	: 1: 0.0
5	Working Days	: 200
6	Benches: size & No	: 1m x 1m
7	Elevation of Mine	: 252AMSL to 253AMSL
8	Ground Level Elevation	: 252 AMSL
9	Ultimate Working Depth	: 251AMSL (2bgl)
10	Water Table	: 243 AMSL (10 bgl)
11	Topography of Mine	: Area represents flat topography
12	Explosive Requirement	: Not applicable
13	Diesel/Fuel requirement	: 3 litre/day



Production Details

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 st	1200.00	600000	1560.00
2 nd	1200.00	600000	1560.00
3 rd	1200.00	600000	1560.00
4 th	1200.00	600000	1560.00
5 th	1200.00	600000	1560.00
Total	6000.00	3000000	7800.00

Land Use

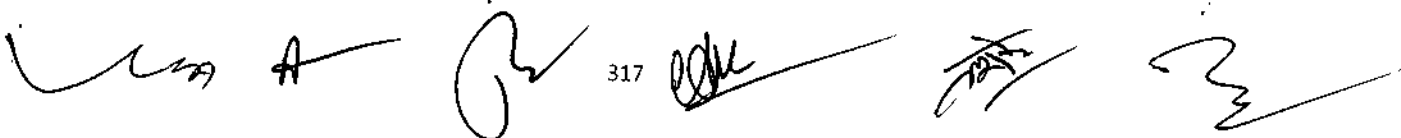
Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.34	0.76 (Cultivable Land)
Road	Nil	0.01	Nil
Safety Barrier	Nil	0.40	0.40
Total	0.0	0.75	1.16
Unused Area	1.16	0.41	0.000
Total leasehold Area	1.16	1.16	1.16

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.40 ha	1000
2	Haul /Approach Road	: 0.06 km	60

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such



as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Nil

Water Quality Management




- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.



- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kadamjora Brick Soil Mine of M/s N.K.M. Enterprises, Village : Kadamjora, Thana : Patamda, Dist. : East Singhbhum, Jharkhand (1.16 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

11. Darkhuli Brick Earth Deposit of M/s Suchi Bricks, Village : Darkhuli, Thana : Ghatshila, Thana No. : 631, Dist. : East Singhbhum, Jharkhand (1.679 Ha).

(Proposal No. : SIA/JH/MIN/254177/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Darkhuli Brick Earth Deposit
2	Lessee:	: M/S Suchi Bricks Proprietor - Shri Sudipta Kumar Giri Village-Nutandihi, P.O-Jhargram ,P.S-Jhagram, Dist-West Midnapore, State- West Bengal
3	Lease Address	: Village: Darkhuli, Thana.- Ghatshila, District- East Singhbhum, Jharkhand

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4	Lease Area	:	Ha:1.679 ha	Acres:4.15 Acres
5	Type of Land	:	Non Forest – Raiyati Land	
6	Project Cost	:	Rs. 20 Lakhs	
7	EMP Budget	:	Capital: 4.65 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.40 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.: 21020.00 Cu. M.	Tonnes: 27326.00 MT
11	Mine Life	:	17.51 years or 18 years	
12	Man power	:	13	
13	Water Requirement	:	11.50 KLD (Drinking:0.13 KLD, Dust Suppression:5.00 KLD, Plantation:6.00 KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	-	
16	Crusher	:	No Crusher	
17	Nearest Water Body	:	Subarneka Nadi, Approx. 4.50 km, S Side	
18	Nearest Habitation	:	Darkhuli, 0.60 km	
19	Nearest Rail Station	:	Chakulia Railway Station, approx. 27.00 km, NW Side	
20	Nearest Air Port	:	Birsamunda Airport, Ranchi, approx. 190.00 km, W side	
21	Nearest Forest	:	Protected Forest near Lodhabani village, Approx 8.5 km towards NE direction Protected Forest near Luti jhuni, Approx 9.0 km towards SSW direction	
22	Road & Highways	:	NH-49, approx, 4.5 km towards N direction	

CO-ORDINATES :

1	Latitude		From 22°14'48" N	To 22°14'56"N
2	Longitude		From 86°47'53" E	To 86°47'59" E

LAND DETAILS :

1	Darkhuli	:	Khata No.	Plot no.
			01	9
			10	132
			12	88
			27	144 &143
			41	86
			57	85
			60	53,87

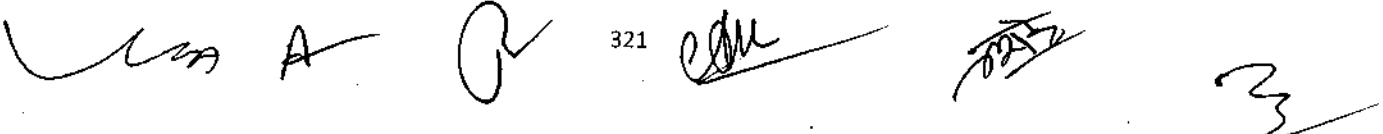
	62	50, 84, 145 & 163
	72	89
	79	161
	89	83

STATUTORY CLEARANCES :

1	LOI/Lease docs	: The land agreement has been made on 19.10.2020
2	CO	: The CO, Boharagora vide letter no. 706, dated 08/10/2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan.
3	DMO	: DMO, East Singhbhum, Jamshedpur vide letter no. 1518/M on 11.12.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1472 dated 21/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Jamshedpur Forest Division vide letter no. 1986, dated 01/09/2021 certified that the distance of reserved / protected forest from the Project site is more than 250 m.
6	DSR	: The DC, East Singhbhum, Jamshedpur vide letter no. 1499, dated 06.12.2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 09-12-2020
8	Mine Plan Approval	: Vide memo no. 776/G dated 23/11/2021

Working Details :

1	Mining Method	: Open Cast manual method	
2	Quarry Area	: 5 years-0.300 ha	Life of Mine - 0.765ha
3	Waste Generation	: 5 years-Nil	Life of Mine - Nil
4	Stripping Ratio	: 1: 0.0	
5	Working Days	: 200	
6	Benches: size & No	: 1m x 1m	
7	Elevation of Mine	: 48 AMSL to 60 AMSL	
8	Ground Level Elevation	: 48 AMSL	
9	Ultimate Working	: 46 AMSL (16 bgl)	


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	Depth		
10	Water Table	:	40 AMSL (20 bgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	3 litre/day

Production details :

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 st	1200.00	600000	1560.00
2 nd	1200.00	600000	1560.00
3 rd	1200.00	600000	1560.00
4 th	1200.00	600000	1560.00
5 th	1200.00	600000	1560.00
Total	6000.00	3000000	7800.00

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarrying	Nil	0.300	0.765 (reclaimed as cultivated land and handed over to the concern raiyat)
Storage of casted bricks	Nil	0.100	Storage of casted bricks within quarry
Plantation at safety zone	Nil	0.694	0.694
Proposed kiln	Nil	0.220	0.220
Total Area	1.679	1.314	1.679

**ENVIRONMENT MANAGEMENT
Green Belt Development**

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.694 ha	1740
2	Haul /Approach Road	: 0.02 km	260

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

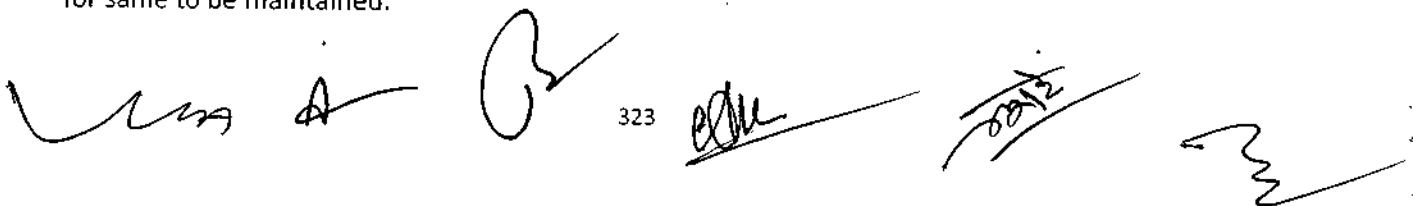
- Nil

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.



- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Darkhuli Brick Earth Deposit of M/s Suchi Bricks, Village : Darkhuli, Thana : Ghatshila, Thana No. : 631, Dist. : East Singhbhum, Jharkhand (1.679 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

12. Sundarpahari Stone Deposit of Md. Joshim Ali, Village : Sundarpahari, Thana : Pakur(M), Dist. : Pakur, Jharkhand (1.893 Ha) .

(Proposal No. : SIA/JH/MIN/72416 /2022).

Project Category: B1 – Application for ToR

EC Application for: Proposed Capacity- 51,003.22 cu.m/annum or 1,27,508.05 TPA

Name of the consultant: P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

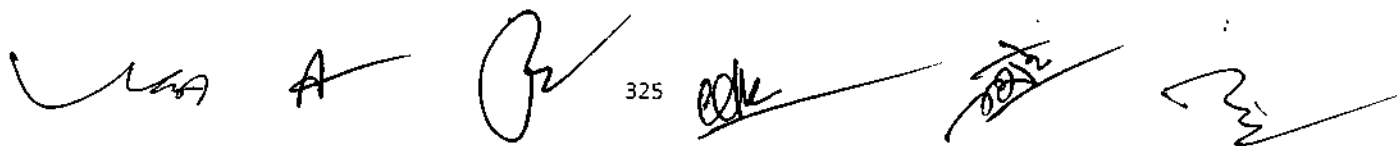
Sl	Parameter	Details
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1	Project Name	:	Sundarpahari Stone Deposit
2	Lessee:	:	Md. Joshim Ali S/o Haidar Ali At Village- Kismat Lakhanpur, Thana - Pakur(M), District- Pakur, Jharkhand.
3	Lease Address	:	Village – Sundarpahari, Thana- Pakur(M), District – Pakur, State – Jharkhand.
4	Lease Area	:	1.893 ha Acres- 4.68 Acre
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 30 Lakhs
7	EMP Budget	:	Capital: 4.01 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.60 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.m.: 4,37,482.60 cum Tonnes: 10,93,706.50 tons
11	Mine Life	:	8.57 years
12	Man power	:	32
13	Water Requirement	:	8.0 KLD (Drinking: 0.35 KLD, Dust Suppression: 4.70 KLD, Plantation:3.0 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Bansloi Nadi Approx. 7.0 km towards SE direction. Farakka Feeder canal, Approx. 9.50 km towards ENE direction.
18	Nearest Habitation	:	Sundarpahari, 0.30 km, S direction.
19	Nearest Rail Station	:	Nagarnabi Railway station, approx. 10.5 km toward East direction.
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, approx. 123.50 km towards SSW direction.
21	Nearest Forest	:	Protected Forest near Mohanpur Village at approx 3.0 km towards W direction of mine site. RF near Mahurpur village at 9.50 km towards S direction of mine site.
22	Road & Highways	:	NH-114A , Approx. 6.50 km. in North direction. SH-7, Approx. 3.5 km in South East direction.

CO-ORDINATES :

1	Latitude	From 24°34'39.55" N	To 24°34'44.93" N
2	Longitude	From 87°51'26.47" E	To 87°51'33.09" E


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LAND DETAILS :

Khata no.	Plot no.
02	948, 949/P, 950/P, 951/P
06	955, 956, 957/P, 958/P, 940/P
19	941/P, 942/P, 943/P, 944, 945, 946, 947
28	952/P, 953/P, 954/P, 1305, 1306, 1307, 1308, 1309 & 1310

STATUTORY CLEARANCES

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1000/M, dated 01-07-2021.
2	CO	: The CO, Pakur vide letter no. 1252, dated 17-08-2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	: DMO, Pakur vide memo no. 1664/M dated 20.09.2021 certified that 03 other lease (1.85 acre, 6.88 acre & 7.43 acre) exist within 500 m radius from proposed project site and total area is 8.43 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1036, dated 23-06-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division vide letter no. 816 dated 28-05-2021 certified that the distance from the nearest RF/PF from the project site is more than 250 m.
6	DSR	: Project name is mentioned in District Survey report (DSR) Pakur.
7	Gram Sabha	: On 29-07-2020
8	Mine Plan Approval	: Vide Memo no. 1543/M on 03.09.2021

Working Details

1	Mining Method	: Opencast other than fully mechanized method (OTFM)
2	Quarry Area	: 5 years – 1.426 ha Life of Mine – 1.426 Ha
3	Waste Generation	: 5 years – 48757.49 cu.m
4	Stripping Ratio	: 1: 0.16

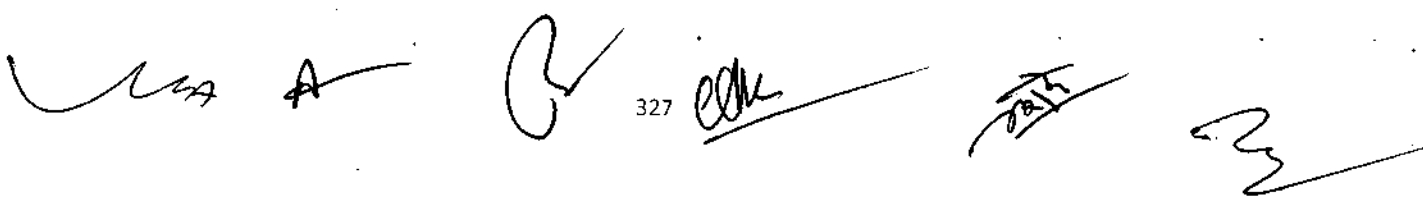
5	Working Days	:	300
6	Benches: size & No	:	6m x 10m
7	Elevation of Mine	:	32 AMSL to 38 AMSL
8	Ground Level Elevation	:	9.90 AMSL
9	Ultimate Working Depth	:	7.0 AMSL (2.9 mbgl)
10	Water Table	:	4.0 AMSL (5.90 mbgl)
11	Topography of Mine	:	Area represents a small undulating flat land.
12	Explosive Requirement	:	42 kg slurry explosive
13	Diesel/Fuel requirement	:	8 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	127500.83	51000.33	21406.86	38 mRL - 26 mRL
2 nd	127496.86	50998.74	2684.14	26 mRL - 14 mRL
3 rd	127495.70	50998.28	19297.87	38 mRL - 26 mRL
4 th	127508.05	51003.22	2684.38	26 mRL - 14 mRL
5 th	127501.63	51000.65	2684.24	32 mRL - 14 mRL
Total	637503.07	255001.22	48757.49	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation	Nil	1.426	1.426 (0.990 ha area shall be left as water reservoir for rain water harvesting and 0.436 ha will be backfilled)
Waste Dump	1.526	Nil	Nil
Road	0.005	Nil (within quarry)	Nil (within quarry)
Infrastructure	0.009	(comes under quarry)	(comes under quarry)
Plantation (Green Belt)	Nil	0.467 (within safety zone)	0.467 (within safety zone)
Unused Area	0.353	0.000	0.000
Total	1.893	1.893	1.893



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ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.467 ha	1170
2	Haul /Approach Road	:	0.37 km	370

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

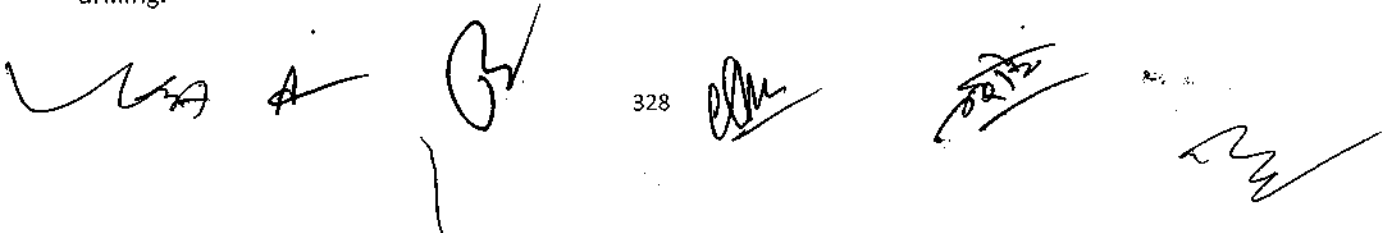

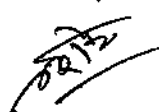

- Waste Generation will be 48757.49 cum waste (overburden & intercalated) (dump area- 1.526 ha) during the plan period. The generated waste will be dump temporarily on the southern side of the lease area & will be used in maintenance of mine road and village road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.

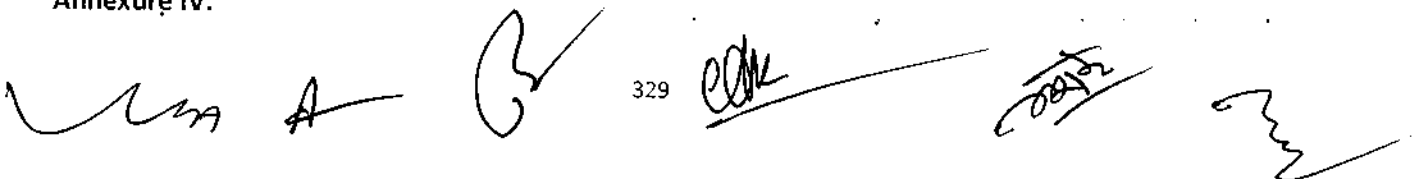
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- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25&26.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.



13. Betakocha Brick Clay Mining of M/s Anil Bricks, Proprietor- Shri Rajendra Kumar Singh, Village : Betakocha, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (0.591 Ha).

(Proposal No. : SIA/JH /MIN/238394 /2021).

Applied Area: 1.46 Acres (0.591 Ha)

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1200 m³/yr;

6000 m³ during plan period

Top soil: 1252.05 m³ during plan period.

DG Set: Not proposed

Mobile Crusher: Not proposed

Name of the consultant: Visiontek Consultancy Pvt. Ltd., Bhubneshwar

This is a new project which has been taken for appraisal on 22.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Betakocha Brick Clay Mining
2	Lessee:	: M/s Anil Bricks, Proprietor- Shri Rajendra Kumar Singh
3	Lease Address	: At: Village - Betakocha, P.O.- Ghatsila P.S. – M.G.M. (Ghatshila), District – East Singhbhum, Jharkhand.
4	Lease Area	: Ha:0.591 Acres:1.46
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Rs. 13.90 Lakhs
7	EMP Budget	: Capital: Rs. 2.00 Lakhs Recurring: Rs. 1.85 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	: Rs. 0.69 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 6765.1 Cu. M. Tonnes: Nil
11	Mine Life	: 5.6 years
12	Man power	: 12 Person
13	Water Requirement	: 2.98 KLD (Drinking: 0.40 KLD, Dust Suppression & Plantation: 2.58 KLD)
14	Water Source	: Through Water Tanker –near by spring/Nala & Wells
15	DG Set / power	: Not Applicable
16	Crusher	: Not Applicable
17	Nearest Water Body	: Subarnerekha river at 0.60 Km in S Dimna reservoir at 5.80 km in NW
18	Nearest Habitation	: Jagannathpur village 1.53 km NW direction from the mine site.
19	Nearest Rail Station	: Tatanagar Railway Station 10.14 km SW direction from the mine site.

20	Nearest Air Port	:	Ranchi Airport - 114 km W direction from the mine site.
21	Nearest Forest	:	340 m, as per forest division. Letter no – 3213 Dt- 29-09-2018 and Letter no.- 2736 Dt- 25-10-2021
22	Road & Highways	:	NH 33 at 1.07 km N direction from the mine site.

CO-ORDINATES

1	Latitude	:	From 22° 48' 18.16" N	To 22° 48' 13.47" N
2	Longitude	:	From 86° 17' 31.39" E	To 86° 17' 30.97" E

LAND DETAILS

The lease area is situated near Betakochoa,

Khata No.	Plot No.	Area in Acre / Ha.
09	386	1.46 / 0.591

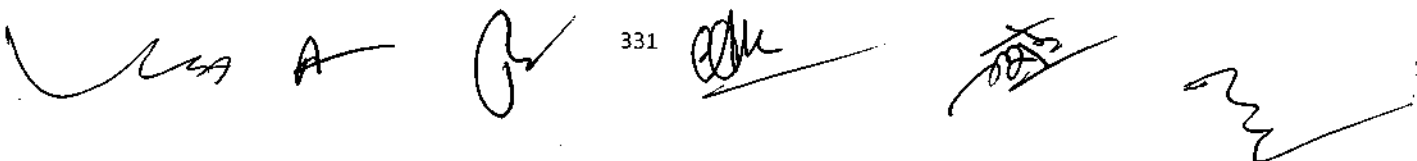
STATUTORY CLEARANCES

1	LOI/Lease docs	:	Land Agreement
2	CO	:	The CO, Jamshedpur, East Singhbhum vide letter no. 2864, dated 20.11.2018 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
3	DMO	:	DMO, East-Singhbhum, Jamshedpur vide letter no. 541/M, dated 05.04.2021 certified that no lease exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 599, dated 29.06.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 2736, dated 25.10.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project area is mentioned District Survey Report, Jamshedpur (Bricks)
7	Gram Sabha	:	Latter no.- 74/2018 On 10.11.2020
8	Mine Plan Approval	:	Letter No. 157/G dated 17.11.2020

WORKING DETAILS

1	Mining Method	:	Opencast Manual Mining
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2	Quarry Area	:	5 years-0.441 ha	Life of Mine - 0.441ha
3	Waste Generation	:	5 years-Nil	Life of Mine -5.6 years
4	Stripping Ratio	:	NA	
5	Working Days	:	200 days/year	
6	Benches: size & No	:	1m x 1m	
7	Elevation of Mine	:	In 140 MSL	
8	Ground Level Elevation	:	In 140 MSL	
9	Ultimate Working Depth	:	In 138 MSL	
10	Water Table	:	In 140MSL and also 4.8-5.0 m bgl	
11	Topography of Mine	:	Flat area	
12	Explosive Requirement	:	Not applicable	
13	Diesel/Fuel requirement	:	Not applicable due to manual mining	

PRODUCTION DETAILS

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 st	1200	1252.05
2 nd	1200	
3 rd	1200	
4 th	1200	
5 th	1200	
Total	6000	1252.05

LAND USE

Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.00	0.00	1.09	0.441	0.501 (Converted to levelled land with topsoil spread)
Topsoil storage, Road/ Infrasturer./ etc.	0.00	0.00	0.15	0.060	
Berm Area & Plantation	0.00	0.00	0.22	0.090	Area under plantation
Unutilized Area	1.46	0.591	0.00	0.000	0.00
Total Area	1.46	0.591	1.46	0.591	0.591

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.060 Ha	000
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 340 meter	150 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Top soil Generation will be 1252.05 Cu.M. during the life of Mine. Top soil storage area is 0.02ha. The top soil shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 2m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

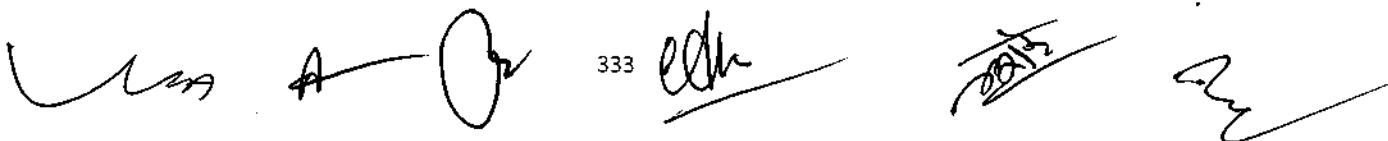

- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.

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- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Betakocha Brick Clay Mining of M/s Anil Bricks, Proprietor- Shri Rajendra Kumar Singh, Village : Betakocha, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (0.591 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

14. Betakocha Brick Clay Mining of M/s Jyoti Bricks & Enterprises Bricks, Proprietor- Shri Ashwini Gour, Village : Betakocha, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (1.105 Ha) .

(Proposal No. : SIA/JH /MIN/241169 /2021).

Applied Area: 2.73 Acres (1.105 Ha)

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 2400 m³/yr;

12000 m³ during plan period

Top soil: 2437.70 m³ during plan period.

DG Set: Not proposed

Mobile Crusher: Not proposed

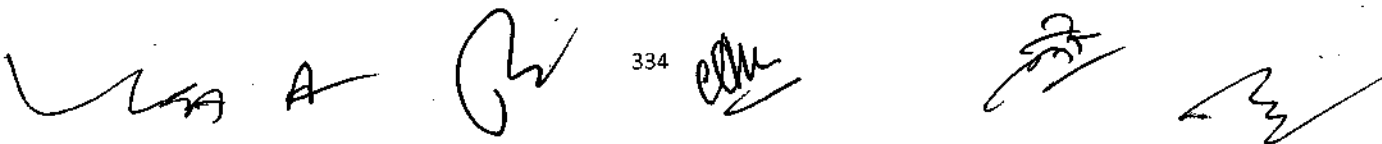
Name of the consultant: Visiontek Consultancy Pvt. Ltd., Bhubneshwar

This is a new project which has been taken for appraisal on 22-02-2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Betakocha Brick Clay Mining
2	Lessee:	: M/s Jyoti Bricks & Enterprises Bricks, Proprietor- Shri Ashwini Gour

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3	Lease Address	: At: Village – 22, Pokhari, P.O.-Bhilaipahari, P.S. – M.G.M. (Ghatsila), District – East Singhbhum, Jharkhand.
4	Lease Area	: Ha:1.105 Acres:2.73
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Rs. 20.50 Lakhs
7	EMP Budget	: Capital: Rs. 3.10 Lakhs Recurring: Rs. 2.10 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	: Rs. 1.02 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 13219.99 Cu. M. Tonnes: Nil
11	Mine Life	: 5.51 years say 5 Years Only
12	Man power	: 25 Person
13	Water Requirement	: 5.40 KLD (Drinking: 0.50 KLD, Dust Suppression & Plantation: 4.90 KLD)
14	Water Source	: Through Water Tanker –near by spring/Nala & Wells
15	DG Set / power	: Not Applicable
16	Crusher	: Not Applicable
17	Nearest Water Body	: Subarnerekha river at 0.28 Km in S Dimna reservoir at 6.04 km in NW
18	Nearest Habitation	: Betakocha village 0.20 km N direction from the mine site.
19	Nearest Rail Station	: Tatanagar Railway Station 9.70 km SW direction from the mine site.
20	Nearest Air Port	: Birsa munda Airport, Ranchi 114 km NW direction from the mine site.
21	Nearest Forest	: 260 m, as per forest division. Letter no – 2901; Dt- 28-08-2018 Letter no.- 2737; Dt- 25-10-2021
22	Road & Highways	: NH 33 at 1.38 km NE direction from the mine site.

CO-ORDINATES

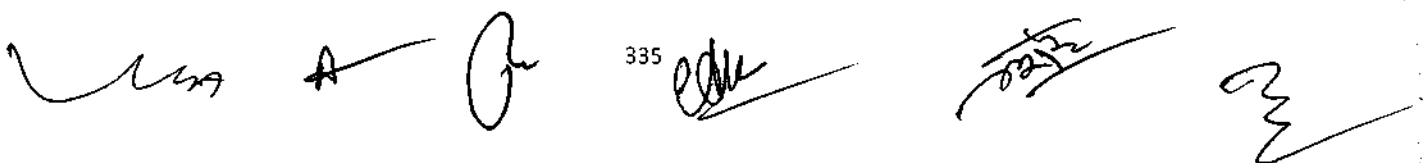
1	Latitude	: From 22° 48' 03.92" N	To 22° 48' 07.69" N
2	Longitude	: From 86° 17' 24.10" E	To 86° 17' 29.31" E

LAND DETAILS

The lease area is situated near Betakocha,

Khata No.	Plot No.	Area In Acre.
92	151(P), 152(P)	0.67
90	153(P)	1.11
10	154,155,156	1.75
107	113	0.70
Total Area in Acre		3.23

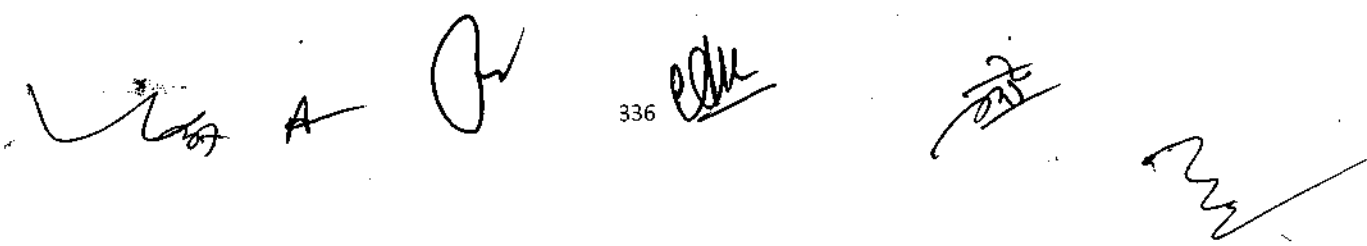
STATUTORY CLEARANCES



1	LOI/Lease docs	:	Land Agreement
2	CO	:	The CO, Mango vide letter no. 677, dated 13.09.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
3	DMO	:	DMO, East-Singhbhum, Jamshedpur vide memo no. 1392/M, dated 14.10.2019 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1052, dated 18.10.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 2737, dated 25.10.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project area is mentioned District Survey Report, Jamshedpur (Bricks)
7	Gram Sabha	:	Letter no.- 30/2019 On 15.08.2019
8	Mine Plan Approval	:	Letter No. 629/G dated 01.11.2019

WORKING DETAILS

1	Mining Method	:	Opencast Manual Mining
2	Quarry Area	:	5 years-- 0.684 ha Life of Mine – 0.684 ha
3	Waste Generation	:	5 years--Nil Life of Mine –5.51 years
4	Stripping Ratio	:	NA
5	Working Days	:	200 days/year
6	Bench: size & No	:	1m x 1m
7	Elevation of Mine	:	In 127 MSL
8	Ground Level Elevation	:	In 127MSL
9	Ultimate Working Depth	:	In 125MSL
10	Water Table	:	In 121MSL and also 4.8-5.0 m bgl
11	Topography of Mine	:	Flat area
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	Not applicable due to manual mining


 A series of handwritten signatures and initials are present at the bottom of the page. From left to right, there is a signature that appears to be 'Vish A', followed by a large 'R', a signature 'edk', a signature '2019', and a final signature '2019'.

PRODUCTION DETAILS

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 st	2400	2437.70
2 nd	2400	
3 rd	2400	
4 th	2400	
5 th	2400	
Total	12000	

LAND USE

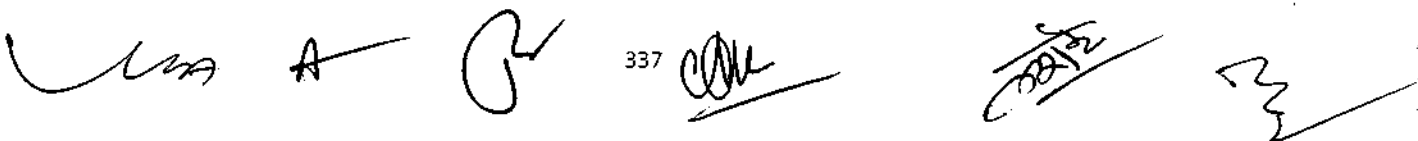
Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.00	0.00	1.69	0.684	(Converted to levelled land with topsoil spread)
Topsoil storage, Road/ Infrasturur./ etc.	0.00	0.00	0.40	0.162	
Berm Area& Plantation	0.00	0.00	0.24	0.097	Area under plantation
Unutilized Area	2.73	1.105	0.40	0.162	0.00
Total Area	2.73	1.105	2.73	1.105	1.105

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.162 Ha	000
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 250 meter	150 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine.


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as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Top soil Generation will be 2437.70 Cu.M. during the life of Mine. Top soil storage area is 0.02ha. The top soil shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

1. Mining operation will be restricted to the depth of 2m from surface level.
2. Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

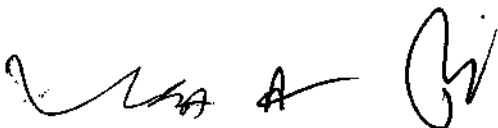
1. Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
2. Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads. \
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.



16	Crusher	:	Not Applicable
17	Nearest Water Body	:	Juriya Nala at 0.25 Km in N Jamda Nadi at 4.5 Km in NE Dosimani Nadi at 0.20 Km in W
18	Nearest Habitation	:	Kowalivillage 1.10 km SW direction from the mine site.
19	Nearest Rail Station	:	Sidhirsai Railway Station 4.36 km SW direction from the mine site.
20	Nearest Air Port	:	Birsamunda Airport, Ranchi 124 km NW direction from the mine site.
21	Nearest Forest	:	Protected Forest at 2.5 Km S Tuaradungri RF 5.52 Km SW Jojodih RF at 7.5 Km SW
22	Road & Highways	:	NH at 9.13 km W direction from the mine site.

CO-ORDINATES

1	Latitude	:	From 22°31' 13.51" N	To 22° 31' 17.03" N
2	Longitude	:	From 86° 11' 13.98" E	To 86° 11' 17.78" E

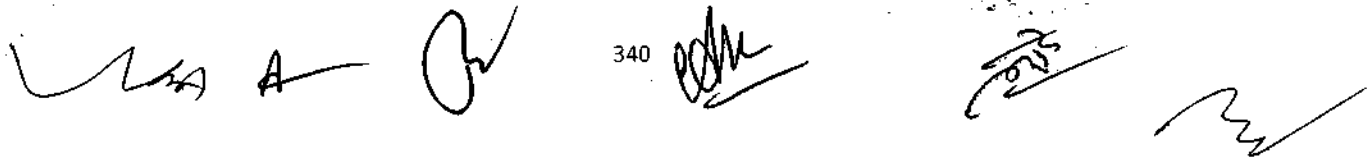
LAND DETAILS

The lease area is situated near Nischintpur,

Khata No.	Plot No.	Area In Acre.
34	32	2.020
Total Area in Acre		2.020

STATUTORY CLEARANCES

1	LOI/Lease docs	:	Land Agreement
2	CO	:	The CO, Potka, East Singhbhum vide letter no. 720, dated 22.11.2018 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, East-Singhbhum, Jamshedpur vide memo no. 869/M, dated 13.07.2021 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1602, dated 20.10.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 1546, dated 23.07.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project area is mentioned District Survey Report,



			Jamshedpur (Bricks)
7	Gram Sabha	:	Letter no.- 1288 On 04.12.2018
8	Mine Plan Approval	:	Letter No. 451/G dated 23.02.2019

WORKING DETAILS :

1	Mining Method	:	Opencast Manual Mining
2	Quarry Area	:	5 years- 0.685 ha
3	Waste Generation	:	5 years- Nil
4	Stripping Ratio	:	NA
5	Working Days	:	200 days/year
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	In 190 MSL
8	Ground Level Elevation	:	In 190MSL
9	Ultimate Working Depth	:	In 188MSL
10	Water Table	:	In 184MSL and also 4.8-5.0 m bgl
11	Topography of Mine	:	Flat area
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	Not applicable due to manual mining

PRODUCTION DETAILS

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 st	2400	1690.72
2 nd	2400	
3 rd	2400	
4 th	2400	
5 th	2400	
Total	12000	1690.72

LAND USE

Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.000	0.000	1.693	0.685	0.777 (Converted to levelled land with topsoil spread)
Topsoil storage, Road/ Infrasturer./ etc.	0.000	0.000	0.227	0.092	

Berm Area & Plantation	0.000	0.000	0.100	0.040	Area under plantation
Unutilized Area	2.020	0.817	0.000	0.000	0.000
Total Area	2.020	0.817	2.020	0.817	0.817

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.092 Ha	000
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 200 meter	120Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Top soil Generation will be 1690.72Cu.M. During the life of mine. Top soil storage area is 0.02ha. The top soil shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

1. Mining operation will be restricted to the depth of 2m from surface level.
2. Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

1. Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
2. Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

WAA A

Or

adm

[Signature]

[Signature]

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Nischintpur Brick Clay Mining of M/s Puja Bricks, Proprietor- Shri Dinesh Kumar Gupta, Village : Nishchintpur, Tehsil : Potka, Dist. : East Singhbhum, Jharkhand (0.817 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

16. Barabanki Brick Clay Mining of M/s Minu Bricks, Proprietor- Shri Shiv Charan Gour, Village : Barabanki, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (0.70 Ha).

(Proposal No. : SIA/JH /MIN/237815 /2021).

Applied Area: 1.73 Acres (0.70 Ha)

Project Category: B2 – Application for Environment Clearance

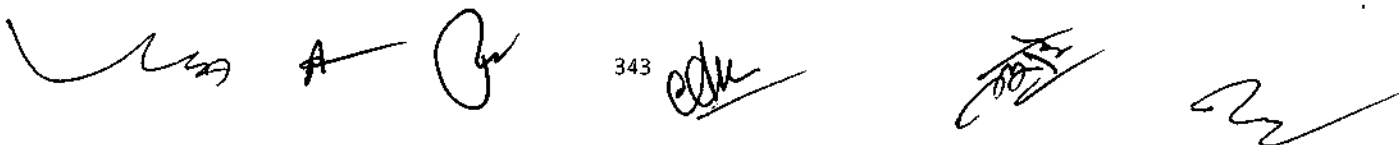
**EC Application for: Soil: 2000 m³/yr;
10000 m³ during plan period
Top soil: 1581.75 m³ during plan period.
DG Set: Not proposed
Mobile Crusher: Not proposed**

Name of the consultant: Visiontek Consultancy Pvt. Ltd., Bhubneshwar

This is a new project which has been taken for appraisal on 22-02-2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
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1	Project Name	:	Barabanki Brick Clay Mining	
2	Lessee:	:	M/s Minu Bricks, Proprietor- Shri Shiv Charan Gour	
3	Lease Address	:	At: Village - Pokhari, P.O.-Bhilaipahari, P.S. – M.G.M. (Ghatsila), District – East Singhbhum, Jharkhand.	
4	Lease Area	:	Ha:0.70	Acres:1.73
5	Type of Land	:	Non Forest – Rayati Land	
6	Project Cost	:	Rs. 15.50 Lakhs	
7	EMP Budget	:	Capital: Rs. 3.00 Lakhs	Recurring: Rs. 2.40 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	:	Rs. 0.75 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.: 10058.80 Cu. M.	Tonnes: Nil
11	Mine Life	:	5.02 years say 5 Years Only	
12	Man power	:	18 Person	
13	Water Requirement	:	4.15 KLD (Drinking: 0.50 KLD, Dust Suppression & Plantation: 3.65 KLD)	
14	Water Source	:	Through Water Tanker –near by spring/Nala & Wells	
15	DG Set / power	:	Not Applicable	
16	Crusher	:	Not Applicable	
17	Nearest Water Body	:	Subarnereka river at 0.28 Km in south Dimna reservoir at 10.01 km in NW	
18	Nearest Habitation	:	Barabanki village 0.75 km NW direction from the mine site.	
19	Nearest Rail Station	:	Govindpur Railway Station 6.21 km S direction from the mine site.	
20	Nearest Air Port	:	Birsamunda Airport, Ranchi 117 km NW direction from the mine site.	
21	Nearest Forest	:	275 m, as per forest division. Letter no – 3207 Dt- 29-09-2018 Letter no.- 2605 Dt- 11-10-2021	
22	Road & Highways	:	NH 33 at 2.00 km NE direction from the mine site.	

CO-ORDINATES

1	Latitude	:	From 22° 46' 32.55" N	To 22° 46' 41.89" N
2	Longitude	:	From 86° 18' 44.01" E	To 86° 18' 47.60" E

LAND DETAILS

The lease area is situated near Barabanki,

Khata No.	Plot No.	Area In Acre.
39	871	0.20
39	872	0.26
39	873	0.19
206	868 (P)	0.65

W/A A B

CDM

TS

mm

209	869 (P)	0.43
Total Area in Acre		1.73

STATUTORY CLEARANCES

1	LOI/Lease docs	:	Land Agreement
2	CO	:	The CO, Mango vide letter no. 503, dated 09.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar.
3	DMO	:	DMO, East-Singhbhum, Jamshedpur vide letter no. 1152/M, dated 22.08.2019 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1050, dated 18.10.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 2605, dated 11.10.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project area is mentioned District Survey Report, Jamshedpur (Bricks)
7	Gram Sabha	:	Latter no.- 114/19 On 08.08.2019
8	Mine Plan Approval	:	Letter No. 631/G dated 01.11.2019

WORKING DETAILS

1	Mining Method	:	Opencast Manual Mining
2	Quarry Area	:	5 years-0.57 ha Life of Mine - 0.5706ha
3	Waste Generation	:	5 years-Nil Life of Mine -5.6 years
4	Stripping Ratio	:	NA
5	Working Days	:	200 days/year
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	In 125 MSL
8	Ground Level Elevation	:	In 125MSL
9	Ultimate Working Depth	:	In 123MSL
10	Water Table	:	In 119MSL and also 4.8-5.0 m bgl
11	Topography of Mine	:	Flat area
12	Explosive Requirement	:	Not applicable



13	Diesel/Fuel requirement	:	Not applicable due to manual mining
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PRODUCTION DETAILS

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 st	2000	1581.75
2 nd	2000	
3 rd	2000	
4 th	2000	
5 th	2000	
Total	10000	1581.75

LAND USE

Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.00	0.00	1.41	0.5706	0.6313 (Converted to levelled land with topsoil spread)
Topsoil storage, Road/ Infrasturur./ etc.	0.00	0.00	0.15	0.0607	
Berm Area & Plantation	0.00	0.00	0.17	0.0687	Area under plantation
Unutilized Area	1.73	0.70	0.00	0.00	0.00
Total Area	1.73	0.70	1.73	0.70	0.70

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.607 Ha	000
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 250 meter	150 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species

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such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Top soil Generation will be 1581.75 Cu.M. during the life of Mine. Top soil storage area is 0.02ha. The top soil shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

1. Mining operation will be restricted to the depth of 2m from surface level.
2. Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

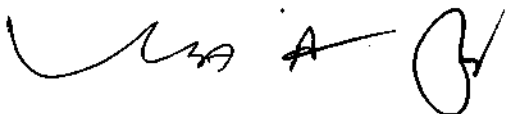
1. Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
2. Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:


1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.



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- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Barabanki Brick Clay Mining of M/s Minu Bricks, Proprietor- Shri Shiv Charan Gour, Village : Barabanki, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (0.70 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

17. Khagachua Stone Deposit for M/s S.E. Stone Works of Shri Ignesh Tudu at Vill – Khagachua, Thana – Pakuria, Dist – Pakur, Jharkhand (2.15 Ha).

(Proposal No. : SIA/JH/MIN/46271/2019).

Applied Area: 5.32 Acres (2.15 Ha)

Project Category: B2 – Application for Environment Clearance

EC Application for: Stone : 68838 TPA ~ 22946 m³/yr;

Waste : 6102 Tonnes ~ 4068 m³ (Gritty Soil) during plan period.

DG Set :Not proposed

Crusher : Proposed crusher in mine site

Name of the consultant : Visiontek Consultancy Pvt. Ltd., Bhubneshwar

This is a new project which has been taken for appraisal on 22-02-2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	: Khagachua Stone Deposit	
2	Lessee:	: M/s S.E. Stone Works, Proprietor- Shri Egnesh Tudu	
3	Lease Address	: At Mouza/ Village- Khagachua, PS.- Pakuria, Dist- Pakur	
4	Lease Area	: Ha:2.15	Acres: 5.32
5	Type of Land	: Non Forest – Rayati Land	
6	Project Cost	: Rs. 114.50 Lakhs	
7	EMP Budget	: Capital: Rs. 8.50 Lakhs	Recurring: Rs. 4.10 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	: Rs. 2.29 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 207970 Cu. M.	Tonnes: 623910
11	Mine Life	: 10 Years Only	
12	Man power	: 30 Person	
13	Water Requirement	: 7.13 KLD (Drinking: 0.9 KLD, Dust Suppression & Plantation: 6.23 KLD)	

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14	Water Source	: Through Water Tanker –nearby spring/Nala & Wells
15	DG Set / power	: Not Applicable
16	Crusher	: Not Applicable
17	Nearest Water Body	: Tripta Nadi at 4.58 Km in SW Baru Nadi at the distance of 4.45 km SW.
18	Nearest Habitation	: Khagachua village 0.58 km S direction from the mine site.
19	Nearest Rail Station	: Nalhati Railway Station 11.06 km ES direction from the mine site.
20	Nearest Air Port	: Birsa Munda Airport, Ranchi 215.45 km SW direction from the mine site.
21	Nearest Forest	: As per forest division. Letter no – 609 Dt-18-03-2020
22	Road & Highways	: Nalhati- Pakuria MDR at 3.35 Km in S direction NH 60 at 11.97 km ES direction from the mine site.

CO-ORDINATES

Latitude	Longitude
24 ^o 20'55.03" N	87 ^o 44'43.20" N
To	To
24 ^o 21'00.53" N	87 ^o 44'48.62" N

LAND DETAILS

The lease area is situated near Khagachua,

Khata No.	23
Plot No.	237, 240P, 245
Area in Acre	5.32 Acre / 2.15 Ha

STATUTORY CLEARANCES

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 1615/M dated 23.09.2019.
2	CO Certificate	: The CO, Pakuria (Pakur) vide letter no. 567, dated 30.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.
3	DMO Certificate	: DMO, Pakur vide memo no. 1872, dated 23.10.2019 certified that no other lease is exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1350, dated 11.07.2019 certified that the Udhwa Lake Bird Sanctuary is 68,070 m from project site and not within 10 km from National Park & Wildlife

		Sanctuary and proposed project is not situated in any ESZ.
5	DFO Territorial	: DFO, Pakur Division vide letter no. 609, dated 18.03.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.
6	DSR	: This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	: Letter no- 728 Dated- 31-08-2019
8	Mine Plan Approval	: Additional Director, Geology (Hazaribagh) Letter No.-756/G Dated- 09-11-2021

WORKING DETAILS

1	Mining Method	: Opencast Mechanized Mining	
2	Quarry Area	: 5 years-0.99 ha	Life of Mine – 1.46 ha
3	Waste Generation	: 5 years-6102 Tons	Life of Mine –6102 Tons
4	Stripping Ratio	: --	
5	Working Days	: 300 days/year	
6	Benches: size & No	: 6m x 6m	
7	Elevation of Mine	: In 78 MSL to 77 MSL	
8	Ground Level Elevation	: In 78 MSL	
9	Ultimate Working Depth	: In 36MSL	
10	Water Table	: In 26 MSL and also 8-10 m bgl	
11	Topography of Mine	: Gently sloping ²	
12	Explosive Requirement	: Yes- No. of holes: 5/day; Explosive: Slurry-45 Kg/Day	
13	Diesel/Fuel requirement	: Diesel required only for Mining machinery operation and Tippers/trucks for transportation.	

PRODUCTION DETAILS

Year	Production of stone		Removal of Gritty soil in	
	in Tonnes	in TCum	in Tonnes	in Cum
1st	62190	20730	2646	1764
2nd	62199	20733	3456	2304
3rd	62664	20888	0	000
4th	62028	20676	0	000
5th	92838	20946	0	000
Total	311919	103973	6102	4068

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LAND USE

SL	Pattern	Present Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Quarry Area	Nil	0.99	1.46	Water Body
2	Greenbelt within Safety Barrier	Nil	0.67	0.67	Plantation
3	Road	0.008	0.02	-	-
4	Proposed Crusher	Nil	0.02	-	-
5	Non Mining Area	Nil	0.02	0.02	Plantation
6	Dump	Nil	0.10	-	-
7	Parapet Wall	Nil	0.01	-	-
8	Garland Drain	Nil	0.01	-	-
9	Balance Area	2.142	0.31	-	-
	TOTAL	2.15	2.15	2.15	-

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.67 Ha	1725
2	Other Reclaimed Area	: 0.00	No
3	Haul /Approach Road	: 400 meter	150 Tree both side approach road.

▪ Gabion Plantation work in the approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

▪ Waste Generation will be 4068 Cu.M. during the life of Mine. Waste storage area is 0.10 ha. The waste shall be used for backfilling in the end of the mining operation.

Water Pollution Control Measures:

• Negligible impact envisaged on surface water and ground water due to mining as no discharge of effluent or intersection of ground water.

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- No major surface water body within 1 km radius of the project site.
- Garland drain & settling tank will be constructed around dump for arresting run-off, it will be integral part of rainwater harvesting system.
- Post-project the quarry area will serve as reservoir, which will be source of water for the nearby areas.

Air and Noise Pollution Control Measures:

- Water sprinkling shall be done on the haul roads.
- Plantation to be done in the safety zone develop a green belt along the ML boundary.
- Sharp drill will be used and wet drilling will be followed.
- Controlled blasting- Nonel technology will be used.
- Overloading will be prohibited while transporting. Water sprinkling will be taken up.
- Plantation along transportation route will be done.
- Regular monitoring of Air quality & PUC for vehicle will be carried out.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The road side plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles will be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission will be taken from competent authority.

This proposal was earlier considered in 88th meeting of SEAC held during 23-28.06.2021 in which PAs were asked to submit the following additional documents :

- i. As per CO Pakuria (Pakur) letter no. 657, dated 30-08-2019 it was observed that the Educational institute / School is located within 500m of the mine lease area. The committee was of the view that the blasting operation in the mine is likely to affect the safety of the institute due to flying rock. Hence, the Project authorities are required to give details of the institute / School located within 500m prepare a EMP a get to approved by competent Govt. Authority and School management.

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- ii. Project Authorities are required to obtain the Fresh CO certificate mentioning precise distance between nearest point of Educational institute / School.
- iii. As per the approved mine plan and also the presentation made by the Consultant M/s Overseas Min-Tech Consultants, Jaipur, the development section G-G' the mining activity goes up to level of 36m RL. During presentation it was also shown that the post monsoon water table is at 36m. RL. Also collar of the nearest tube well is at 38m RL. Hence, it is likely that the mining activity may intersect the ground water table. Therefore, the committee is of the view that fresh study should be conducted to ascertain the ground water table of the mining area.
- iv. Significant variations have been found in the land use data as mentioned in the approved mining plan and pre-Feasibility Report and the presentation. Hence, the project authorities are required to provide the correct figures in revised documents.
- v. Crusher is shown in approved mining plan but it is not mentioned in EC application. Hence, project authorities may include the same in the revised documents.

The PAs have submitted the above required documents and hence, it has been taken up for reconsideration on 22.02.2022. The consultant made a presentation for the same before the Committee.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Khagachua Stone Deposit for M/s S.E. Stone Works of Shri Ignesh Tudu at Vill – Khagachua, Thana – Pakuria, Dist – Pakur, Jharkhand (2.15 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

18. Enhancement of MS Billet production from 24000TPA to 148,500TPA through 3x15T Induction Furnaces (by replacing existing 1x8T Furnace with 1x15T & installing additional 2x15T Furnace along with CCM-2x2strand), Slag Crusher from 4200TPA to 33,000TPA capacity and production of 145,500TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25TPH Capacity by M/s Pavanputra Steel and Alloys at Plot No. 57/B, Barhi Industrial Area, Village : Konra, P.S. : Barhi, District : Hazaribagh, Jharkhand.

(Proposal No. : SIA/JH /IND/71704 /2022).

This is an expansion project which has been taken for appraisal on 22.02.2022.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

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M/s Pavanputra Steel and Alloys is an existing steel plant at Plot No. 57/B, Barhi Industrial Area, Village – Konra, P.S. – Barhi, District – Hazaribagh, Jharkhand.

Company started with production of 24000 TPA M.S. Ingot/Billet along with Slag Crusher of 4200TPA capacity after obtaining the Consent To Establish (CTE) vide letter No. JSPCB/HO/RNC/CTE-8893739/2021/8, dated 08.01.2021 and Consent to Operate (CTO) vide ref No. JSPCB/HO/RNC/CTO-10583363/2021/1001, dated 07.09.2021, valid for the period upto 30.06.2022.

The company now proposes for enhancement of MS Billet production from 24000TPA to 148,500TPA through 3x15T Induction Furnaces (by replacing existing 1x8T Furnace with 1x15T & installing additional 2x15T Furnaces along with CCM-2x2strand), Slag Crusher from 4200TPA to 33,000TPA capacity and production of 145,500TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25TPH Capacity at Plot No. 57/B, Barhi Industrial Area, Village: Konra, P.S.: Barhi, District: Hazaribagh, Jharkhand within the existing plant area of 2.25Ha (5.57Acres).

Configuration and Production Capacities of the existing & Proposed Units:

Sl. No	Plant Facilities	Existing Configuration	Proposed New Configuration	Final Production Capacity (TPA)
1	Induction Furnace For Billet	24,000 TPA (1x8T)	1,48,500 TPA (3x15 T)	MS Billets 148,500 TPA
	Continuous Casting Machine	2 x 2 strand (for 24,000 TPA)	2x2 strand, Rad 4/7 (for 1,48,500 TPA)	
2	Rolling Mill (Direct Hot Charging)		1,45,500 TPA (1x25TPH)	Roll Products (TMT Bars & Rolled Products/Rods etc.) 1,45,500 TPA
3	Slag Crusher	1x1.5TPH (max. 4200 TPA)	1x10TPH (max. 33000 TPA)	Crushed Slag 33000 TPA

Land Requirement & Location

The expansion project will be installed within the existing plant area of 2.25Ha (5.57 Acres) at Plot No. 57/B, Barhi Industrial Area, Village: Konra, P.S.: Barhi, District: Hazaribagh, Jharkhand. No additional land shall be required. Hazaribagh Wildlife Sanctuary ESZ is located at a distance of 8.0 Km from the project site.

Khata no. & Plot no. of the project:

Khata No.	23	44	56	73	67
Plot No.	146P,167P,168,169,170P,171P,154P	530P	158,159,160,162,161,163	164,165,166,151P,152P	172P

Latitude & Longitude

Latitude	24° 18' 19.25" N to 24° 18' 25.75" N
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Longitude	85° 25' 47.49" E to 85° 25' 56.44" E
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Raw Material Requirement

Raw Materials	Total Raw materials required After Expansion	Source
M.S. Billets (Total production: 148,500 TPA)		
Sponge Iron	118,800 TPA	Plant in Jharkhand. Through Road
Pig Iron	44,550 TPA	
Scrap	22,275 TPA	In-house & nearby Plants. Through Road
Ferro Alloys (SiMn/FeSi)	297 TPA	Plant in Jharkhand. Through Road
Total Raw Materials	185,922 TPA	
Rolling Mill – TMT Bars & Rolled Products (Total production: 145,500 TPA)		
Hot Billets/M.S. Billets	148,500 TPA	148,500 TPA, In-house – Hot Billets direct charging

Water requirement and its source

The total water requirement for proposed plant is estimated to be 190.0 m³/day. Water will be required for cooling, drinking, horticulture, etc. and the requirement will be met from ground water. Due permission shall be obtained from CGWA.

Power requirement

Presently the unit is having a connected load of 4.50 MVA. Total power requirement for the project after expansion is envisaged as 22 MVA, which will be met from DVC.

Manpower Requirement for the project

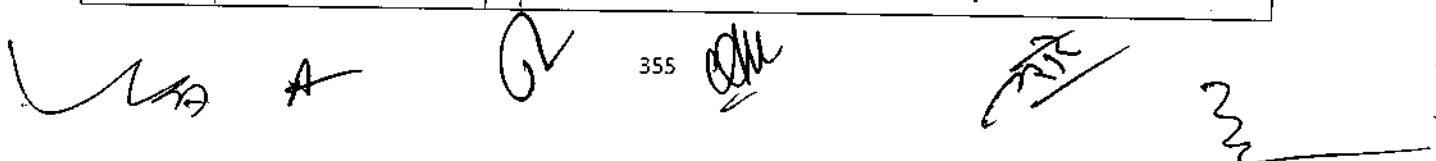
It is estimated that the total requirement of manpower after implementation of project is around 180 persons which will include Sr. Executives, Managers, Administrators, Engineers, Supervisors and Skilled Technicians.

Project Cost

The total estimated cost of the project after the proposed expansion will be Rs 4900 Lacs. (i.e. Existing - Rs. 1600.00 Lacs + Additional - Rs. 3300 Lacs). Cost of the existing facilities is Rs. 1600.00 Lacs.

STATUTORY CLEARANCES :

1.	CO	:	The CO, Barhi (Hazaribag) vide letter no. 594, dated 13.08.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
2.	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2187, dated


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		06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and However ESZ of Hazaribagh Wildlife Sanctuary is within 10 Km radius, but proposed project is not situated in any ESZ.
3.	DFO Forest Distance	: DFO, Hazaribagh West Division vide letter no. 4440 dated 21.12.2021 certified that the distance of the nearest Reserved Forest / Protected Forest from the project site is more than 250 m.

The baseline data generation is being done from December, 2021 to February, 2022.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure VI alongwith following project specific condition :

1. TCLP test report of the slag from existing plant to be provided in the EIA / EMP report.

19. Operation of current plant of capacity 415,000 TPA and proposed phase-wise expansion to 1.015,000 TPA capacity of Electrolytic Tinline and Tin-Free Steel material including 28,000 TPA Printed and Lacquered sheets of M/s The Tinline Company of India Limited at Golmuri Works, Jamshedpur, East Singhbhum, Jharkhand.

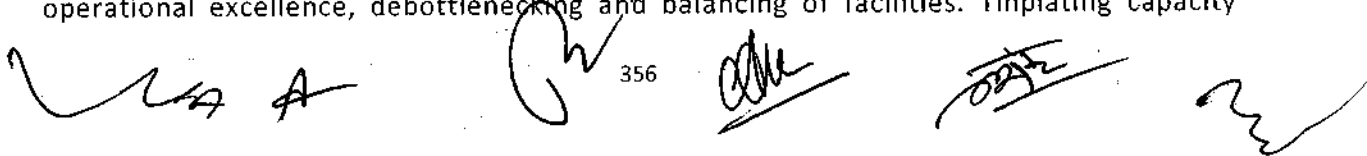
(Proposal No.- SIA/JH/IND/60643/2021)

This is an expansion project which has been taken for appraisal on 22.02.2022.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

M/s The Tinline Company of India Limited (TCIL) located at Golmuri, Jamshedpur installed an Electrolytic Tinning Line (ETL-1) coupled with a shearing line in the year 1979 to produce Tinline (TP) and Tin-free steel (TFS) with imported Tin Mill Black Plate (TMBP) coils. It continued to produce ETP and TFS in various coating weight, thickness and width. A captive upstream Cold Rolling Mill Complex (CRMC) was added by TCIL in its premises in 1996 to produce the TMBP coils as required for its ETL to do away with the import of costly TMBP coils as a cost saving measure.

The installed capacity of 90,000 TPA of ETL -1 was enhanced to 180,000 TPA through operational excellence, debottlenecking and balancing of facilities. Tinline capacity

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has been expanded to 380,000 TPA in 2008 through installation of 200,000 TPA ETL-2. For feeding TMBP subsequently in 2010-11, CRM complex was expanded to rated capacity of 380,000 TPA through installation of CRM-2 facilities. The capacity achieved was 355,784 TPA which is almost 94% of the rated production capacity of 380,000 Ton / year. The major reason for achieving the rated production capacity is by streamlining the flow of Raw material in the form of Hot Rolled coils from Tata Steel our parent company and focus on the equipment availability and performance rate. In view of the above and improvement in operational efficiencies & better product mix, the existing infrastructure and facilities is capable to produce around 415,000 TPA for which we have Consent to Operate.

There is a proposal for expansion by 300,000 TPA in Phase 1 & 300,000 TPA in Phase 2, (additional about 600,000 TPA capacity) . The total capacity post expansion would be 1,015,000 TPA of Electrolytic Tinsplate and Tin-Free Steel.

Executive Summary :

1.	Name of the Company	M/s The Tinsplate Company of India Limited.
2.	Address of the Registered Office	4, Bankshall Street, Kolkata, West Bengal - 700001.
3.	Address of Factory	Golmuri Works, Village: Golmuri, Jamshedpur, District: East Singhbhum Jharkhand - 831003.
4.	Present Business	Manufacturer of Electrolytic Tinsplate and Tin-Free Steel Sheets
5.	Area of the Plant	Total Plant area is 53.94 Ha inclusive of 8.50 Ha of land to be used forexpansion.
6.	Topo Sheet No	73 J/1
7.	Latitude	22° 47' 22.77" N - 22° 47' 50.57" N
8.	Longitude	86° 13' 33.09" E - 86° 14' 15.67" E
9.	Elevation	561 ft.
10.	Existing Production	Electrolytic Tinsplate and Tin Free Steel - 4,15,000 TPA including Lacquered sheets and Printed Sheets - 28,000 TPA
11.	Proposed Expansion	Electrolytic Tinsplate and Tin Free Steel - 6,00,000 TPA (Phase 1 : 300,000 TPA & Phase 2 : 300,000 TPA) Total Capacity :- Existing Production + Proposed expansion : 1,015,000 TPA
12.	Cost of the Project	Existing - Rs. 1408.78 Crores Estimated cost for Expansion - Rs. 1787 Crores (Net) for Phase 1 and Rs. 950 Crores (Net)

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		for proposed Phase 2 expansion. The total estimated cost is Rs.2737 Crores including 100 Crores for EMP. Cost (Existing + Expansion) – Rs. 4145.78 Crores
13.	Man Power Requirement	<p>Existing Manpower Existing Man Power (Direct) - 1380 persons. Existing Man Power (Indirect) - 800 persons.Total Existing Manpower – 2180</p> <p>Proposed Expansion (Estimated) Construction phase (Proposed expansion) Direct – 100, Indirect - 2300 Operation phase (Proposed expansion) Man Power (Direct) - 761 persons Man Power (Indirect) - 200 personsTotal Manpower – 961 (Inclusive of Phase 1 & 2)</p> <p>Total Manpower post expansion –3141</p>
14.	Power Requirement & DG Sets	<p>Power Requirement – Existing – 24 MVA Estimated for Expansion:55 MVA Total – 79 MVA DG Sets - Existing : 3.0 MVA DG Set for Expansion shall be at 415 V level for individual unitsFuel – HSD for D.G Sets</p> <p>Presently TCIL is receiving power from Tata Steel at 33 kV level from Golmuri Sub- Station through buried cables. Present power requirement at TCIL is approx. 24 MVA which is fed through both feeders from Golmuri Sub Station. In case of outage of one of the feeders, the remaining feeder feeds the total power requirement. Considering the additional power demand of around 55 MVA, the power distribution scheme has been planned in accordance.</p>
15.	Water Requirement	<p>Existing Makeup Water – 6600 KLD from JUSCO Estimated for Expansion – 5400 KLD (Inclusive of Phase 1 & 2)</p> <p>Total Water Requirement post expansion-12000 KLD</p>
		<p>Domestic Waste Water (Sewage) About 96 KLD Sewage is generated in the Existing Plant. This sewage is sent to Bara STP. After</p>

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16.	Waste Water Generation	<p>Expansion about 142 KLD Sewage will be generated in the Plant. It will also be sent to Bara STP.</p> <p>Industrial Effluent after expansion From ETL Total Wastewater Generation will be 5880 KLD. From CRM Total Wastewater Generation will be 2160 KLD. From Boiler Wastewater Generation will be 120 KLD. From Water Treatment Plant & Other Generation will be 132 KLD.</p> <p>Total Industrial effluent generation after expansion will be 8292 KLD. Currently the waste water is treated in Effluent Treatment Plant and part of the treated water is recycled into the system and balance is discharged as per norms. It is proposed to treat the entire water in ETP with RO System and the treated Water will be recycled within the process (ZLD).</p>
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Solid Waste Generation and Disposal

Non Hazardous Solid Waste (TPA)

Sr. No.	Type of Waste	Source	Existing	Proposed expansion	Total	Utilization
1	Red Oxide (by product of ARP)	ARP	1826	2640	4466	Sold to Competent Party
2	Steel Scrap	CRM & ETL	52416	75782	128198	Sold to Competent Party
3	Tin sludge and dross	ETL	30	42	72	To be sold out
4	Fly ash	AFBC boiler	19857	0	19857	Handed over to Fly ash Brick Manufacturers
5	Bottom Ash	AFBC boiler	2920	4867	7787	Partly used in boiler bed and remaining part is handed over

						to Brick Manufacturers
6	CRM Sludge	CRM WWTP	3180	4597	7777	Dumped in designated yard within the plant

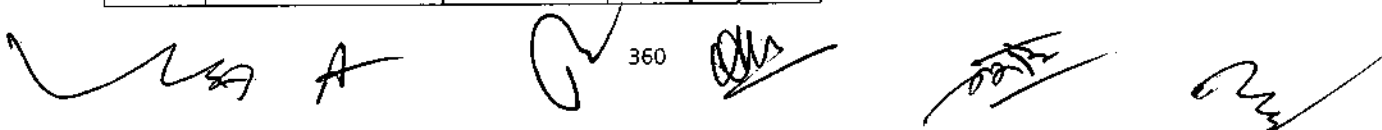
Hazardous Solid Waste(Annual generation)

Sr. No.	Type of Waste	Source	Existing	Proposed expansion	Total	Utilization
1.	Waste Emulsion Oil	Plants & CRM WWTPs	500 MT	600 MT	1110 MT	Disposal to authorized vendor.
2.	ETL Sludge	ETL ETP	753MT	1088MT	1841 MT	Disposal through CHWTSDf (M/s Adityapur Waste Management Pvt. Ltd.)
3.	Waste Pickle Liquor (WPL)	Pickling unit	18000 KL	20000 KL	38000 KL	Regenerated at ARP and Reused in Pickling
4.	Process residue	Solution Centre	12 MT	-	12 MT	Disposal to authorized vendor
5.	Alkali residue	CRM plant	4380 KL	6332 KL	10712KL	Treatment at CRM WWTPs

Land use (Area) break-up :

The Plant area is 53.94 Ha and within the land around 8.50 Ha of the land will to be used for expansion. Further Plan is in place and area identified for extending Green Coverage by 4.75 Ha post expansion of Phase 2. Proposal for developing Water body post Phase 2 expansion is also in place.

Sr. No.	Particular	Existing land utilization (Ha.)	Land utilization post expansion (Ha.)


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1.	Plant area	19.95	28.45
2.	Green belt	15	18.1
3.	Water body	0.6	0.6
4.	Open area	18.39	6.79
	Total	53.94	53.94

Khata no. & Plot no. of the project :

SN	Ward No	Khata No	Plot No	Area in Hect
1	12	61	4208 (P)	22.151
2	12	61	4209	0.842
3	12	61	4211 (P)	0.025
4	12	61	4212 (P)	0.001
5	12	61	4213	0.258
6	12	61	4336	0.115
7	12	61	4338	0.052
8	12	61	4339	0.075
9	12	61	4340	0.049
10	12	61	4341	0.014
11	12	61	4342	0.01
12	12	61	4343	0.015
13	12	61	4344	0.01
14	12	61	4345	0.013
15	12	61	4346	0.01
16	12	61	4347	0.013
17	12	61	4348	0.01
18	12	61	4349	0.013
19	12	61	4350	0.01
20	12	61	4351	0.013
21	12	61	4352	0.01
22	12	61	4353	0.012
23	12	61	4354	0.01
24	12	61	4355	0.012
25	12	61	4356	0.01
26	12	61	4357	0.012
27	12	61	4358	0.012
28	12	61	4359	0.012
29	12	61	4360	0.114
30	12	61	4361	0.068
31	12	61	4362	0.013
32	12	61	4363	0.017
33	12	61	4364	0.002

34	12	61	4365	0.018
35	12	61	4366	0.03
36	12	61	4367	0.02
37	12	61	4368	0.006
38	12	61	4369	0.017
39	12	61	4370	0.006
40	12	61	4371	0.015
41	12	61	4372	0.005
42	12	61	4373	0.015
43	12	61	4374	0.007
44	12	61	4375	0.017
45	12	61	4376	0.005
46	12	61	4377	0.017
47	12	61	4378	0.005
48	12	61	4379	0.017
49	12	61	4380	0.007
50	12	61	4381	0.017
51	12	61	4382	0.006
52	12	61	4383	0.015
53	12	61	4384	0.005
54	12	61	4385	0.017
55	12	61	4386	0.088
56	12	61	4387	0.048
57	12	61	4388	0.075
58	12	61	4389	0.072
59	12	61	4390 (P)	0.26
60	12	61	4391	0.05
61	12	61	4392	0.133
62	12	61	4393	0.014
63	12	61	4394	0.014
64	12	61	4395	0.1
65	12	61	4396	0.047
66	12	61	4397	0.006
67	12	61	4398	0.049
68	12	61	4399	0.006
69	12	61	4400	0.049
70	12	61	4401	0.006
71	12	61	4402	0.046
72	12	61	4403	0.018
73	12	61	4404	0.058
74	12	61	4405	0.38
75	12	61	4406	0.123
76	12	61	4407	2.579
77	12	61	4408 (P)	1.817
78	12	61	4414	0.118
79	12	61	4415	0.12
80	12	61	4416	0.094
81	12	61	4417	0.012

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82	12	61	4418	0.06
83	12	61	4419	0.012
84	12	61	4420	0.056
85	12	61	4421	0.012
86	12	61	4422	0.056
87	12	61	4423	0.012
88	12	61	4424	0.116
89	12	61	4425	0.061
90	12	61	4426	0.009
91	12	61	4427	0.065
92	12	61	4428	0.011
93	12	61	4429	0.063
94	12	61	4430	0.011
95	12	61	4431	0.092
96	12	61	4432	0.01
97	12	61	4433	0.044
98	12	61	4434	0.085
99	12	61	4435	0.01
100	12	61	4436	0.056
101	12	61	4437	0.01
102	12	61	4438	0.056
103	12	61	4439	0.011
104	12	61	4440	0.058
105	12	61	4441	0.011
106	12	61	4442	0.056
107	12	61	4443	0.128
108	12	61	4444	0.006
109	12	61	4445	0.09
110	12	61	4446	0.012
111	12	61	4447	0.06
112	12	61	4448	0.011
113	12	61	4449	0.06
114	12	61	4450	0.011
115	12	61	4451	0.059
116	12	61	4452	0.011
117	12	61	4453	0.06
118	12	61	4454	0.152
119	12	61	4455	0.14
120	12	61	4456	0.071
121	12	61	4457	0.223
122	12	61	4458	0.043
123	12	61	4459	0.013
124	12	61	4460	0.27
125	12	61	4461	1.842
126	12	61	4462	0.096
127	12	61	4463	0.065
128	12	61	4464	0.042
129	12	61	4465	0.057

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130	12	61	4466	0.09
131	12	61	4467	0.104
132	12	61	4468 (P)	0.232
133	12	61	4469 (P)	0.138
134	12	61	4474	0.018
135	12	61	4730 (P)	9.34
136	12	61	4731 (P)	0.216
137	12	61	4732 (P)	0.013
138	12	61	4733	0.004
139	12	61	4734	0.106
140	12	61	4735	0.013
141	12	61	4738	0.52
142	12	61	4739	0.057
143	12	61	4767	0.23
144	12	61	5243	0.482
145	12	61	6210 (P)	0.893
146	12	61	6233 (P)	0.17
147	12	61	6234	0.044
148	12	61	6235	0.005
149	12	61	6236	0.044
150	12	61	6237	0.005
151	12	61	6238	0.044
152	12	61	6239	0.005
153	12	61	6240	0.044
154	12	61	6241	0.11
155	12	61	6242	0.057
156	12	61	6243	0.005
157	12	61	6244	0.044
158	12	61	6245	0.004
159	12	61	6246	0.045
160	12	61	6247	0.173
161	12	61	6248	0.009
162	12	61	6249	0.197
163	12	61	6250	0.046
164	12	61	6251	0.005
165	12	61	6252	0.046
166	12	61	6253	0.004
167	12	61	6254	0.046
168	12	61	6255	0.081
169	12	61	6256	0.062
170	12	61	6257	0.005
171	12	61	6258	0.041
172	12	61	6259	0.099
173	12	61	6260	0.069
174	12	61	6261	0.322
175	12	61	6262	1.35
176	12	61	6263	0.162
177	12	61	6264	0.069

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178	12	61	6265	0.127
179	12	61	6266	0.112
180	12	61	6267	0.246
181	12	61	6268	0.118
182	12	61	6269	0.047
183	12	61	6270	0.009
184	12	61	6271	0.036
185	12	61	6272	0.008
186	12	61	6273	0.063
187	12	61	6274	0.009
188	12	61	6275	0.064
189	12	61	6276	0.009
190	12	61	6277	0.113
191	12	61	6278	0.01
192	12	61	6279	0.056
193	12	61	6280	0.011
194	12	61	6281	0.092
195	12	61	6282	0.01
196	12	61	6283	0.047
197	12	61	6284	0.052
198	12	61	6285	0.109
199	12	61	6286	0.093
200	12	61	6287	0.01
201	12	61	6288	0.097
202	12	61	6289	0.01
203	12	61	6290	0.061
204	12	61	6291	0.011
205	12	61	6292	0.063
206	12	61	6293	0.117
207	12	61	6294	0.063
208	12	61	6295	0.014
209	12	61	6296	0.067
210	12	61	6297	0.014
211	12	61	6298	0.095
212	12	61	6299	0.014
213	12	61	6300	0.098
214	12	61	6301	0.109
215	12	61	6304 (P)	0.267
216	12	61	6305	0.005
217	12	61	6306	0.018
218	12	61	6307	0.104
219	12	61	6308	0.014
220	12	61	6309	0.015
221	12	61	6310	0.01
222	12	61	6311	0.015
223	12	61	6312	0.03
224	12	61	6313	0.015
225	12	61	6314 (P)	0.078

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STATUTORY CLEARANCES

1	DC, Jamshedpur	: In absence of non availability of Khatiyani / Revenue record DC, Jamshedpur has given a certificate vide memo no. 270/TL, dated 30.07.2021 that if any part of land belongs to forest land / jangal jhari in future the project proponent is bound to follow the direction of Forest (Conservation) Act, 1980. This certificate was based on the directives of Revenue, Registration and Land Reforms Deptt., Govt. of Jharkhand issued vide letter no. 05/संभू० लातेहार (विविध)-181/2018(छाया संचिका)4792/रा०रांची, दिनांक 04.12.2018.
2	DFO Wild Life	: DFO, Dalma Elephant Project vide letter no. 1977, dated 20.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	DFO Forest Distance	: DFO, Jamshedpur Forest Division vide letter no. 3231 dated 11.12.2021 certified that the distance from the nearest Reserved Forest / Protected Forest from the project site is more than 250 m.

After detailed presentation the committee observed that the following details are essential before grant of ToR :

- I. Compliance of the conditions of CTO granted by JSPCB is to be provided.
- II. Plant layout to be revised clearly indicating the existing green belt, green cover and the proposed green belt after expansion.
- III. The configuration of the different units of the plant (existing & proposed) to be provided.
- IV. Details of existing pollution control system and the proposed pollution control systems after expansion to be provided.
- V. Rain Water Harvesting details in the existing plant alongwith any changes proposed after expansion.
- VI. Usage and disposal of outlet from the ETP, alongwith MoU, if applicable, to be provided.
- VII. Laboratory test reports of the existing plant from NABL / MoEF&CC accredited laboratories.
- VIII. Proposal for phasing out of usage of coal in the existing plant to be provided.

On submission of the above, the project will be taken up for reconsideration.

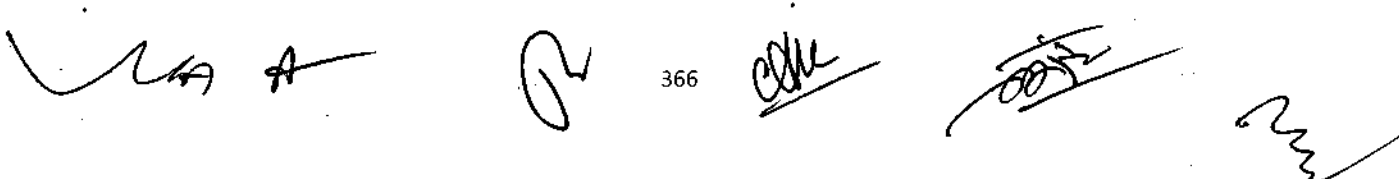
20. Dungri-Puttia Sand Mining Lease of M/s Tata Steel Limited (Prop. Mr. Chavala Divaker), Village : Dungri-Puttia, Tehsil : Jhariya & Putki, Dist. : Dhanbad, Jharkhand (24.127 Ha).

(Proposal No. : SIA/JH/MIN/59908 /2021).

Project Category: B1 – Application for TOR

Name of the consultant :Crystal Consultants

This is a new project listed for appraisal on 22.02.2022.

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In absence of updated DSR as per the Enforcement and Monitoring Guidelines for Sand Mining, 2020 of MoEF&CC the project is not considered for appraisal.

21. Proposed Bokaro Cement Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 million TPA & DG set of 1000 KVA (2x500 KVA) of M/s Dalmia Cement (Bharat) Limited (DCBL), Village : Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase 4 Bokaro, Jharkhand.

(Proposal No. : SIA/JH/IND/256997/2022).

Name of the consultant : AMPL Environ (Private) Ltd., Hyderabad

This is a new project which has been taken for appraisal on 22.02.2022

M/s. Dalmia Cement (Bharat) Limited is proposing Bokaro Cement Manufacturing Works - A standalone Grinding Unit with Cement Production Capacity of 2.0 Million TPA (MTPA) and D.G. Set of 1000 KVA (2 x 500 KVA) at Plot No. IV/A-7(P)4, Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

Salient Features of the Project

S. No.	PARTICULARS	DETAILS	
A.	Nature of the Project	A Standalone Grinding Unit	
B.	Size of the Project	Units	Proposed Capacity
		Cement (MTPA)	2.0
		D.G. Set (KVA)	2 x 500
C.	Location Details		
	Village	Gorabali, Notified Bokaro Industrial Area under JIADA, Phase-4, Thana- Jaridih	
	Tehsil	Chas	
	District	Bokaro	
	State	Jharkhand	
	Latitude	23°41'52.2813"N to 23°41'42.0659"N	
	Longitude	086°03'57.9296"E to 086°03'46.3512" E	
	SOI Toposheet No.	Project Site: F45C2 Study Area: F45C2, F45C1 & F45B14	
D.	Area Details		
	Total Project Area	Plant area- 15.75 Acres (6.374 ha)	
	Greenbelt area	5.2 Acres (33% of total land area)	
E.	Environmental Setting Details (with approximate aerial distance & direction from proposed project site)		
F.	Nearest Village	Village Gorabali (0.5km in SW)	

S. No.	PARTICULARS	DETAILS
1.	Nearest Town	Phusro (9.8 km in North-West direction)
2.	Nearest City	Bokaro (9.9 km in South-East direction)
3.	Nearest National Highway / State Highway	<ul style="list-style-type: none"> o NH - 320 (earlier NH-23) 4 km in South direction o NH - 18 (15 km in South-East direction)
4.	Nearest Railway station	<ul style="list-style-type: none"> o Bokaro Steel City Railway Station (4.4 km in SSE direction) o Tupkadih Railway Station (1.4 km in North direction)
5.	Nearest Airport	Ranchi Airport (100 km in South-West direction)
6.	National Parks, Wildlife Sanctuaries, Biosphere Reserves, Reserve Forest (RF) / Protected Forest (PF) within 10 km radius.	<p>No National Park, Wildlife Sanctuary, Biosphere Reserve, Reserve Forest (RF) falls within 10 km radius of the project site. However, few patches of PF and open jungle exist within study area. These are</p> <ol style="list-style-type: none"> 1. Dakbera Open Jungle- 3.5km W 2. Barwapani Fairly dense jungle- 7.5kmW 3. PF in North Direction – 6.3 km 4. Chiubera PF -4.7km NE
7.	Water Bodies (within 10 km radius)	<ol style="list-style-type: none"> 1. Damodar River (5.15 km in NE direction) 2. Garga Dam (6.4 km in South direction) 3. Khanjo Nadi (5.5 km in West direction)
8.	Archaeological Sites	No Archaeological Sites Within 10 km radius
9.	Seismic Zone	The project site lies in Zone - III of Seismic Zoning Map of India, Bureau of Indian Standards.
H.	Cost Details	
1.	Total Cost of the Project	Rs. 576 Crores
2.	Cost for Environment Management Plan	<ul style="list-style-type: none"> o Capital Cost - Rs. 31.6 Crores o Recurring Cost - Rs. 1.1 Crores
I.	Basic Requirements for the project	
	Water Requirement	150 KLD Source: Application for sourcing of water

S. No.	PARTICULARS	DETAILS
		has been filed with JIADA . Rain water harvesting plan will be adopted to reduce fresh water demand.
	Power Requirement	12 MW Source: An application has been filed to DVC for securing power and D.G. Set has been proposed for emergency back-up. Roof Top Solar Panels will also be installed within plant premises.
Manpower Requirement (Persons)		
Construction/Implementation phase (no.)		64
Operation phase (no.)		
Regular		39
Contractual		250
Total		289
Total (no.)		353
Locals will be given preference in employment as per their eligibility.		

Khata no. & Plot no. of the Project :

Khata No. : 134,76,177,46,45,171,47,145,78,65,135,72 **Khesra No. :** 892, 781(P), 777, 784(P), 779(P), 778(P), 782(P), 783(P), 887(P), 890, 888(P), 880(P), 852(P), 891, 960(P), 850(P), 893(P), 851(P), 858(P), 871, 957(P), 870(P), 958, 884, 885, 886, 776(P), 883, 882, 875, 862, 876, 881, 879, 878, 874, 863, 866, 873, 864, 868(P), 861, 867(P), 865.

The details of composition required for the cement manufacturing have been envisaged as below:

S. No.	Component	Proportion by weight (%)
		PSC
1.	Clinker	33
2.	Gypsum	2
3.	Slag	Upto 65

Capacities and sizing of major equipment's proposed

S. No.	Particulars	Unit	Capacity
1.	Truck Tippler & Box Feeder	TPH	2 x 300
2.	Wagon Tippler	TPH	1800

3.	Stacker Reclaimer	TPH	1800 / 300
4.	Slag unloading	TPH	200
5.	Startup HAG	Mkcal/hr	25
6.	Cement Mill (VRM) – Max.	MTPA	2.5
7.	Packer	TPH	2 x 240
8.	Truck & Wagon Loaders	TPH	12 x 120

Proposed Storage Capacities

S. No.	Materials	Storage Capacity (Tonnes)
1.	Clinker	1 x 50,000
2.	Gypsum	1 x 5000
3.	Slag	1 x 25000
4.	Cement	2 x 5000
5.	LSHS/HSD	1x30 KL
6.	Coal	1 x 4500

Raw Material Requirement

S. No.	Raw material				
		Quantity (MTPA)	Source	Mode of Transportation	Distance (Kms.)
1.	Clinker	0.66	Unit of DCBL at Rajgangpur, Odisha	Rail (100%)	323
2.	Gypsum	0.04	Paradip, Odisha	Rail (100%)	500
3.	Slag	1.30	RSP/TATA STEEL/BSL	Rail (100%)	287

Transportation of Materials

S. No.	Materials detail	Rail (Quantity in MTPA)	Road (Quantity in MTPA)
A	Raw Materials / Material (Inward)*		
1.	Clinker	0.66	-
2.	Slag	1.30	-
3.	Coal	-	0.03
4.	Gypsum	0.04	-
	Sub Total	2.0	0.03
B	Product (Outward)		
1.	Cement (PSC)	1.67	0.33

Total	3.67	0.36
% of Total Material Handling	91%	9%

STATUTORY CLEARANCES

1	CO	:	The CO, Chas (Bokaro) vide letter no. 2436, dated 29.11.2021 has mentioned the plot no. of the project is recorded as "Kadim / Dhan / Parti Jadid" in Khatiyani.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2058, dated 28.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	DFO Forest Distance	:	DFO, Bokaro Forest Division vide letter no. 3546 dated 21.12.2021 certified that the distance of Reserved Forest / Protected Forest from the project site is more than 250 m.

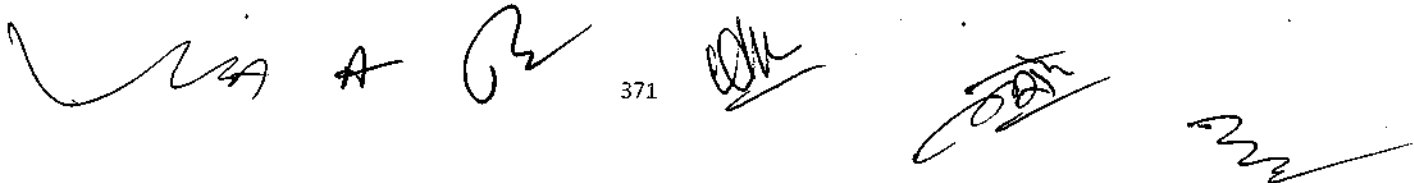
During the presentation the following documents were sought :

- I. Details of green belt and green cover to be provided on site plan.
- II. Revised rain water harvesting proposal to be provided.
- III. MoU for use of railway siding of the existing plant adjacent to the proposed plant.
- IV. Details of pollution control devices to be installed.
- V. MoU for purchase of slag & clinker by railway.
- VI. Details of product transported by railway to be provided.

The PAs have submitted the above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Bokaro Cement Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 million TPA & DG set of 1000 KVA (2x500 KVA) of M/s Dalmia Cement (Bharat) Limited (DCBL), Village : Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase 4 Bokaro, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – VII alongwith the following specific conditions :

- I. 100% transportation of raw material by rail and 70% product by rail must be ensured.
- II. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- III. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- IV. All raw material to be stored only under covered shed.
- V. PAs to ensure ZERO DISCHARGE for its process discharges.



- VI. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VII. The environmental clearance is subject to the permission for supply of water from a competent authority.
- VIII. The baseline data & Modeling for the month of March, 2022 is to be collected by the consultant AMPL Environ Pvt. Ltd., Hyderabad and submitted to SEIAA / SEAC within April, 2022.

Day 6 : February 23, 2022 [Wednesday]

Consideration of Proposals

- 1. Proposed expansion of existing SMS of M/s Radhagopal Ispat LLP, Village : Konra, Barhi Industrial Area, Tehsil : Barhi, Dist. : Hazaribagh, Jharkhand.**

(Proposal No. : SIA/JH/IND/66453 /2021).

Name of the consultant : AMPL Environ (Private) Ltd., Hyderabad

This is a expansion project which has been taken for appraisal on 23.02.2022.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 3 (b) Secondary Metallurgical Industry as per EIA Notification, 2006.

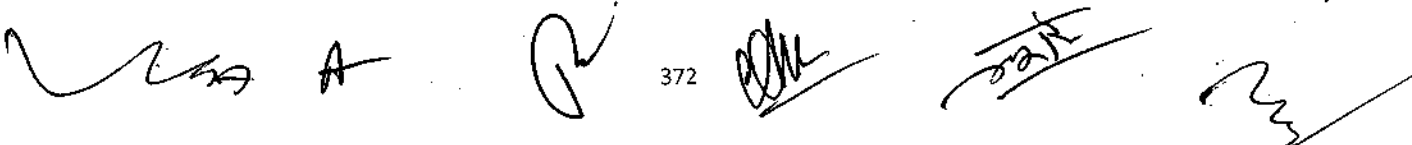
Project background :

The proponent is M/S RADHAGOPAL ISPAT LLP at Village-Konra, Brahi Industrial Area, Hazaribagh district of Jharkhand state. RADHAGOPAL ISPAT LLP presently owns a steel melting shop of benchmark capacity 27000 TPA adopting Induction Furnace based ingots/billet manufacturing plant at Notified Brahi Industrial area, Konra village, Barhi Hazaribagh district of Jharkhand state. RGILLP is now contemplating expansion of steel melting shop with matching Concast facilities consisting 1x8T existing Induction Furnace + 2x15T purposed Induction furnace for manufacturing of ingots/billets of capacity 91200 (TPA) .

This project will be with an aim to manufacture MS Billets/Ingots of capacity 91,200 TPA (including existing facilities). The target production will be achieved in small steps over the next two years. The required water, power and workforce are all available from nearby area. The industrial land is already in possession of unit and hence infrastructure is constructed, so that operation will commence promptly. This site area is of medium dimension, has a connecting road and has approachability. This site is connected with Damodar Valley Corporation.

The estimated cost for the expansion of existing plant will be Rs. 18.0 Crores.

Latitude & Longitude :

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Latitude	Longitude
24° 18' 25.57" N	85° 50' 13.72" E
24° 18' 20.13" N	86° 50' 9.48" E
24° 18' 19.18" N	86° 50' 15.26" E
24° 18' 22.49" N	86° 50' 17.89" E

Details of Khata no. & Plot no. of the project site :

Khata No. : 19,42,23,7678,53,52,26,39

Plot No. : 676P,677P,678P,679P,680P,681P,682P,683P,808P,809,810

Project details :

This unit is in the field of manufacturing of MS Ingot/Billets and MS-Bar now the existing scenario and proposed project details are as follows :

S. No.	Details	Existing	Proposed	Total
1	Production Capacity TPA MS Ingot/billets	27,000	64,200	91,200
2	Area m ²	25,400	0	25,400
3	Induction Furnace	1x8T	2x15T	38 T
4	Stack	32m height Top Dia 0.8m Bottom Dia 1.52m	-	1 no.
5	Fuel for furnace	Electric Power	Electric Power	Electric Power
6	Power(MVA)	4	10	14
7	D.G Set (KVA)	240	400	640
8	Water Requirement(KLD)	10 KLD	30KLD	40 KLD
9	Investment Cr.	9	18	27

Product and by product :

S. No.	Product	Capacity(TPA)		
		Existing	Additional	Total(TPA)
1	MS Billet/Ingot	27000	64,200	91,200
2	Slag	6000	24400	30400

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Raw material details:

Sl. No.	Name	Quantity Existing (TPA)	Quantity additional (TPA)	Quantity Total (TPA)	Source & Distance	Transportation
1	Sponge Iron	10,240	38,400	48,640	Ramgarh	Road
2	Iron Scrap	5120	19,200	24,320	Ramgarh	Road
3	1 mm sponge +Recovered Metal	6830	25,612	32,442	Rourkela	Road
4	Steel scrap	3410	12,788	16,198	Jamshedpur	Road
	Total	25,600	96,000	121,600		

Site analysis :

Barhi is a census town and headquarters of a subdivision in the Barhi CD block in the Barhi subdivision of the Hazaribagh district in the state of Jharkhand, India. It stands at the crossing of NH 19 (old number NH 2)/ Grand Trunk Road. All major buses on the Ranchi-Patna, Ranchi-Gaya, Dhanbad-Patna and Dhanbad-Gaya routes pass through Barhi.

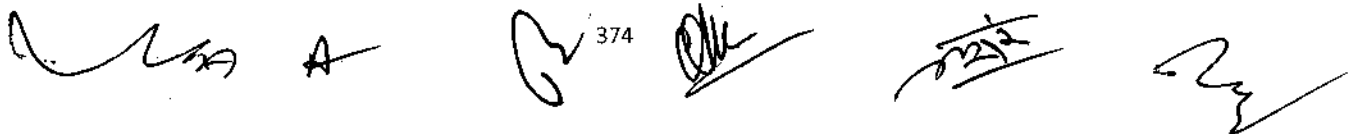
Wastewater treatment and disposal :

Waste water will be generated due to water softener/RO plant. All water will be used within the premises for wetting road, dust suppression, & spraying.

Sanitary waste water is/will be treated in septic tank followed by sub-surface dispersion trench.

STATUTORY CLEARANCES :

1	CO	:	The CO, Barhi (Hazaribag) vide letter no. 482, dated 10.07.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1103, dated 06.07.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

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3	DFO Forest Distance	:	DFO, Hazaribagh West Division vide letter no. 2845, Dated 11.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
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Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure VI alongwith the following specific conditions :

- i. Certified compliance report of existing CTO from JSPCB.
 - ii. Permission for drawal of water from CGWA.
 - iii. Permission for supply of Electric to be provided.
 - iv. Usage of storm water to be provided.
 - v. MoU for supply of slag after recovery of metal.
 - vi. TCLP test report for the slag of the existing plant from NABL accridited laboratory to be provided.
 - vii. One season baseline data to be generated.
2. Modification cum Expansion of existing Re-Rolling Mill of M/s Saluja Steel & Power (P) Ltd., Mouza : Mohanpur, P.S. : Mahtohdih, Dist. : Giridih, Jharkhand.

(Proposal No. : SIA/JH/IND/66215 /2018).

The PAs vide email dated 23.02.2022 has requested for deferment of the proposal. Hence, the proposal will be taken up for consideration after request of PAs.

3. Residential Complex "Samriddhi Park" of M/s Ilika Estates Private Limited (Prop: Sri Akash Adukia), at Village : Arra, Arra Gate, Tehsil : Namkum, Dist : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/72415/2022).

This is a case of violation which has been taken for appraisal on 23.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

EC Application for: Built-up area of 43807.44 sq m.

Name of the consultant:P & M SOLUTION, Noida

PROJECT and LOCATION Details:

Parameters	Description
Plot Area	19476.76 m ²
Location	Village Arra, Thana Tatisilway, Arra Gate, Namkum Ranchi, Jharkhand
Project Cost	INR 58 Crores
Built-up Area	43807.44 m ²
Green Area	4040.60 m ² (@20.75% of plot area)
Population	2211 Nos.
Water Requirement	129 KLD
Fresh Water Requirement	73 KLD
Wastewater Generation	90 KLD
STP Capacity	120 KLD
Total Municipal Waste	611 kg/day
Power Requirement	1400 KVA (Jharkhand State Electricity board)
DG Sets	320 KVA (2 numbers)
RWH Pits	3 Nos.
Parking	353
Connecting road	SH 1 (0.2 km, N)
National Highway& Roads	<ul style="list-style-type: none"> • SH 1 (0.2 km, N).
Nearst Railway Station	<ul style="list-style-type: none"> • Ranchi Junction (7.0 km, West)
Airport	Birsa Munda Airport 9.8 km, SW)
Nearest Hospitals	<ul style="list-style-type: none"> • Shree super specialty hospital(1.29 km, NW) • RC Mission Middle School (0.1 km, W) • Rajkiya Hansraj Wadhwa High School (1.9 km, NW) • St Katherine High School (0.6 km, S) • Sarala Birla Public School (1.3 km, NE) • Military Hospital (2.4 km, W) • Dwarika Hospital & Research Centre (3.5 km, E)

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CO-ORDINATES

Coordinates	23.350893°N	85.402074°E
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LAND DETAILS

Khata no.	Plot no.
58	1608
8	1823
66	1825

Area Summary :

Land Area	19,476.76 sq.m
Width of Abutting Road	8.50 m (avg.)
Permissible Ground Coverage	50 % of the Plot Area = 9,738.38 sq.m
Permissible F.A.R.	2.5
Proposed Ground Coverage	5,753.47 sq.m (29.54% of Land Area)
Proposed F.A.R.	1.98
Proposed Total Built Up Area	43,807.44 sq.m
Proposed No. of Building	7 (Residential = 6, Club & Community = 1)
Proposed Building Inventory	Block 1A (Residential)= G + 7 storied (24.0m from G.L.) Block 1B (Residential) = G + 7 storied (24.0m from G.L.) Block 3 2 (Residential) = G + 7 storied (24.0m from G.L.) Block 3 (Residential) = G + 8 storied (27.0m from G.L.) Block 4A (Residential) = G + 8 storied (27.0m from G.L.) Block 4B (Residential) = G + 8 storied (27.0m from G.L.) Club & Community Block = Ground storied
Proposed Nos. of Flat	344 Nos. (2BHK = 81 Nos, 3BHK = 263 Nos.)
Proposed Nos. of Car Parking	353 Nos. (Covered = 158 nos., Open = 195 nos.)

Proposed Landuse Distribution:

Development Component	Area & Percentage	
	Area (sq.m)	% of Land Area
Ground Coverage	5,753.47	29.54
Services & Utilities*	754.69	3.87
Internal Road Area (Paved)	3,874.87	19.89
Semi-paved surface incl. open car parking	3,848.66	19.76
Landscape Green Area	4,040.60	20.75
Swimming Pool	264.54	1.36
Soft Area	674.90	3.47
Area for Road Widening	265.03	1.36
TOTAL	19,476.76	100.00

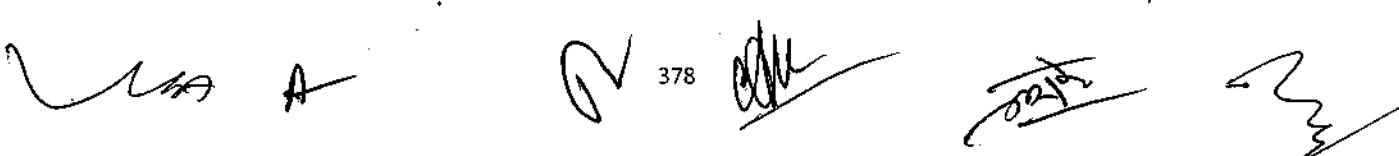
STATUTORY CLEARANCES

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 515, dated 09.02.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide letter no. 92, dated 10.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Namkum, Ranchi vide letter no. 862, dated 11.08.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 111520/ 510320 date 27.11.2020.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 91/tech/2021 dated 07.01.2021

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement- KLD	Fresh Water Requirement- KLD	Recycled Water requirement- KLD
Domestic					
Residents	1983	50	100	70	30
Staff	30	45	1.35	0.85	0.5
Visitors	198	30	2.97	1.97	1.0
Total Domestic Water Demand			104	73	31
Landscape	4040.6 sq m	5 l/day	20.2	0	20.2
DG cooling	2*320 KVA	0.9l/KVA/day	5	0	5
Total			129	73	56

Category	Total Quantity (KLD)
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Fresh water Req.	73
Flushing water Req.	31
Sewage generation (@80% of the fresh water consumption + 100% flushing water)	90
Capacity of STP	120
Recovered water from STP	81
1. Flushing	31
2. Landscaping	20.2
3. DG cooling	5
4. Car Washing/Road Washing/Sewer	24

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	To be Disposed (Kg/day)	Recyclable (kg/day)
1.	Residents	1983	0.3	594.9	415.9	179
2.	Staff	30	0.2	6.0	4.2	1.8
3.	Visitors	198	0.05	9.9	6.7	3.2
Total Waste Generated				610.8	426.8	184

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 4040.60 m² (@20.75% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

❖ Collection, Segregation and treatment of waste

- Door to door collection system will be provided for collection of domestic waste
- Local vendors will be hired for waste collection, management and disposal
- Separate colored bins for compostable (wet waste), recyclables and rejected waste will be provided to residents as well as in common and open areas
- Wet waste will be composted within the site in Organic Waste Convertor

❖ Disposal

- Rejected fraction of the waste will be collected and disposed by local agencies on daily basis at the locations designated by Nagar Parishad. Recyclable waste and E-waste will be sold to authorized vendors
- Used oil from DG sets will be sold to authorized vendors

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Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e.120 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Flushing, landscaping and road washing.
- Use of water efficient plumbing fixtures to conserve water.
- Approx.73 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

solar street lights will be provided at site.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

4. Residential Apartment Project "SG Exotica" of Sri Subhash Kumar & Sri Gautam Modi, Village : Lalpur, Thana no. : 02, Tehsil : Ranchi Sahar, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/72418/2022).



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This is a case of violation which has been taken for appraisal on 23.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

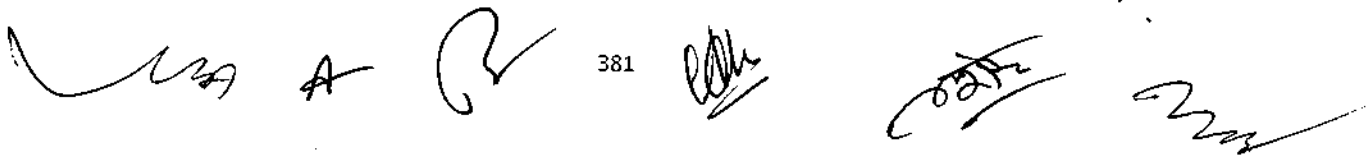
Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

EC Application for: Built-up area of 35486.81 sq m.

Name of the consultant: P & M SOLUTION, Noida

PROJECT and LOCATION Details:

Parameters	Description
Plot Area	10840 m ²
Location	VILLAGE & THANA LALPUR, HAZARIBAGH ROAD RANCHI, Jharkhand
Project Cost	INR 50 Crores
Built-up Area	35486.81 m ²
Green Area	1606 sq m (15 % of plot area)
Population	430 Nos.
Water Requirement	29 KLD
Fresh Water Requirement	1 4KLD
Wastewater Generation	20 KLD
STP Capacity	50 KLD
Total Municipal Waste	205 kg/day
Power Requirement	600 KVA (Jharkhand State Electricity board)
DG Sets	500 KVA
RWH Pits	3 Nos.
Parking	78
Connecting road	Hazaribagh Road (30 m, S).
National Highway& Roads	<ul style="list-style-type: none"> Hazaribagh Road (30 m, S).
Nearest Railway Station	<ul style="list-style-type: none"> Ranchi Junction (2.9 km, S)
Airport	Birsa Munda Airport 7.0 km, S)



Nearest Hospitals	<ul style="list-style-type: none"> • S St Thomas School (0.4 km, NW) • Little Pearls School (0.5 km, W) • Tulip Kids School (0.5 km, SE) • KC Roy Memorial hospital (0.6 km, S) • POC Hospital (1.2 km, NW)
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CO-ORDINATES

Coordinates	23.374355°N	85.341860°E
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LAND DETAILS

Khatā no.	Plot no.
02	1372, 146

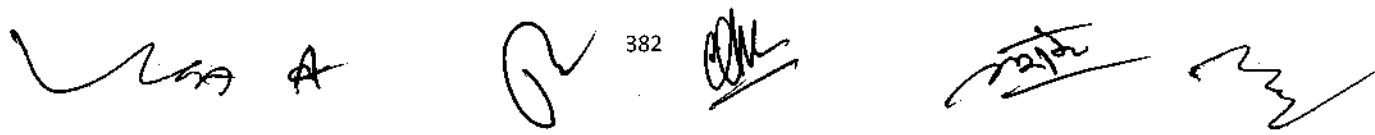
Area Summary

S. No.	Description	Area (sq m)
1.	Plot Area	10,840.15
2.	Road Widening	129.68
3.	Net Plot Area	10,710.47
4.	Ground Coverage (23.40%)	2507.25
5.	FAR (@2.496)	27060
6.	Non FAR	8426.18
7.	Built-up Area	35486.81
8.	Green Area (@10% of net plotarea)	1071
9.	No of Dwelling Units	78
10.	Height	87.4 m

STATUTORY CLEARANCES

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 511, dated 18.02.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 147, dated 21.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Shahar, Ranchi vide letter no. 154, dated 22.02.2022 has mentioned the plot no. of the project is not recorded as "Jangle

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		Jhari" in R.S. Khatiyar.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 030720/451470 date 27.04.2020.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 2213/tech/2020 dated 16.10.2020

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement- KLD	Fresh Water Requirement- KLD	Recycled Water requirement- KLD
Domestic					
Residents	390	50	20	14	7
Staff	20	45	1	0.5	0.5
Visitors	20	15	0.3	0.2	0.1
Total Domestic Water Demand			22	14	8
Landscape	1071 sq m	3 l/day	3	0	3
DG cooling	500 KVA	0.9 l/KVA/day	4	0	4
Total			29	14	15

Category	Total Quantity (KLD)
Fresh water Req.	14
Flushing water Req.	8
Sewage generation (@80% of the fresh water consumption + 100% flushing water)	20
Capacity of STP	50

Recovered water from STP (90% of Waste water)	18
1. Flushing	8
2. Landscaping	3
3. Dg cooling	4
4. Road washing	3

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Non-Recyclable (Kg/day)	Recyclable (kg/day)
1.	Residents	390	0.5	195	137	58
2.	Staff	20	0.25	5	3.5	1.5
3.	Visitors	20	0.15	3	2.5	0.5
4.	Landscape waste	0.26 acres	0.2	0.05	0	0.05
Total Waste Generated				203	143	160
7.	STP sludge	50 KLD	--	2	2	0

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1606 m² (@15% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

❖ Collection, Segregation and treatment of waste

- Door to door collection system will be provided for collection of domestic waste
- Local vendors will be hired for waste collection, management and disposal
- Separate colored bins for compostable (wet waste), recyclables and rejected waste will be provided to residents as well as in common and open areas
- Wet waste will be composted within the site in Organic Waste Convertor

❖ Disposal

- Rejected fraction of the waste will be collected and disposed by local agencies on daily basis at the locations designated by Nagar Parishad. Recyclable waste and E-waste will be sold to authorized vendors

- d. Used oil from DG sets will be sold to authorized vendors

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e.50 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Flushing, landscaping and road washing
- Use of water efficient plumbing fixtures to conserve water.
- Approx.29 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

solar street lights will be provided at site.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

5. **Integrated Municipal Solid Waste Management Facility for Bundu Nagar Panchayat, Village : Bundu, Tehsil : Bundu, Dist. : Ranchi, Jharkhand.**

(Proposal No. : SIA/JH/MIS/58082/2020).

Name of the consultant : Not declared.

This is a new project which was listed for consideration on 18.02.2022. The PAs vide letter dated 18.02.2022 requested the Secretary, SEAC for deferment of the consideration of the proposal to any other date between 19th to 23rd February, 2022. Further during personal appearance stated that their consultant M/s Wolkem India Limited, Udaipur, Rajasthan is unable to take up their project and hence desired to make presentation for ToR on their own capacity. They were allowed to present their case before the committee on 23.02.2022.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 7 (i) Common Municipal Solid Waste Management Facilities as per EIA Notification, 2006.

Salient Features of the project :

S.No	Information	Details
1.	Project Name & Address	Municipal Solid Waste Management Scheme for Bundu Nagar Panchayat at Village : Bundu, Thana No. : 28, Tehsil : Bundu, District : Ranchi, Jharkhand.
2.	Khata no. & Plot no.	Khata no. : 1143, Plot no. : 5532, 5543, 5538, 5539
3.	Facility Area	Total Area – 3.57 Acre Capacity of Processing Facility : 15 TPD Sanitary Landfill Capacity (20 Years) – 4851 Sqm
4.	Name of the Client	Bundu Nagar Panchayat
5.	Water Requirement and its Sources	Total Water Requirement = 52.16 KLD Fresh Water Requirement = 10 KLD Recycled Treated Waste Water = 42.16 KLD Source :- PHED Supply
6.	Power Supply and its source	100 KVA and source from Jharkhand State Electricity Board, JBVNL
7.	Project Cost	614.30 Lacs
8.	EMP cost	Capital cost : 41 Lakh, Recurring cost : 9.5 Lakh
9.	Nearest Railway Station	Ranchi Railway Station 35.7 Km NW.



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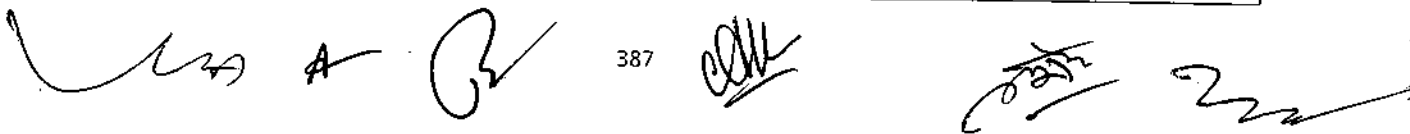
10.	Nearest SH/NH	NH-33 National Highway, 0.70 Km in SW direction.
11.	Nearest Airport	Birsa Munda Airport, Ranchi 34.60 Km in NW direction.

Latitude & Longitude of the project :

S No	Latitude	Longitude
1	23° 8'59.16"N	85°36'29.91"E
2	23° 8'58.48"N	85°36'31.65"E
3	23° 8'57.35"N	85°36'31.52"E
4	23° 8'57.26"N	85°36'31.75"E
5	23° 8'55.95"N	85°36'31.64"E
6	23° 8'55.31"N	85°36'31.37"E
7	23° 8'55.47"N	85°36'30.28"E
8	23° 8'55.35"N	85°36'30.16"E
9	23° 8'55.48"N	85°36'29.76"E
10	23° 8'55.15"N	85°36'29.66"E
11	23° 8'55.01"N	85°36'29.97"E
12	23° 8'53.77"N	85°36'29.92"E
13	23° 8'53.79"N	85°36'29.63"E
14	23° 8'53.54"N	85°36'29.52"E
15	23° 8'53.58"N	85°36'29.19"E
16	23° 8'53.07"N	85°36'29.01"E
17	23° 8'53.03"N	85°36'28.76"E
18	23° 8'52.76"N	85°36'28.73"E
19	23° 8'52.10"N	85°36'28.35"E
20	23° 8'52.18"N	85°36'27.69"E
21	23° 8'52.05"N	85°36'27.53"E
22	23° 8'52.17"N	85°36'27.31"E
23	23° 8'52.35"N	85°36'27.28"E
24	23° 8'52.46"N	85°36'26.96"E
25	23° 8'54.35"N	85°36'27.50"E
26	23° 8'54.44"N	85°36'27.10"E
27	23° 8'56.09"N	85°36'28.00"E
28	23° 8'56.29"N	85°36'28.39"E
29	23° 8'56.69"N	85°36'28.50"E
30	23° 8'56.63"N	85°36'28.86"E

STATUTORY CLEARANCES :

1	CO	:	The CO, Bundu, (Ranchi) vide letter no. 17, dated 09.01.2020 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register
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			II.
2	DFO Wild Life	:	DFO, Wildlife Ranchi vide memo no. 55, dated 15.01.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	DFO Forest Distance	:	DFO, Khunti Division vide letter no. 2875, Dated 25.10.2019 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.

During the presentation the following shortcoming were observed:

- I. Contour Plan of project site not provided.
- II. Site specific photographs.
- III. Soil map & soil characteristic data not provided.
- IV. Seismic map of project site not provided.
- V. Site selection criteria to follow CPHEEO manual and certified by competent authority.
- VI. Overlay map of all site selection criteria.
- VII. The quality & quantity of the sludge from ETP and its usage / disposal to be provided.
- VIII. Input & output analysis of heavy & toxic metals (including mercury) to be provided alongwith proposal for handling of the toxic components.
- IX. Calculation of the life of landfill site to be provided.

On the submission of above required details & documents, the project will be taken up for reconsideration.

6. Rambani Stone Mine of M/s S.P. Stone Works, Mouza : Rambani, Block & P.S. : Gopikandar, P.O. : Dharampur, Dist. : Dumka, Jharkhand (1.97 Ha).

(Proposal No. : SIA/JH/MIN/235796 /2021).

Project Category: B2 – Application

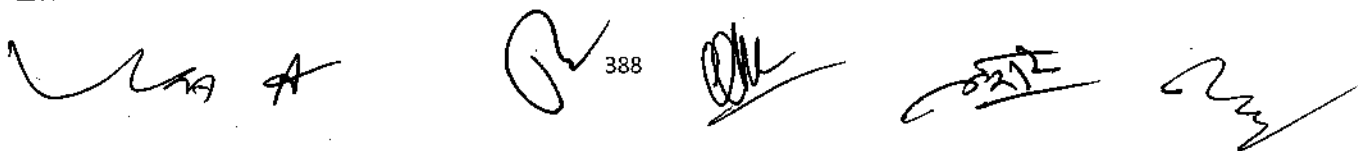
EC Application for: Boulder Stone : 53,890.08 Cu.M. / year i.e. 1,45,503.22 TPA
DG Set : 20 KVA

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 23.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	Rambani Stone Mine Project Type – Stone Mine
2	Lessee:	Shri Purushottam Sharan Prashant

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3	Lease Address	:	Mouza – Rambani, P.O. - Dharampur, Block & P.S. - Gopikandar, Dist. – Dumka, State – Jharkhand.
4	Lease Area	:	Ha: 1.97 ha Acres: 4.87 Acres
	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	Capital Cost – 68.03 Lakhs
7	EMP Budget	:	Capital: 14.478 Lakhs Recurring: 02.09 Lakhs
8	CSR / CER Budget	:	2.25 Lakhs
9	New or Expansion	:	New Project
10	Mineable Reserves	:	Cu.M.: 2,69,443.56 Cu. M. Tonnes: 7,27,497.69 Tonnes
11	Mine Life	:	5.03 years
12	Man power	:	21
13	Water Requirement	:	19.29 KLD (Drinking:0.315 KLD, Dust Suppression: 8.80KLD, Plantation:10.17 KLD
14	Water Source	:	Water will be Sourced from Pond at a distance of 2.00 Km through Water Tanker for Dust Suppression and Plantation. Water will be sourced from Bore Well within the lease area for Drinking and Domestic Consumption.
15	DG Set / power	:	20 KVA DG Set proposed
16	Crusher	:	NA
17	Nearest Water Body	:	Bansloi River 6.20 KM
18	Nearest Habitation	:	Rambani Village: 1.08 Km, Dumka 38KM
19	Nearest Rail Station	:	Dumka Railway station – 33 km – SW
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Durgapur – 96.90 km – SW
21	Nearest Forest	:	Protected Forest - 0.90 Km
22	Road & Highways	:	SH 18 (Dumka - Sahibganj Road) – 1.70 Km – NW ,

CO-ORDINATES

Sl.No.	Latitude	Longitude
1	24°27' 01.47" N	87°31' 59.85" E
2	24°27' 03.21" N	87°31' 55.03" E
3	24°27' 03.10" N	87°31' 52.24" E
4	24°27' 03.57" N	87°31' 51.97" E
5	24°27' 04.29" N	87°31' 52.08" E
6	24°27' 04.59" N	87°31' 51.76" E
7	24°27' 05.33" N	87°31' 52.07" E
8	24°27' 05.28" N	87°31' 53.52" E
9	24°27' 04.91" N	87°31' 56.79" E
10	24°27' 05.57" N	87°31' 59.96" E
11	24°27' 04.91" N	87°31' 58.53" E
12	24°27' 04.24" N	87°32' 01.33" E
13	24°27' 03.15" N	87°32' 01.09" E

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14	24°27' 02.71" N	87°32' 00.88" E
15	24°27' 02.26" N	87°32' 00.51" E
16	24°27' 02.17" N	87°32' 00.00" E

LAND DETAILS

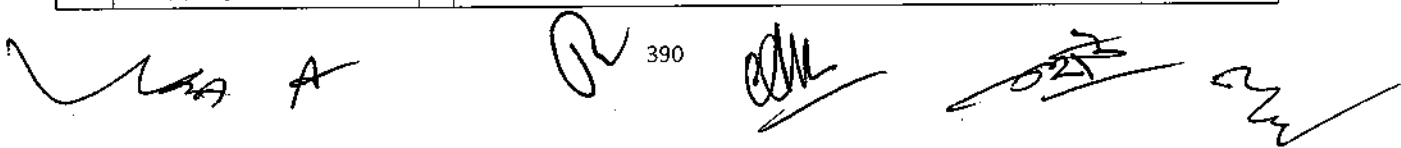
Mouza	Khata No.	Plot No.
Rambani	27	85 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, vide letter no. 212/M dated 08.02.2021
2	CO	: The CO, Gopikandar vide letter no. 300, dated 18.08.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	: DMO, Dumka vide memo no. 254/M, dated 12.02.2021 certified that no lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife, Hazaribagh vide letter no. 393, dated 27.02.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Dumka Division vide letter no. 1665, dated 18.08.2020 certified that the distance of notified forest is more than 250 metre from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Dumka vide letter no. 683/ M, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 12.08.2020
8	Mine Plan Approval	: Letter No. 112/DDM dated 28.05.2021

Working Details

1	Mining Method	: Semi Mechanised. Wagon Drilling & Blasting to be used
2	Quarry Area	: 5 years – 1.45 Ha End of Mine – 1.45 Ha
3	Waste Generation	: 5 years– 10,800 Cu.M Life of Mine (Waste Gen.) – 10,800 Cu.M
4	Stripping Ratio	: 1:0.02


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5	Working Days	:	300
6	Benches: size & No	:	5 m x more than 5 , Bench No.- 1 to 6
7	Elevation of Mine	:	Maximum Elevation – 213AMSL Minimum Elevation – 198 AMSL
8	Ground Level Elevation	:	198 AMSL
9	Ultimate Working Depth	:	178 AMSL
10	Water Table	:	153 AMSL (45 m bgl)
11	Topography of Mine	:	Undulating Terrain
12	Explosive Requirement	:	18 Tons/year
13	Diesel/Fuel requirement	:	330 KL/year (99 Litres/day)

Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cubic meters	
1st Year	53,124.00	1,43,434.80	4,590	160-149
2nd Year	53,352.00	1,44,050.40	6,210	155-143
3rd Year	53,580.00	1,44,666.00	0	149-137
4th Year	53,808.00	1,45,281.60	0	143-131
5th Year	53,890.08	1,45,503.22	0	137-125
Total	2,67,754.08	7,22,936.02	10,800	Depth – 35 m

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	0.00
Road	0.006
Total area in use	0.00
Balance area unused	1.964
Total Leasehold area	1.97

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry	1.45
Road	0.003
Green Belt / Safety Zone/ Garland Drain	0.517
Total area in use	1.97

Total Leasehold area	1.97
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Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Quarry	Water Body - 1.45 (To be converted into Water Body after reducing the depth partially)
Road	0.003 (Plantation)
Green Belt / Safety Zone/ Garland Drain	0.517 (Plantation)
Total area in use	1.97
Total Leasehold area	1.97

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.52 ha	1300 trees @ 2500 trees per ha
2	Haul/Approach Road	: 1.10 KM	734 trees on both sides – 3 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Waste Generation

- A total of **10,800 Tons** of wastes (Over Burden) will be generated from entire Rambani Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

▪ **Table 3.7: Generation of Waste during Planned Period**

Year	Waste Generation, In Cum
1 st Year	4,590
2 nd Year	6,210
3 rd Year	0

Year	Waste Generation, In Cum
4 th Year	0
5 th Year	0
Total	10,800

Source: Mining Plan

Disposal of Waste from the Quarry

There is only 10800 cum overburden will be generated in mining plan period which will be used in maintenance of mine road and village road, so there is no requirement of waste dumping Plan for this mining plan.

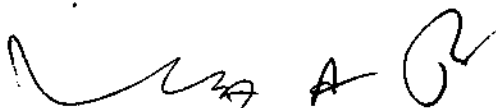
Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

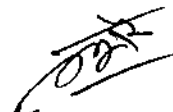
- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:



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- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Rambani Stone Mine of M/s S.P. Stone Works, Mouza : Rambani, Block & P.S. : Gopikandar, P.O. : Dharampur, Dist. : Dumka, Jharkhand (1.97 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Gilamari Stone Deposit of M/s Alok Stone (Prop. : Shri Alok Ranjan), Village : Gilamari, P.S. : Mirzachauki, Dist. : Sahebganj, Jharkhand (2.83 Ha).

(Proposal No. : SIA/JH/MIN/252895 /2022).

Project Category: B2 – Application

EC Application for: Boulder Stone : 50,096 Cu.M. / year i.e. 1,35,259 TPA

DG Set : 25 KVA

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 23.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Gilamari Stone Deposit Project Type – Stone Mine
2	Lessee:	: Proprietor – Shri Alok Ranjan
3	Lease Address	: Mouza – Gilamari, P.S. - Mirzachauki, Dist. – Sahebganj, State – Jharkhand.
4	Lease Area	: Ha: 2.83 ha Acres: 7.00 Acres





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	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	Capital Cost – 74.80 Lakhs
7	EMP Budget	:	Capital: 14.98 Lakhs Recurring: 02.24 Lakhs
8	CSR / CER Budget	:	2.25 Lakhs
9	New or Expansion	:	New Project
10	Mineable Reserves	:	Cu.M.: 8,85,350 Cu. M. Tonnes: 23,90,445 Tonnes
11	Mine Life	:	17 Years approx
12	Man power	:	22
13	Water Requirement	:	13.36 KLD (Drinking:0.33 KLD, Dust Suppression: 3.28 KLD, Plantation: 9.75 KLD)
14	Water Source	:	<ul style="list-style-type: none"> • Water will be sourced from Abandoned Mine through Water Tanker for Dust Suppression and Plantation. • Water will be sourced from Bore Well within the lease area for Drinking and Domestic Consumption.
15	DG Set / power	:	25 KVA DG Set proposed
16	Crusher	:	NA
17	Nearest Water Body	:	Ganga River 13.50 KM
18	Nearest Habitation	:	Gilamari Village: 0.60 Km, Sahebganj 12.80 KM
19	Nearest Rail Station	:	Sahibganj Railway station – 11.80 km - NE
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Durgapur –180 km - SW
21	Nearest Forest	:	Protected Forest – 1.20 Km
22	Road & Highways	:	Bhagaiya Main Road – 4.20 Km – West N.H. 33- 4.50 Km - West

CO-ORDINATES

Point No.	Latitude	Longitude
1	25° 13' 32.63" N	87° 31' 03.09" E
2	25° 13' 32.46" N	87° 31' 06.48" E
3	25° 13' 31.31" N	87° 31' 08.40" E
4	25° 13' 29.48" N	87° 31' 08.09" E
5	25° 13' 27.75" N	87° 31' 08.47" E
6	25° 13' 26.68" N	87° 31' 07.95" E
7	25° 13' 25.81" N	87° 31' 08.05" E
8	25° 13' 26.56" N	87° 31' 03.27" E
9	25° 13' 28.31" N	87° 31' 03.47" E
10	25° 13' 30.19" N	87° 31' 01.94" E

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LAND DETAILS

Mouza	Khata No.	Plot No.
Gilamari	55	431 (P)
	59	432 (P)
	14	433 (P)

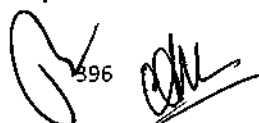
STATUTORY CLEARANCES

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj, vide letter no. 885 /M dated 06.07.2019
2	CO	: The CO, Mandro vide memo no. 844, dated 05.09.2019 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	: DMO, Sahebganj vide memo no. 492 /M, dated 18.04.2019 certified that no lease area exists within 500 m radius from proposed project site & Total lease area is less than 3 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1787 , dated 30.08.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Sahibganj Division vide memo no. 1586, dated 21.08.2018 certified that the distance of notified forest is 255 metre from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Sahebganj vide letter no. 1154/ M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 05.07.2018
8	Mine Plan Approval	: Letter No. 327/DDM dated 13.08.2019

Working Details

1	Mining Method	: Semi Mechanised. Wagon Drilling & Blasting to be used
2	Quarry Area	: 5 years – 2.16 Ha End of Mine – 2.16 Ha
3	Waste Generation	: 5 years– 34,516 Cu.M Life of Mine (Waste Gen.) – 34,516 Cu.M
4	Stripping Ratio	: 1:0.05
5	Working Days	: 300
6	Bench: size & No	: 6 m x more than 6 m, Bench No.- 1 to 11









7	Elevation of Mine	:	Maximum Elevation – 242 AMSL Minimum Elevation – 224 AMSL
8	Ground Level Elevation	:	224 AMSL
9	Ultimate Working Depth	:	174 AMSL
10	Water Table	:	116 AMSL (108 m bgl)
11	Topography of Mine	:	Steep Slope
12	Explosive Requirement	:	20.7 Tons/year
13	Diesel/Fuel requirement	:	418 KL/year (125.40 Litres/day)

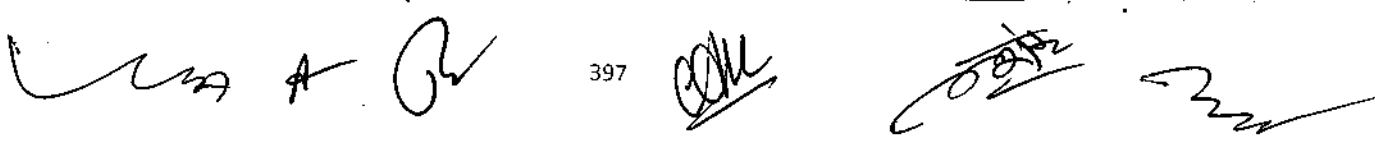
Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cubic meters	
1st Year	50,040.00	1,35,108.00	34,516	A – A' : 184 - 182 (O.B.) B – B' : 186 – 184 (O.B.) A – A' : 182 – 176 (Stone) A – A' : 176 – 170 (Stone) B – B' : 184 – 178 (Stone) B – B' : 178 – 172 (Stone)
2nd Year	50,024.00	1,35,065.00	Nil	B – B' : 178 – 172 (Stone) B – B' : 172 – 166 (Stone)
3rd Year	50,000.00	1,35,000.00	Nil	A – A' : 170 – 164 (Stone) B – B' : 172 – 166 (Stone)
4th Year	50,024.00	1,35,065.00	Nil	B – B' : 172 - 166 (Stone) B – B' : 166 – 160 (Stone)
5th Year	50,096.00	1,35,259.00	Nil	B – B' : 166 - 160 (Stone) A – A' : 164 - 158 (Stone)
Total	2,50,184.00	6,75,497.00	34,516	Depth – 26 m

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	Nil
Crusher	Nil
Road	Nil
Safety Barrier	Nil
Total area in use	Nil



Balance unused area	2.83
Total Applied Lease Area	2.83

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Ha.
Quarry	2.16
Road	0.04
Waste Dump / Rest Shed	0.05
Garland Drain with Settling Tank	0.03
Safety Zone	0.55
Total area in use	2.83

Land Use Pattern after Life of the Mine:

Land Use Pattern after Life of the Mine.

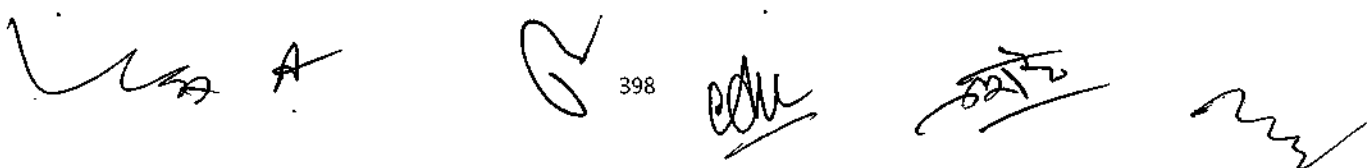
Category	Area in Ha.
Quarry	2.16 (To be Converted into Water Body after reducing the depth partially)
Waste Dump / Rest Shed + Road + Garland Drain with Settling Tank	0.12 (Plantation)
Safety Zone	0.55 (Plantation)
Total area in use	2.83

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.55 ha	1,375 trees @ 2500 trees per ha
2	Other Reclaimed area	: 0.12 Ha.	300 trees @2500 trees per Ha.
3	Haul /Approach Road	: 0.41 KM	274 trees on both sides – 3 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment &


 A series of handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, a signature with the number '398' below it, and several other scribbled signatures on the right.

Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Waste Generation

A total of 34,516 cum of wastes (Over Burden) will be generated from entire Gilamari Stone Deposit up to conceptual stage. Year-wise waste generation during the planned period is given below:

Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	34,516
2 nd Year	Nil
3 rd Year	Nil
4 th Year	Nil
5 th Year	Nil
Total	34,516

Source: Mining Plan

Disposal of Waste from the Quarry

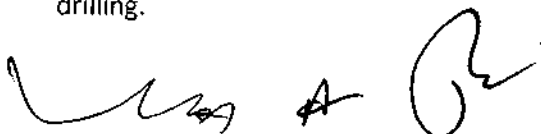
There is only 34,516 cum overburden will be generated in mining plan period which will be used for backfilling and maintenance of mine road and village road.

Water Quality Management

- Mining is planned to be above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any, shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in the garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any, shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.



- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

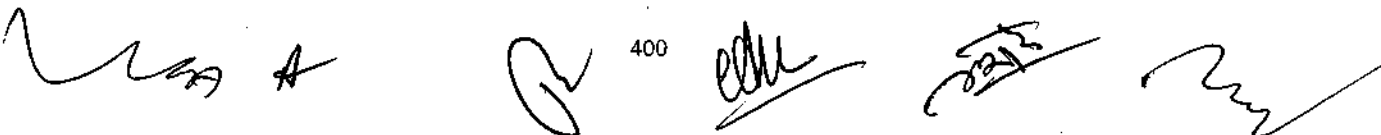
Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Gilamari Stone Deposit of M/s Alok Stone (Prop. : Shri Alok Ranjan), Village : Gilamari, P.S. : Mirzachauki, Dist. : Sahebganj, Jharkhand (2.83 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – 1.

8. Stone Mine of M/s Alok Stone (Prop. : Shri Alok Ranjan), Mouza : Partemako, Anchal : Borio, Dist. : Sahebganj, Jharkhand (2.83 Ha).

(Proposal No. : SIA/JH /MIN/251950 /2022).

Project Category: B2 – Application

EC Application for: Boulder Stone : 55,333.33 Cu.M. / year i.e. 1,49,400 TPA

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DG Set : 20 KVA

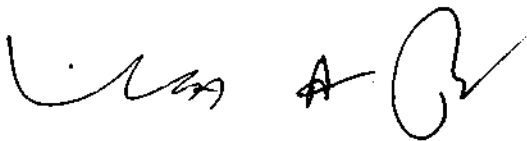
Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 23.02.2022.

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: M/s Alok Stone, Project Type – Stone Mine
2	Lessee:	: Proprietor – Shri Alok Ranjan
3	Lease Address	: Mouza – Partemako, Anchal - Borio, Dist. – Sahebganj, State – Jharkhand.
4	Lease Area	: Ha: 2.83 ha Acres: 7.00 Acres
	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Capital Cost – 77.85 Lakhs
7	EMP Budget	: Capital: 15.7455 Lakhs Recurring: 02.09 Lakhs
8	CSR / CER Budget	: 2.20 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 7,61,501 Cu. M. Tonnes: 20,56,052.70 Tonnes
11	Mine Life	: 13.76 Years
12	Man power	: 15
13	Water Requirement	: 22 KLD (Drinking:0.23 KLD, Dust Suppression: 7.35 KLD, Plantation:22 KLD)
14	Water Source	: <ul style="list-style-type: none">• Water will be sourced from Abandoned Mine through Water Tanker for Dust Suppression and Plantation.• Water will be sourced from Bore Well within the lease area for Drinking and Domestic Consumption.
15	DG Set / power	: 20 KVA DG Set proposed
16	Crusher	: NA
17	Nearest Water Body	: Ganga River 7.50 KM
18	Nearest Habitation	: Partemako Village: 0.19 Km, Sahebganj 7.65 KM
19	Nearest Rail Station	: Sahebganj Railway station – 8.50 km - NW
20	Nearest Air Port	: Kazi Nazrul Islam Airport, Durgapur –180 km – SW
21	Nearest Forest	: Protected Forest – 2.60 Km
22	Road & Highways	: SH -18 – 2.60 Km - West

CO-ORDINATES









Point No.	Latitude	Longitude
1	25° 11' 10.29" N	87° 41' 38.56" E
2	25° 11' 12.59" N	87° 41' 36.83" E
3	25° 11' 14.55" N	87° 41' 40.36" E
4	25° 11' 14.01" N	87° 41' 41.76" E
5	25° 11' 14.96" N	87° 41' 43.50" E
6	25° 11' 11.99" N	87° 41' 46.97" E
7	25° 11' 10.79" N	87° 41' 45.99" E

LAND DETAILS

Mouza	Khata No.	Plot No.
Partemako	05	86 (P)
	22	39 (P)
	28	87 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj, vide letter no. 951 /M dated 20.09.2021 .
2	CO	:	The CO, Borio vide letter no. 77, dated 17.02.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Sahebganj vide memo no. 117 /M, dated 06.02.2020 certified that no lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1981 , dated 20.11.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Sahebganj Division vide letter no. 260, dated 01.02.2020 certified that the distance of reserved / protected forest is more than 250 metre from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Sahebganj vide letter no. 1156/ M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 25.01.2020
8	Mine Plan Approval	:	Letter No. 1041 dated 18.10.2021

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Working Details

1	Mining Method	:	Semi Mechanised. Wagon Drilling & Blasting to be used	
2	Quarry Area	:	5 years – 1.74 Ha	End of Mine – 1.89 Ha
3	Waste Generation	:	5 years– 17,697 Cu.M	Life of Mine (Waste Gen.) – 17,697 Cu.M
4	Stripping Ratio	:	1:0.02	
5	Working Days	:	300	
6	Benches: size & No	:	6 m x more than 6 m, Bench No.- 1 to 5 (Plan period)	
7	Elevation of Mine	:	Maximum Elevation – 281 AMSL Minimum Elevation – 236 AMSL	
8	Ground Level Elevation	:	236 AMSL	
9	Ultimate Working Depth	:	221 AMSL	
10	Water Table	:	212 AMSL (24 m bgl)	
11	Topography of Mine	:	Steep Slope	
12	Explosive Requirement	:	62.1 Tons/year	
13	Diesel/Fuel requirement	:	366 KL/year (109.8 Litres/day)	

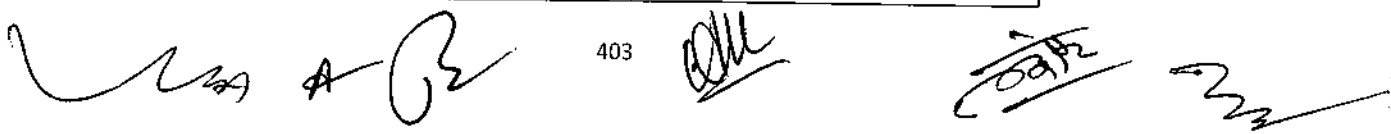
Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters	
	Cubic meters	Tons	Cubic meters		
1st Year	55,333.33	1,49,400.00	7,610.00	A – B : 225 - 219 (1 st Bench) A – B : 219 – 213 (2 nd Bench) A – B : 213 – 207 (3 rd Bench)	
2nd Year				3,400.00	A – B : 213 – 207 (3 rd Bench) A – B : 207 - 201 (4 th Bench)
3rd Year				3,535.00	A – B : 207 - 201 (4 th Bench)
4th Year			0	A – B : 201 - 195 (5 th Bench)	
5th Year			3,152.00	A – B : 201 - 195 (5 th Bench)	
Total	2,76,666.65	7,47,000.00	17,697.00	Depth – 30 m	

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	Nil



Road (Haul Road + Approach Road)	0.04
Safety Barrier	Nil
Total area in use	0.04
Balance unused area	2.79
Total Applied Lease Area	2.83

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Ha.
Quarry	1.74
Road (Haul Road + Approach Road)	0.04
Infrastructure	0.02
O. B. Dump	0.35
Garland Drain with Settling Tank	0.08
Safety Zone	0.45
Total area in use	2.68
Balance area in used	0.15
Total applied area	2.83

Land Use Pattern after Life of the Mine:







Category	Area in Ha.
Quarry +Backfilling+ Reservoir	2.30
Green Belt	0.53 (Plantation)
Total area in use	2.83
Balance area in used	0.00
Total applied area	2.83

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.53 ha	1,325 trees @ 2500 trees per ha
2	Other Reclaimed area	: 0.49 Ha.	1,225 trees @2500 trees per Ha.
3	Haul /Approach Road	: 0.65 KM	325 trees on both sides

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w,




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mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Waste Generation

A total of 17,697 cum of wastes (Over Burden) will be generated from entire M/s Alok Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	7,610.00
2 nd Year	3,400.00
3 rd Year	3,535.00
4 th Year	0
5 th Year	3,152.00
Total	17,697.00

Source: Mining Plan



Disposal of Waste from the Quarry


There is only 17,697 cum overburden will be generated in mining plan period which will be used for backfilling and maintenance of mine road and village road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management




- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Mine of M/s Alok Stone (Prop. : Shri Alok Ranjan), Mouza : Partemako, Anchal : Borio, Dist. : Sahebganj, Jharkhand (2.83 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

9. Stone Mine & Crusher of M/s Alok Stone (Prop. : Shri Alok Ranjan), Mouza : Pangro, Anchal : Borio, Dist. : Sahebganj, Jharkhand (2.93 Ha).

(Proposal No. : SIA/JH /MIN/252320/2022).




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Project Category: B2 – Application

EC Application for: Boulder Stone : 55,444.44 Cu.M. / year i.e. 1,49,700 TPA
DG Set : 20 KVA

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 23.02.2022.

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: M/s Alok Stone Project Type – Stone Mine & Crusher 50 TPH Capacity
2	Lessee:	: Proprietor – Shri Alok Ranjan
3	Lease Address	: Mouza – Pangro, Anchal - Borio, Dist. – Sahebganj, State – Jharkhand.
4	Lease Area	: Ha: 2.93 ha Acres: 7.25 Acres
	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Capital Cost – 78.50 Lakhs
7	EMP Budget	: Capital: 17.4785 Lakhs Recurring: 02.19 Lakhs
8	CSR / CER Budget	: 2.40 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 7,75,200 Cu. M. Tonnes: 20,93,040 Tonnes
11	Mine Life	: 13.98 Years
12	Man power	: 15
13	Water Requirement	: 17 KLD (Drinking:0.23 KLD, Dust Suppression: 6.80 KLD, Plantation: 9.75 KLD)
14	Water Source	: <ul style="list-style-type: none">• Water will be sourced from Abandoned Mine through Water Tanker for Dust Suppression and Plantation.• Water will be sourced from Bore Well within the lease area for Drinking and Domestic Consumption.
15	DG Set / power	: 20 KVA DG Set proposed
16	Crusher	: Crusher 50 TPH Capacity
17	Nearest Water Body	: Ganga River 7.20 KM

18	Nearest Habitation	:	Pangro Village: 0.71 Km, Sahebganj 5.20 KM
19	Nearest Rail Station	:	Sahebganj Railway station – 6.25 km – NW
20	Nearest Air Port	:	Kazi Nazrul Islam Airport – 181 km – SW
21	Nearest Forest	:	Protected Forest – 3.20 Km
22	Road & Highways	:	SH -18 – 0.97Km - West

CO-ORDINATES

Point No.	Latitude	Longitude
1	25° 12' 05.45" N	87° 40' 47.64" E
2	25° 12' 05.85" N	87° 40' 40.65" E
3	25° 12' 12.10" N	87° 40' 41.28" E
4	25° 12' 12.73" N	87° 40' 45.87" E

LAND DETAILS :

Mouza	Khata No.	Plot No.
Pangro	14	35 (P)
	10	24 (P)
	10	34 (P)
	05	33 (P)
	07	32 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (Lol) has been issued by District Mining Office, Sahebganj, vide letter no. 950 /M dated 20.09.2021
2	CO	:	The CO, Borio vide letter no. 78, dated 17.02.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Sahebganj vide memo no. 301 /M, dated 20.03.2020 certified that no lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO ,Wildlife Hazaribagh vide letter no. 1990 , dated 23.11.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Sahibganj Division vide letter no. 461, dated 22.02.2020 certified that the distance of reserved / protected forest is more

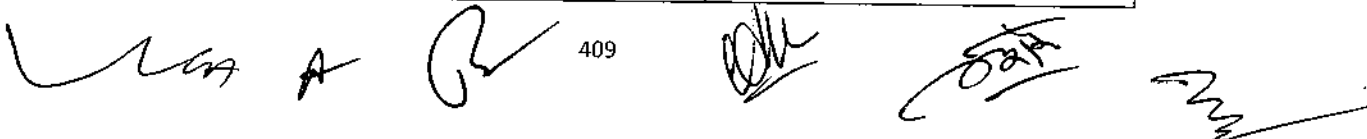
			than 250 metre from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Sahebganj vide letter no. 1156/ M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 24.01.2020
8	Mine Plan Approval	:	Letter No. 1042 dated 18.10.2021

Working Details

1	Mining Method	:	Semi Mechanised. Wagon Drilling & Blasting to be used	
2	Quarry Area	:	5 years – 1.98 Ha	End of Mine – 1.98 Ha
3	Waste Generation	:	5 years– 16,500 Cu.M	Life of Mine (Waste Gen.) – 16,500 Cu.M
4	Stripping Ratio	:	1:0.02	
5	Working Days	:	300	
6	Benches: size & No	:	6 m x more than 6 m, Bench No.- 1 to 11	
7	Elevation of Mine	:	Maximum Elevation – 171 AMSL Minimum Elevation – 123 AMSL	
8	Ground Level Elevation	:	123 AMSL	
9	Ultimate Working Depth	:	105 AMSL	
10	Water Table	:	93 AMSL (30 m bgl)	
11	Topography of Mine	:	Steep Slope	
12	Explosive Requirement	:	62.1 Tons/year	
13	Diesel/Fuel requirement	:	366 KL/year (109.8 Litres/day)	

Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cubic meters	
1st Year				A – B : 113 - 110 (1 st Bench) A – B : 110 – 104 (2 nd Bench) A – B : 104 – 98 (3 rd Bench)
2nd Year	55,444.44	1,49,700.00	7,500.00	A – B : 98 - 92 (4 th Bench)
3rd Year	55,444.44	1,49,700.00	3,000.00	A – B : 92 - 86 (5 th Bench)



4th Year	55,444.44	1,49,700.00	0	A - B : 86 - 80 (6 th Bench)
5th Year	55,444.44	1,49,700.00	3,000.00	A - B : 86 - 80 (6 th Bench) A - B : 80 - 74 (7 th Bench)
Total	2,77,222,20	7,48,500.00	16,500.00	Depth - 39 m

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	Nil
Crusher	Nil
Road (Haul Road + Approach Road)	0.04
Safety Barrier	Nil
Total area in use	0.04
Balance unused area	2.89
Total Applied Lease Area	2.93

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Ha.
Quarry	1.98
Crusher	0.10
Road	0.01
Infrastructure	0.02
O. B. Dump	0.33
Garland Drain with Settling Tank	0.06
Safety Zone	0.43
Total area in use	2.93

Land Use Pattern after Life of the Mine:

Category	Area in Ha.
Quarry +Backfilling +Reservoir	2.32
Green Belt	0.61 (Plantation)
Total area in use	2.93

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.45 ha	1,125 trees @ 2500 trees per ha
2	Other Reclaimed area	: 0.16 Ha.	400 trees @2500 trees per Ha.
3	Haul /Approach	: 0.85 KM	425 trees on both sides

Road		
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- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Waste Generation

A total of 16,500 cum of wastes (Over Burden) will be generated from entire M/s Alok Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	7,500.00
2 nd Year	3,000.00
3 rd Year	3,000.00
4 th Year	0
5 th Year	3,000.00
Total	16,500.00

Source: Mining Plan

Disposal of Waste from the Quarry

There is only 16,500 cum overburden will be generated in mining plan period which will be used for backfilling and maintenance of mine road and village road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.

- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

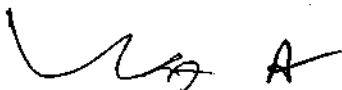
Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Mine & Crusher of M/s Alok Stone (Prop. : Shri Alok Ranjan), Mouza : Pangro, Anchal : Borio, Dist. : Sahebganj, Jharkhand (2.93 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - 1.



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10. Shiyalpahari Stone Mine of Shri Amardeep, Mouza : Shiyalpahari, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.43 Ha).

(Proposal No. : SIA/JH/MIN/ 250737/2022).

Project Category: B2 – Application

EC Application for: Boulder Stone : 48,135.20 Cu.M. / year i.e. 1,34,778.50 TPA
DG Set : 10 KVA

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 23.02.2022.

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Shiyalpahari Stone Mine Project Type – Stone Mine
2	Lessee:	: Shri Amardeep
3	Lease Address	: Mouza – Shiyalpahari, P.S. - Shikaripara, Dist. – Dumka, State – Jharkhand.
4	Lease Area	: Ha: 2.43 ha Acres: 6.01 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Capital Cost – 73.00 Lakhs
7	EMP Budget	: Capital: 17.92 Lakhs Recurring: 02.24 Lakhs
8	CSR / CER Budget	: 2.10 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 3,86,868 Cu. M. Tonnes: 10,83,231 Tonnes
11	Mine Life	: 8.04 years
12	Man power	: 26
13	Water Requirement	: 16.57 KLD (Drinking:0.39 KLD, Dust Suppression: 2.80 KLD, Plantation:13.38 KLD
14	Water Source	: <ul style="list-style-type: none"> • Water will be sourced from Abandoned Mine through Water Tanker for Dust Suppression and Plantation. • Water will be sourced from Bore Well within the lease area for Drinking and Domestic Consumption.
15	DG Set / power	: 10 KVA DG Set proposed
16	Crusher	: NA
17	Nearest Water Body	: Brahmani River 7.60 KM
18	Nearest Habitation	: Shiyalpahari Village: 0.35 Km, Dumka 42.3 KM
19	Nearest Rail Station	: Pinargariya Railway station – 4.75 km – NW
20	Nearest Air Port	: Kazi Nazrul Islam Airport – 74.00 km – SW
21	Nearest Forest	: Protected Forest - 2.50 Km

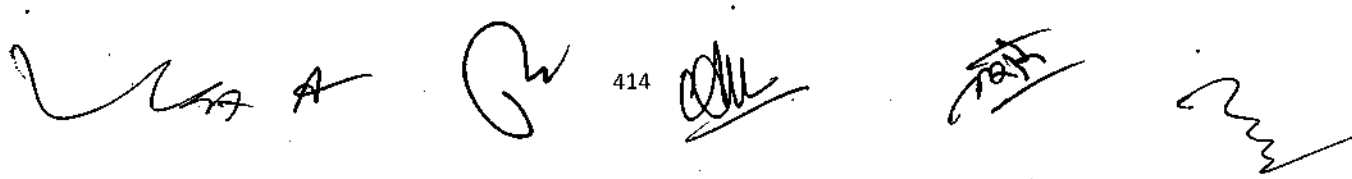
22	Road & Highways	:	NH 114 A – 3.15 KM;
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CO-ORDINATES

Point No.	Latitude	Longitude
1	24° 09' 59.73" N	87° 39' 05.41" E
2	24° 10' 01.44" N	87° 39' 00.66" E
3	24° 10' 01.58" N	87° 39' 00.12" E
4	24° 10' 02.05" N	87° 39' 00.03" E
5	24° 10' 02.12" N	87° 39' 00.16" E
6	24° 10' 02.77" N	87° 39' 00.56" E
7	24° 10' 03.44" N	87° 39' 01.06" E
8	24° 10' 04.00" N	87° 39' 01.38" E
9	24° 10' 04.99" N	87° 39' 02.17" E
10	24° 10' 06.32" N	87° 39' 02.96" E
11	24° 10' 07.45" N	87° 39' 03.49" E
12	24° 10' 08.31" N	87° 39' 03.51" E
13	24° 10' 07.42" N	87° 39' 04.92" E
14	24° 10' 07.05" N	87° 39' 05.87" E
15	24° 10' 06.56" N	87° 39' 06.26" E
16	24° 10' 06.32" N	87° 39' 04.92" E
17	24° 10' 06.32" N	87° 39' 04.92" E
18	24° 10' 06.06" N	87° 39' 04.67" E
19	24° 10' 05.61" N	87° 39' 04.62" E
20	24° 10' 05.22" N	87° 39' 04.70" E
21	24° 10' 04.84" N	87° 39' 03.85" E
22	24° 10' 04.78" N	87° 39' 03.34" E
23	24° 10' 04.83" N	87° 39' 02.93" E
24	24° 10' 04.42" N	87° 39' 02.88" E
25	24° 10' 03.57" N	87° 39' 03.42" E
26	24° 10' 03.93" N	87° 39' 03.57" E
27	24° 10' 04.00" N	87° 39' 03.84" E
28	24° 10' 04.49" N	87° 39' 04.08" E
29	24° 10' 04.86" N	87° 39' 04.66" E
30	24° 10' 04.32" N	87° 39' 05.47" E
31	24° 10' 04.04" N	87° 39' 06.60" E
32	24° 10' 01.77" N	87° 39' 06.06" E

LAND DETAILS

Mouza	Khata No.	Plot No.
Shiyalpahari	03	44 (P)
	04	49 (P)
	05	58, 59
	06	48 (P)
	07	71 (P), 40 (P), 42 (P), 51 (P)
	08	43, 45 (P), 46 (P), 52 (P), 60 (P)


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STATUTORY CLEARANCES :

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, vide letter no. 942/M dated 24.06.2021
2	CO	: The CO, Shikaripara vide letter no. 434, dated 06.05.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	: DMO, Dumka vide memo no. 835/M, dated 15.06.2021 certified that no lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 989, dated 14.06.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Dumka Division vide letter no. 1225, dated 02.06.2021 certified that the distance of reserved / protected forest is more than 250 metre from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Dumka vide letter no. 949/ M, dated 25.06.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 25.02.2021
8	Mine Plan Approval	: Letter No. 803/G dated 15.12.2021

Working Details

1	Mining Method	: Semi Mechanised. Wagon Drilling & Blasting to be used
2	Quarry Area	: 5 years – 1.59 Ha End of Mine – 1.72 Ha
3	Waste Generation	: 5 years– 43,407.10 Cu.M Life of Mine (Waste Gen.) – 43,407.10 Cu.M
4	Stripping Ratio	: 1:0.07
5	Working Days	: 300
6	Benches: size & No	: 5 m x more than 5, Bench No.- 1 to 7
7	Elevation of Mine	: Maximum Elevation – 126 AMSL Minimum Elevation – 123 AMSL
8	Ground Level Elevation	: 123 AMSL

9	Ultimate Working Depth	:	96 AMSL
10	Water Table	:	72 AMSL (51 m bgl)
11	Topography of Mine	:	Undulating Terrain
12	Explosive Requirement	:	9.6 Tons/year
13	Diesel/Fuel requirement	:	486 KL/year (145.8 Litres/day)

Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cubic meters	
1st Year	36314.5	101680.6	42308.0	A-A' : 72 - 64 (O.B.) B-B' : 68 - 64 (O.B.) A-A' : 69 - 64 (Stone) B-B' : 68 - 64 (Stone)
2nd Year	48135.2	134778.5	1099.1	A-A' : 64 - 59 (O.B.) A-A' : 64 - 59 (Stone)
3rd Year	47308.6	132464.1	0	A-A' : 59 - 54 (Stone)
4th Year	41239.8	115471.4	0	A-A' : 54 - 49 (Stone)
5th Year	39041.9	109317.3	0	A-A' : 49 - 44 (Stone) B-B' : 64 - 59 (Stone)
Total	212040.0	593711.9	43,407.10	Depth - 23 m

Land Use

Existing Land Use pattern

Category	Area in Ha.
Old Quarry	0.29
Safety Zone	0.00
Road	0.00
Total area in use	0.29
Balance area in used	2.14
Total applied area	2.43

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Ha.
Quarry	1.59
Haul Road	0.13
O. B. Dump	0.04
Garland Drain with Settling Tank	0.09

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Safety Zone	0.58
Total area in use	2.43
Balance area in used	0.00
Total applied area	2.43

Land Use Pattern after Life of the Mine:

Category	Area in Ha.
Quarry + Haul Road	1.72 (To be converted into Water Body after reducing the depth partially)
O. B. Dump + Garland Drain + Safety Zone	0.71 (Plantation)
Total area in use	2.43
Balance area in used	0.00
Total applied area	2.43

ENVIRONMENT MANAGEMENT

Green Belt Development



SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.58 ha	1450 trees @ 2500 trees per ha
2	Other Reclaimed Area	: 0.13 Ha.	325 trees @ 2500 trees per Ha.
3	Haul /Approach Road	: 1.35 KM	901 trees on both sides – 3 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

Waste Generation

A total of 43,407.10 cum of wastes (Over Burden) will be generated from entire Shiyalpahari Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

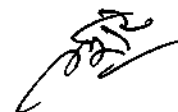



Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	42,308.0
2 nd Year	1,099.1
3 rd Year	0
4 th Year	0
5 th Year	0
Total	43,407.10

Source: Mining Plan

Disposal of Waste from the Quarry

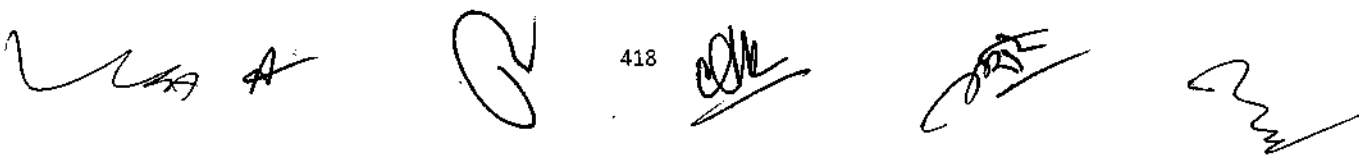
There is only 43,407.1 cum overburden will be generated in mining plan period which will be used in maintenance of mine road and village road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice

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- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- The Boundary Pillars of the proposed mine lease area will be maintained properly.
- One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Shiyalpahari Stone Mine of Shri Amardeep, Mouza : Shiyalpahari, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.43 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

11. Shiyalpahari Stone Mine of Shri Amardeep, Mouza : Shiyalpahari, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.38 Ha).

(Proposal No. : SIA/JH/MIN/ 249844/2022).

Project Category: B2 – Application

EC Application for: Boulder Stone : 42,369.60 Cu.M. / year i.e. 1,18,635 TPA
DG Set : 10 KVA

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 23.02.2022.

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Shiyalpahari Stone Mine Project Type – Stone Mine

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2	Lessee:	:	Shri Amardeep
3	Lease Address	:	Mouza – Shiyalpahari, P.S. - Shikaripara, Dist. – Dumka, State – Jharkhand.
4	Lease Area	:	Ha: 2.38 ha Acres: 5.88 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	Capital Cost – 72.35 Lakhs
7	EMP Budget	:	Capital: 17.79 Lakhs Recurring: 02.09 Lakhs
8	CSR / CER Budget	:	1.90 Lakhs
9	New or Expansion	:	New Project
10	Mineable Reserves	:	Cu.M.: 3,76,086 Cu. M. Tonnes: 10,53,040 Tonnes
11	Mine Life	:	8.74 years
12	Man power	:	26
13	Water Requirement	:	16.06 KLD (Drinking:0.39 KLD, Dust Suppression: 3.76 KLD, Plantation:11.91 KLD
14	Water Source	:	<ul style="list-style-type: none"> • Water will be sourced from Abandoned Mine through Water Tanker for Dust Suppression and Plantation. • Water will be sourced from Bore Well within the lease area for Drinking and Domestic Consumption.
15	DG Set / power	:	10 KVA DG Set proposed
16	Crusher	:	NA
17	Nearest Water Body	:	Brahmani River 7.85 KM
18	Nearest Habitation	:	Shiyalpahari Village: 0.39 Km, Dumka 42.2 KM
19	Nearest Rail Station	:	Pinargaria 4.60 KM
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Durgapur – 74 Km
21	Nearest Forest	:	Protected Forest - 2.20 Km
22	Road & Highways	:	NH 114 A – 3.50 KM;

CO-ORDINATES

Sl. No.	Latitude	Longitude
1	24° 10' 01.66" N	87° 39' 00.05" E
2	24° 09' 59.73" N	87° 39' 05.41" E
3	24° 09' 57.47" N	87° 39' 04.35" E
4	24° 09' 56.11" N	87° 39' 03.91" E
5	24° 09' 56.56" N	87° 39' 02.18" E
6	24° 09' 55.10" N	87° 39' 01.20" E
7	24° 09' 55.10" N	87° 39' 00.66" E
8	24° 09' 56.19" N	87° 38' 59.13" E
9	24° 09' 57.03" N	87° 38' 59.16" E
10	24° 09' 57.73" N	87° 38' 58.86" E
11	24° 09' 58.55" N	87° 38' 59.14" E
12	24° 09' 59.23" N	87° 38' 59.08" E

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LAND DETAILS

Mouza	Khata No.	Plot No.
Shiyalpahari	07	38 (P), 42 (P), 51 (P), 148 (P)
	06	48 (P)
	08	52 (P)
	09	50 (P)
	04	49 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, vide letter no. 943/M dated 24.06.2021
2	CO	:	The CO, Shikaripara, Dumka, vide letter no. 433/R, dated 06.05.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Dumka vide memo no. 834/M, dated 15.06.2021 certified that no lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 990, dated 14.06.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Dumka Division vide letter no. 1288, dated 11.06.2021 certified that the distance of notified forest is more than 250 metre from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Dumka vide letter no. 949/ M, dated 25.06.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 25.02.2021
8	Mine Plan Approval	:	Letter No. 757/G dated 09.11.2021

Working Details

1	Mining Method	:	Semi Mechanised. Wagon Drilling & Blasting to be used
2	Quarry Area	:	5 years – 1.67 Ha End of Mine – 1.82Ha
3	Waste Generation	:	5 years– 32,332.1 Cu.M Life of Mine (Waste Gen.) – 32,332.10 Cu.M
4	Stripping Ratio	:	1:0.06
5	Working Days	:	300
6	Benches: size & No	:	5 m x more than 5, Bench No.- 1 to 10

7	Elevation of Mine	:	Maximum Elevation – 127 AMSL Minimum Elevation – 122 AMSL
8	Ground Level Elevation	:	122 AMSL
9	Ultimate Working Depth	:	77 AMSL
10	Water Table	:	72 AMSL (50 m bgl)
11	Topography of Mine	:	Undulating Terrain
12	Explosive Requirement	:	9.6 Tons/year
13	Diesel/Fuel requirement	:	486 KL/year (145.8 Litres/day)

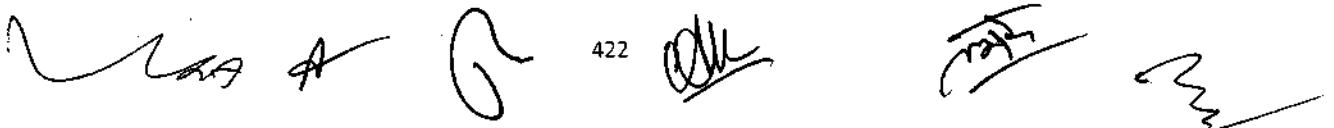
Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cubic meters	
1st Year	40,932.4	1,14,610.7	32,332.1	A-A' : 74-72 (O.B.) B-B' : 74 -72(O.B.) C - C' : 74 – 72 (O.B.) A-A' : 72 – 64 (Stone) B-B' : 72 – 64 (Stone) C - C' :72 – 69 (Stone)
2nd Year	41,600.3	1,16,480.8	0	B – B' : 69 - 64 (Stone) C – C' : 69 – 64 (Stone)
3rd Year	41,564.9	1,16,381.8	0	A -A' : 64 - 59 (Stone) B-B' : 64 – 59 (Stone) C – C' : 64 – 59 (Stone)
4th Year	42,369.6	1,18,635.0	0	B- B' : 59 – 54 (Stone) C-C' : 64 – 59 (Stone) C-C' : 59 – 54 (Stone)
5th Year	38,975.9	1,09,132.6	0	A- A' : 59-54 (Stone) B – B' : 59-49 (Stone) C – C' : 54 – 49 (Stone)
Total	2,05,443.1	5,75,240.9	32,332.1	Depth – 25 m

Land Use

Existing Land Use pattern

Category	Area in Ha.
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Old Quarry	0.11
Safety Zone	0.00
Road	0.00
Total area in use	0.11
Balance area in used	2.27
Total applied area	2.38

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Ha.
Quarry	1.56
Old Quarry	0.11
Haul Road	0.15
O. B. Dump	0.08
Garland Drain with Settling Tank	0.07
Safety Zone	0.41
Total area in use	2.38
Balance area in used	0.00
Total applied area	2.38

Land Use Pattern after Life of the Mine:

Category	Area in Ha.
Quarry + Old Quarry + Haul Road	1.82 (To be converted into Water Body after reducing the depth partially)
O. B. Dump + Garland Drain + Safety Zone	0.56 (Plantation)
Total area in use	2.38
Balance area in used	0.00
Total applied area	2.38

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.41 ha	1025 trees @ 2500 trees per ha
2	Other Reclaimed Area	: 0.15 Ha.	375 trees @ 2500 trees per Ha.
3	Haul /Approach Road	: 1.47KM	981 trees on both sides – 3 m distance

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- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

A total of 32,332.1 cum of wastes (Over Burden) will be generated from entire Shiyalpahari Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	32,332.1
2 nd Year	0
3 rd Year	0
4 th Year	0
5 th Year	0
Total	32,332.1

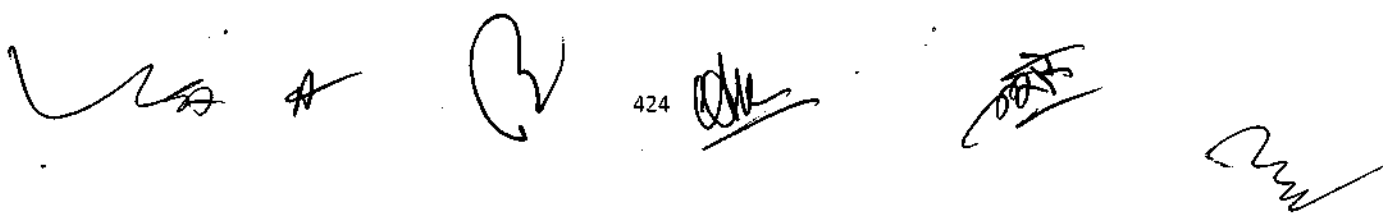
Source: Mining Plan

Disposal of Waste from the Quarry

There is only 32332.1 cum overburden will be generated in mining plan period which will be used in maintenance of mine road and village road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.


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Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Shiyalpahari Stone Mine of Shri Amardeep, Mouza : Shiyalpahari, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.38 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

12. Basmata Stone Mine of M/s Maa Durga Stone Works, Village : Basmata, Tehsil : Pakur, Dist. : Pakur, Jharkhand (2.00 Ha).

(Proposal No. : SIA/JH/MIN/72205 /2022).

Project Category: B1 – Application

EC Application for: Boulder Stone : 35,960 Cu.M. / year i.e. 1,00,688 TPA

DG Set : 20 KVA

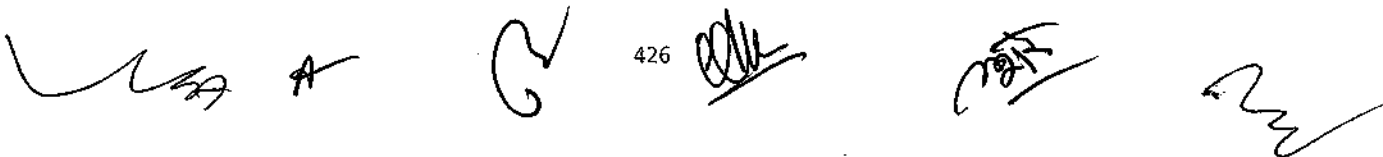
Name of the consultant : Sathi Planners Pvt. Ltd.,

Ranchi PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Basmata Stone Mine Project Type – Stone Mine
2	Lessee:	: M/s Maa Durga Stone Works, Sri Soumitro Ghosh
3	Lease Address	: Mouza – Basmata, P.S. – Malpahari (OP), No.- 112 Dist. – Pakur, State – Jharkhand.
4	Lease Area	: Ha: 2.0 ha Acres: 4.95 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Capital Cost – 74.75 Lakhs
7	EMP Budget	: Capital Cost – 19.22 Lakhs Recurring Cost – 4.65 Lakhs
8	CSR / CER Budget	: 2.75 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 3,59,311.10 Cu. M. Tonnes: 10,06,071 Tonnes
11	Mine Life	: 10 years
12	Man power	: 19
13	Water Requirement	: 17.99 KLD (Drinking:0.285 KLD, Dust Suppression: 6.4 KLD, Plantation:11.30 KLD)
14	Water Source	: Water will be sourced from Bore Well (Inside the lease area) for Drinking Purpose. Water will be sourced from Abandon Mine at a distance of 1.20 Km from the lease area for Dust Suppression and Plantation.
15	DG Set / power	: 20 KVA DG Set proposed
16	Crusher	: NA
17	Nearest Water Body	: Ganga River, 16km NE
18	Nearest Habitation	: Piprajora Village 0.7m - North, Presence of habitation in more than 500m
19	Nearest Rail Station	: Nagarnabi at a distance of 2.5 km in NE
20	Nearest Air Port	: Ranchi – 292 km – SW
21	Nearest Forest	: NIL within 10 km
22	Road & Highways	: NH 114 A – 6.1 KM North

CO-ORDINATES

Sl. No.	Latitude	Longitude
1	24°35'0.25"N	87°50'48.75"E
2	24°35'0.21"N	87°50'50.39"E
3	24°34'58.71"N	87°50'50.17"E
4	24°34'58.61"N	87°50'50.09"E

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5	24°34'58.59"N	87°50'49.55"E
6	24°34'56.58"N	87°50'49.38"E
7	24°34'54.30"N	24°34'54.30"N
8	24°34'54.00"N	87°50'49.70"E
9	24°34'52.93"N	87°50'49.02"E
10	24°34'52.14"N	87°50'48.68"E
11	24°34'51.93"N	87°50'49.03"E
12	24°34'50.93"N	87°50'48.13"E
13	24°34'50.81"N	87°50'47.77"E
14	24°34'50.49"N	87°50'48.08"E
15	24°34'49.74"N	87°50'47.73"E
16	24°34'49.91"N	87°50'47.39"E
17	24°34'51.08"N	87°50'47.47"E
18	24°34'51.11"N	87°50'46.99"E
19	24°34'52.03"N	87°50'46.97"E
20	24°34'52.54"N	87°50'47.09"E
21	24°34'52.56"N	87°50'46.79"E
22	24°34'53.07"N	87°50'46.74"E
23	24°34'53.40"N	87°50'46.75"E
24	24°34'53.46"N	87°50'46.59"E
25	24°34'53.44"N	87°50'46.08"E
26	24°34'54.04"N	87°50'46.21"E
27	24°34'56.04"N	87°50'46.41"E
28	24°34'56.88"N	87°50'46.65"E
29	24°34'58.84"N	87°50'46.93"E
30	24°34'58.95"N	87°50'47.03"E
31	24°34'58.75"N	87°50'48.36"E
32	24°34'59.95"N	87°50'48.75"E

LAND DETAILS

Mouza	Khata No.	Plot No.
Basmata	28, 14, 06, 24	375, 376, 377/P, 378, 382, 442, 446, 447, 448, 449 & 450

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STATUTORY CLEARANCES :

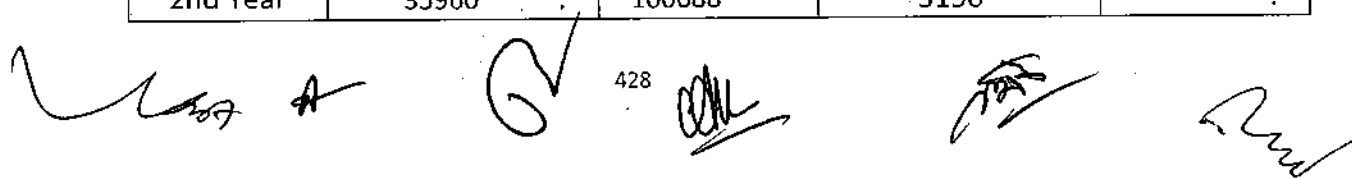
1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, vide letter no. 676/M dated 13/05/2020
2	CO	:	The CO, Pakur, vide letter no. 21/R, dated 08/01/2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide memo no. 976/M, dated 24/06/2020 certified that four lease areas (6.37 acre, 3.13 acre, 5.44 acre & 4.094 acre) exist within 500 m radius from proposed project site & Total lease area is 9.71 Ha, i.e. more than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 330, dated 10.02.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Division vide letter no. 305, dated 04.02.2020 certified that the distance of reserved / protected forest is more than 250 metre.
6	DSR	:	This project is mentioned in District Survey Report (DSR), Pakur (Page No. 72, Sl. No. 81) and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 30.11.2019
8	Mine Plan Approval	:	Memo No. 202/DDM dated 13/08/2020

Working Details

1	Mining Method	:	Semi Mechanised. Wagon Drilling & Blasting to be used
2	Quarry Area	:	5 years – 1.00 Ha End of Mine – 1.31 Ha
3	Waste Generation	:	5 years– 9,790 Cu.M Life of Mine (Waste Gen.) – 9,790 Cu.M
4	Stripping Ratio	:	1:0.07
5	Working Days	:	300
6	Bench: size & No	:	6 m x more than 6 , Bench No.- 1 to 3
7	Elevation of Mine	:	Maximum Elevation – 98 AMSL Minimum Elevation – 95AMSL
8	Ground Level Elevation	:	95 AMSL
9	Ultimate Working Depth	:	78 AMSL
10	Water Table	:	67 AMSL (28 m bgl)
11	Topography of Mine	:	Undulating Terrain
12	Explosive Requirement	:	16kg/day
13	Diesel/Fuel requirement	:	126 KL/year (420 Litres/day)

Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL(m)
	Cubic meters	Tons	Cum.	
1st Year	35937	100624	3366	39-33
2nd Year	35960	100688	3190	39-33



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3rd Year	35942	100638	3234	39-33 33-27
4th Year	35940	100632	0	33-27
5th Year	35916	100565	0	33-27 27-21
Total	179695	503147	9,790	Depth - 18 m

Land Use

Existing Land Use pattern

Category	Area in Ha.
Quarry	0.00
Safety Zone	0.00
Road	0.00
Total area in use	0.00
Balance area in used	2.00
Total applied area	2.00

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Ha.
Quarry including road	1.00
Safety Zone	0.66
O. B. Dump	0.01
Garland Drain with Settling Tank	0.02
Total area in use	1.69
Balance area in used	0.31
Total applied area	2.00

Land Use Pattern after Life of the Mine:

Category	Area in Ha.
Quarry including road	1.31 (To be Converted to Water Body after reducing the depth partially)
Safety Zone	0.66 (Plantation)
O. B. Dump	0.01 (Plantation)
Garland Drain with Settling Tank	0.02 (Plantation)
Total area in use	2.00
Balance area in used	0.00
Total applied area	2.00


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ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.66 ha	1,650 trees @ 2500 trees per ha
2	Other Reclaimed Area	:	0.03 Ha.	75 trees @ 2500 trees per Ha.
3	Haul /Approach Road	:	0.80 KM	534 trees on both sides – 3 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

Waste Generation

A total of 9,790 cum of wastes (Over Burden) will be generated from entire Basmata Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	3366
2 nd Year	3190
3 rd Year	3234
4 th Year	0
5 th Year	0
Total	9,790

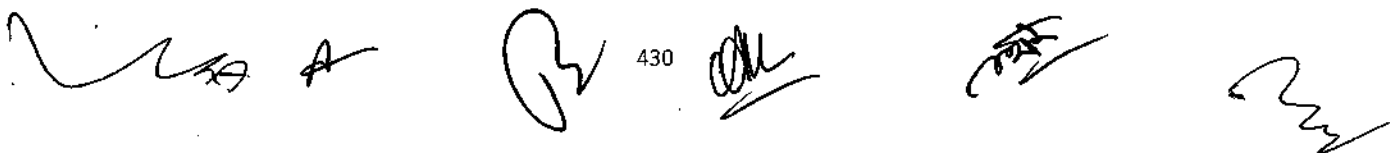
Source: Mining Plan

Disposal of Waste from the Quarry

There is only 9,790 cum overburden will be generated in mining plan period which will be used in construction and maintenance of internal mine road and berm along the approach road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling

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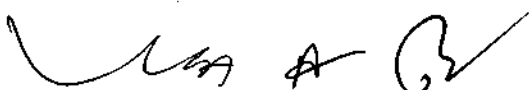
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

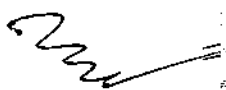
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.



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- i. If any tree felling is required permission should be taken from competent authority.

Baseline data generation has been done period October, 2021 to December, 2021.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

13. Basmata Stone Mine of Otan Das & Company (Mining) Pvt. Ltd, Mouza : Basmata, P.S.: Pakur, Dist. : Pakur, Jharkhand (1.64 Ha).

(Proposal No. : SIA/JH/MIN/68848 /2021).

Category: B1 Application

EC Application for: Boulder Stone 55,460 Cu.M. / year i.e. 1,60,834 TPA

DG Set : 20 KVA

Name of the consultant : Sathi Planners Pvt. Ltd.,

Ranchi PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	Basmata Stone Mine Project Type – Stone Mine
2	Lessee:	M/s Otan Das and Company (Mining) Pvt. Ltd. Director – Shri Ashok Kumar Mandhyan
3	Lease Address	Mouza – Basmata, P.S. – Pakur, Thana No.-112 Dist. – Pakur, State – Jharkhand.
4	Lease Area	Ha: 1.64 ha Acres: 4.06 Acres
5	Type of Land	Non Forest – Rayati Land
6	Project Cost	Capital Cost – 74.85 Lakhs
7	EMP Budget	Capital Cost – 14.6185 Lakhs (Proposed) Recurring – 2.09 Lakhs
8	CSR / CER Budget	2.20 Lakhs (Proposed)
9	New or Expansion	New Project
10	Mineable Reserves	Cu.M.: 3,24,854 Cu. M. Tonnes: 9,42,077 Tonnes
11	Mine Life	7 years
12	Man power	37
13	Water Requirement	13.53 KLD (Drinking:0.56 KLD, Dust Suppression: 4 KLD, Plantation: 8.97 KLD)
14	Water Source	Water will be sourced from Bore Well (Inside the lease area) for Drinking Purpose. Water will be sourced from Abandon Mine at a distance of 1 Km from the lease area for Dust Suppression and Plantation.

15	DG Set / power	:	20 KVA DG Set proposed
16	Crusher	:	NA
17	Nearest Water Body	:	Bansloi River – 13.20 km- SW
18	Nearest Habitation	:	Basmata Village – 0.38 km - SW, Presence of habitation in more than 500m
19	Nearest Rail Station	:	Nagarnabi at a distance of 1.9 km in NE
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Andal, Paschim Bardhaman– 124 km- SW
21	Nearest Forest	:	Protected Forest – 2.70 Km
22	Road & Highways	:	Malpahari Road – 0.55 Kms. – East Dhulian Pakur Road – 5.60 Km - North

CO-ORDINATES

Point	Latitude	Longitude
1	24°35'01.08" N	87°51'00.28" E
2	24°35'01.01" N	87°50'57.54" E
3	24°35'02.20" N	87°50'58.22" E
4	24°35'02.26" N	87°50'58.50" E
5	24°35'02.57" N	87°50'58.53" E
6	24°35'02.96" N	87°50'57.19" E
7	24°35'04.63" N	87°50'56.16" E
8	24°35'05.25" N	87°50'55.57" E
9	24°35'05.96" N	87°50'55.02" E
10	24°35'06.29" N	87°50'55.81" E
11	24°35'04.96" N	87°50'58.37" E
12	24°35'04.39" N	87°51'01.09" E
13	24°35'04.00" N	87°51'01.89" E
14	24°35'03.67" N	87°51'01.72" E
15	24°35'03.44" N	87°51'02.16" E
16	24°35'03.48" N	87°51'02.72" E
17	24°35'03.35" N	87°51'02.85" E
18	24°35'03.38" N	87°51'03.15" E
19	24°35'03.02" N	87°51'03.20" E
20	24°35'02.90" N	87°51'02.71" E
21	24°35'02.65" N	87°51'02.67" E
22	24°35'01.59" N	87°51'01.31" E

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			27,376 Cu.M
4	Stripping Ratio	:	1:0.04
5	Working Days	:	300
6	Benches: size & No	:	6 m x more than 6 , Bench No.- 1 to 4
7	Elevation of Mine	:	Maximum Elevation – 90 AMSL Minimum Elevation – 88 AMSL
8	Ground Level Elevation	:	88 AMSL
9	Ultimate Working Depth	:	68 AMSL
10	Water Table	:	66 AMSL (13 m bgl)
11	Topography of Mine	:	Undulating Terrain
12	Explosive Requirement	:	25.05 kg/day
13	Diesel/Fuel requirement	:	151.2 KL/year (504 Litres/day)

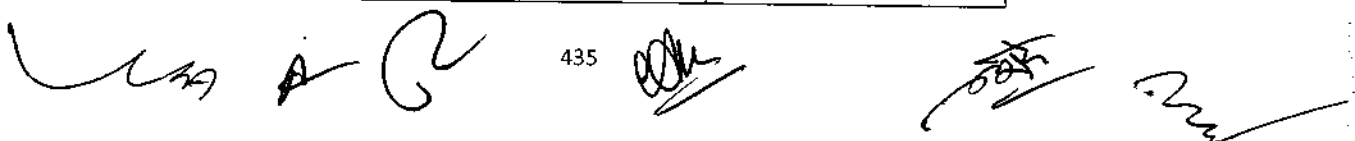
Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cubic meters	
1st Year	49,796	1,44,408	15,340	37 – 35 (O.B.) 35 – 30 (Stone)
2nd Year	55,460	1,60,834	12,036	36.5 – 35 (O.B.) 35 – 30 (Stone)
3rd Year	46,846	1,33,853	0	30 – 25 (Stone)
4th Year	47,318	1,37,222	0	30 – 25 (Stone)
5th Year	49,796	1,44,408	0	25 – 20 (Stone)
Total	2,49,216	7,22,726	27,376	Depth- 17 m

Land Use

Existing Land Use pattern

Category	Area in Hectares
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Quarry	0.00
Road	0.00
Total area in use	0.00
Balance area unused	1.64
Total Leasehold area	1.64

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Hectares
Quarry	0.89
Office	0.01
Dump	0.04
Mining Road	0.02
Safety Zone/ Garland Drain/ Settling Tank	0.52
Total area in use	1.48
Unutilized	0.16
Total Leasehold area	1.64

Land Use Pattern after Life of the Mine:

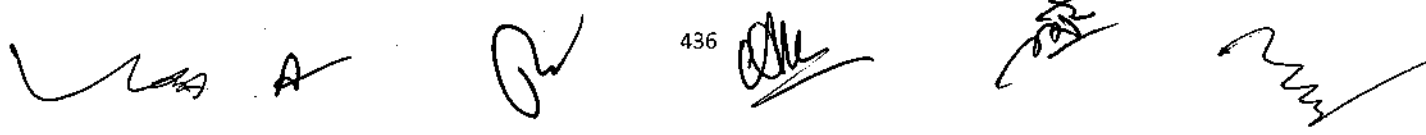
Category	Area in Hectares
Quarry + Road	Water Body – 0.91 (To be Converted to Water Body after reducing the depth partially)
Safety Zone/ Garland Drain/ Settling Tank	0.52 (Plantation)
Dump +Office	0.05 (Plantation)
Unutilized	0.16
Total Leasehold area	1.64

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.52 ha	1,300 trees @ 2500 trees per ha
2	Other Reclaimed Area	: 0.05 Ha.	125 trees @ 2500 trees per Ha.
3	Haul /Approach Road	: 0.55 KM	368 trees on both sides – 3 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be



submitted with compliance report.

Solid Waste Management

Waste Generation

A total of 27,376 cum of wastes (Over Burden) will be generated from entire Basmta Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum.
1 st Year	15,340
2 nd Year	12,036
3 rd Year	0
4 th Year	0
5 th Year	0
Total	27,376

Source: Mining Plan

Disposal of Waste from the Quarry

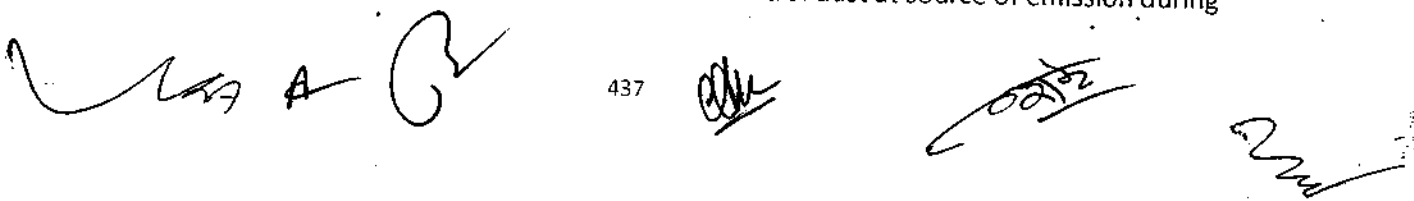
There is only 9,790 cum overburden will be generated in mining plan period which will be used in construction and maintenance of internal mine road and berm along the approach road.

Water Quality Management

- Mining is planned to be above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any, shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any, shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during



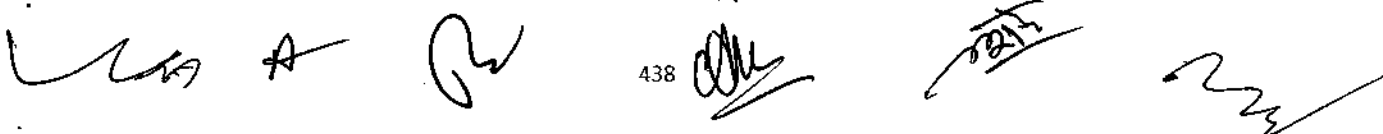
- drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
 - Controlled blasting to reduce dust emission and reduction in NOx emission
 - All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
 - Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
 - Water sprinkling at loading area shall be done
 - Use of personal protective equipment like dust mask etc shall be put in practice
 - Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Baseline data generation has been done period October, 2021 to December, 2021.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

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CO-ORDINATES

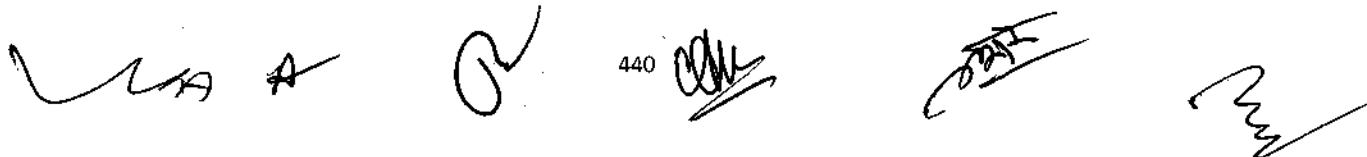
GPS Coordinate		
Point	Latitude	Longitude
1	24°33'32.60"N	87°43'16.40"E
2	24°33'32.19"N	87°43'18.53"E
3	24°33'31.15"N	87°43'19.24"E
4	24°33'27.44"N	87°43'18.71"E
5	24°33'26.17"N	87°43'18.77"E
6	24°33'26.12"N	87°43'16.63"E
7	24°33'26.45"N	87°43'14.71"E
8	24°33'24.20"N	87°43'13.59"E
9	24°33'24.85"N	87°43'12.36"E
10	24°33'27.90"N	87°43'13.63"E
11	24°33'28.06"N	87°43'13.29"E
12	24°33'28.78"N	87°43'13.54"E
13	24°33'30.56"N	87°43'14.92"E
14	24°33'30.75"N	87°43'15.38"E

LAND DETAILS

Mouza	Khata No.	Plot No.
Amlagachi	04	475

STATUTORY CLEARANCES

1	LOI/Lease docs	: The Letter of Intent (Lol) has been issued by District Mining Office, Pakur, vide letter no. 589/M dated 23.04.2020
2	CO	: The CO, Maheshpur, Pakur, vide letter no. 593/R, dated 06.08.2019 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	: DMO, Pakur vide memo no. 1401/M, dated 12.09.2020 certified that two lease areas (7.09 acre & 3.16 acre) exists within 500 m radius from proposed project site & Total lease area is 6.81 Ha, i.e. more than 5 Ha.
4	DFO Wild Life	: DFO Wildlife, Hazaribagh vide letter no. 1542, dated 03.08.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Division vide letter no. 1169, dated 18.09.2019 certified that the distance of reserved / protected forest is more than 250 meter.
6	DSR	: This project is mentioned in District Survey Report (DSR) of Pakur district in Chapter 13 (Page No. 66 at St. No. 32).
7	Gram Sabha	: On 28.08.2019


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8	Mine Plan Approval	: Letter No. 165/DDM, dated 06.07.2020
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Working Details

1	Mining Method	: Semi-mechanized open cast mining by wagon drills and control blasting.
2	Quarry Area	: 5 years – 1.10 Ha End of Mine – 1.78 Ha
3	Waste Generation	: 5 years– 9,531 Cu.M
4	Stripping Ratio	: 1:0.02
5	Working Days	: 300
6	Benches: size & No	: 6 m x 6 m, Bench No.- 1 to 4
7	Elevation of Mine	: Maximum Elevation – 174 AMSL Minimum Elevation – 172 AMSL
8	Ground Level Elevation	: 172 AMSL
9	Ultimate Working Depth	: 148 AMSL
10	Water Table	: 139 AMSL (33 m bgl)
11	Topography of Mine	: Undulating Terrain
12	Explosive Requirement	: 3.7 kg/day
13	Diesel/Fuel requirement	: 119.4 KL/year (398 Litres/day)

Production Details

Year	Annual Production Plan		OB	Bench RL in meters
	In Cubic Meters	In Tons	In Cubic Meters	
1 st	43,102	120,686	4,290	120-112
2 nd	42,861	120,011	3,008	112-106
3 rd	42,925	120,190	1,273	120-112
4 th	42,869	120,033	960	112-106
5 th	42,880	120,064	0	106-100
Total	214,637	600,984	9,531	Depth- 20 m

Land Use

Existing Land Use pattern

Category	Area in Hectares
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Barren Land	2.66
Quarry	0
Crusher Plant	0
Infrastructure	0
Garland drain	0
Settling Tank	0
Total	2.66

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Hectares
Quarry including Road	1.10
Safety Zone	0.88
O.B. Dump with Parapet Wall	0.01
Garland drain	0.01
Total area in use	2.00
Balance unused area	0.66
Total Leasehold area	2.66

Land Use Pattern after Life of the Mine:

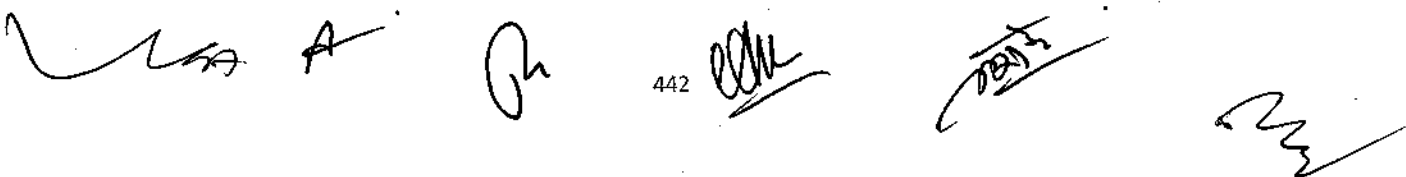
Category	Area in Hectares
Quarry + Dump + Garland Drain	Water Body after reducing the depth partially)
Safety Zone/ Greenbelt	0.88 (Plantation)
Total Leasehold area	2.66

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.88 ha	2200 trees @ 2500 trees per ha
2	Haul /Approach Road	0.5 KM	334 trees on both sides – 3 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.


 A series of handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, a signature with 'A' next to it, a signature with 'Ph' below it, the number '442', a signature with '442' above it, a signature with '2015' above it, and a signature on the far right.

Waste Generation Waste Generation

A total of 9,531 cum of wastes (Over Burden) will be generated from entire Amlagachi Stone Deposit up to conceptual stage. Year-wise waste generation during the planned period is given below:

Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	4,290
2 nd Year	3,008
3 rd Year	1,273
4 th Year	960
5 th Year	0
Total	9,531

Source: Mining Plan

Disposal of Waste from the Quarry




There is only 9,531 cum overburden will be generated in mining plan period which will be used for mine road construction & berm along the approach road construction & maintenance.

Water Quality Management

- Mining is planned to be above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any, shall be discharged in a natural stream after settling of suspended particles in the pit. A pump having required capacity will be installed to lift accumulated rain water from the working pit and pumped to the settling tank.
- A garland drain shall be made around the waste dump and the rain water shall be collected in the garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to the natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water, a Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any, shall be used for plantation.
- It shall be ensured that the quality of drinking water for the worker is hygienic and a good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission.
- All machineries and transport vehicles shall be properly maintained and pollution check will be







done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.

- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Baseline data generation has been done period October, 2021 to December, 2021.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

15. Bishunpur Stone Mine of M/s Otan Das & Company (Mining) Pvt. Ltd., Mouza : Bishunpur, Thana No. : 44, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.20 Ha).

(Proposal No. : SIA/JH/MIN/69026/2021).

Applied Area: 5.44 Acres (2.20 Ha)





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20	Nearest Air Port	:	KaziNazrul Islam Airport, Andal, PaschimBardhaman – 125km-SW
21	Nearest Forest	:	Protected Forest near Mohanpur – 4.75 Km- SE
22	Road & Highways	:	Pakka Road – 1.70 Kms. NH – 114 A – 2.90 Km - North

CO-ORDINATES

Point	Latitude	Longitude
1	24°36'31.46" N	87°49'07.59" E
2	24°36'31.51" N	87°49'06.09" E
3	24°36'31.02" N	87°49'05.72" E
4	24°36'31.08" N	87°49'04.75" E
5	24°36'31.05" N	87°49'03.24" E
6	24°36'33.07" N	87°49'04.08" E
7	24°36'34.78" N	87°49'04.87" E
8	24°36'37.28" N	87°49'05.58" E
9	24°36'38.76" N	87°49'06.08" E
10	24°36'38.90" N	87°49'05.53" E
11	24°36'40.09" N	87°49'05.91" E
12	24°36'40.08" N	87°49'06.81" E
13	24°36'39.81" N	87°49'07.72" E
14	24°36'39.11" N	87°49'07.81" E
15	24°36'38.99" N	87°49'09.44" E
16	24°36'38.53" N	87°49'09.54" E
17	24°36'38.38" N	87°49'08.70" E
18	24°36'38.02" N	87°49'08.67" E
19	24°36'38.01" N	87°49'09.19" E
20	24°36'36.30" N	87°49'08.91" E
21	24°36'35.82" N	87°49'08.57" E
22	24°36'35.71" N	87°49'08.19" E
23	24°36'33.60" N	87°49'08.07" E

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Land Details

Mouza	Khata No.	Plot No.
Bishunpur	8	915, 916, 917, 918, 919, 920, 921, 936, 937, 938, 939, 940, 1044 (P)
	37	941, 942, 947

STATUTORY CLEARANCES :

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 2035 /M dated 17.11.2020
2	CO	: The CO, Pakur vide letter no. 131, dated 17.02.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	: DMO, Pakur vide memo no. 188/M, dated 20.02.2021 certified that 05 other lease area (6.83 acre, 8.25 acre, 5.18 acre, 2.00 acre & 10.50 acre) exists within 500 m radius from proposed project site and total area is 38.20 acre (15.46 Ha).
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 108 , dated 10.01.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Division vide letter no. 840, dated 22.05.2020 certified that the distance of reserved / protected forest is more than 250 metre from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Pakur vide letter no. 878/ M, dated 21.06.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 03.03.2020
8	Mine Plan Approval	: Letter No. 51/G dated 15.02.2022

WORKING DETAILS

1	Mining Method	: Opencast Mechanized Mining
2	Quarry Area	: 5 years- 1.48 ha Life of Mine - 1.50 ha
3	Waste Generation	: 5 years- 42,480 Cum Life of Mine - 42,480 Cum
4	Stripping Ratio	: 1:0.02
5	Working Days	: 300 days/year

6	Benches: size & No	:	5m x 5m
7	Elevation of Mine	:	In 112 MSL to 110 MSL
8	Ground Level Elevation	:	In 110 MSL
9	Ultimate Working Depth	:	In 82 MSL
10	Water Table	:	In 81 MSL and also 29 m bgl
11	Topography of Mine	:	Undulating
12	Explosive Requirement	:	Yes- No. of holes: 8/day; Explosive: Slurry- 66.8 Kg/Day
13	Diesel/Fuel requirement	:	Diesel required only for Mining machinery operation and Tippers/trucks for transportation.

PRODUCTION DETAILS

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cubic meters	
1st Year	1,34,640	3,90,456	24840	57 – 56 (O.B.) 56 – 47 (Stone)
2nd Year	1,36,440	3,95,676	17640	56 – 55 (O.B.) 52 – 45 (Stone)
3rd Year	1,34,640	3,90,456	0	52- 42 (Stone)
4th Year	1,42,740	4,13,946	0	47 – 42 (Stone)
5th Year	1,34,640	3,90,456	0	42 – 37 (Stone)
Total	6,83,100	19,80,990	42,480	Depth- 20 m

LAND USE

Existing Land Use pattern

Category	Area in Hectares
Quarry	0.00
Road	0.00
Total area in use	0.00
Balance area unused	2.20
Total Leasehold area	2.20

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry	1.48
Dump	0.01
Mining Road	0.02

Road	0.02
Garland Drain/ Safety zone/ Settling Tank	0.58
Total area in use	2.11
Unutilized	0.09
Total Leasehold area	2.20

Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Quarry+ mining road	1.50 Water Body – 1.50 Ha. (To be Converted to Water Body after reducing the depth partially)
Garland Drain/ Safety Zone/ Settling Tank	0.58 (Plantation)
Dump + office	0.03 (Plantation)
Total area in use	2.11
Unutilized	0.09
Total Leasehold area	2.20

ENVIRONMENT MANAGEMENT

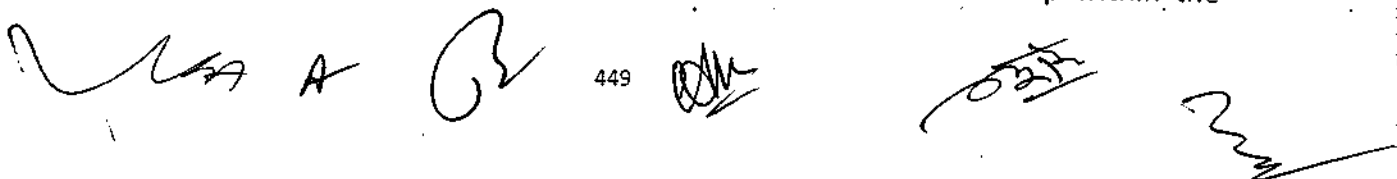
Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.58 Ha	1450
2	Other Reclaimed Area	: 0.03	75
3	Haul /Approach Road	: 1700 meter	1134 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

A total of 42,480 Cum. of wastes (Over Burden) will be generated from entire Bishunpur Stone Mine up to conceptual stage will be dumped in the waste dump within the



mining lease area in 0.02 Ha. waste dump area inside the lease. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance.

Water Pollution Control Measures:

- Negligible impact envisaged on surface water and ground water due to mining as no discharge of effluent or intersection of ground water.
- No major surface water body within 1 km radius of the project site.
- Garland drain & settling tank will be constructed around dump for arresting run-off, it will be integral part of rainwater harvesting system.
- Post-project the quarry area will serve as reservoir, which will be source of water for the nearby areas.

Air and Noise Pollution Control Measures:

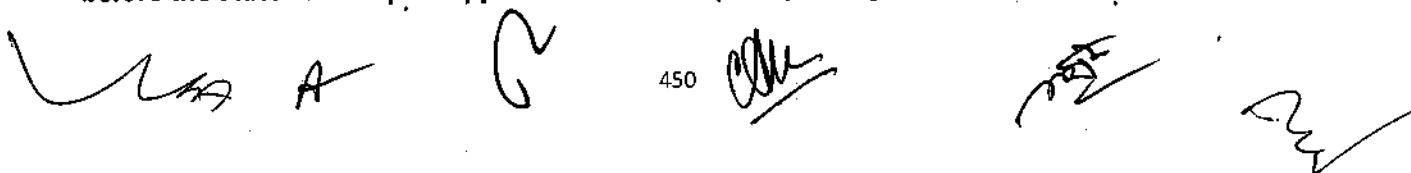



- Water sprinkling shall be done on the haul roads.
- Plantation to be done in the safety zone develop a green belt along the ML boundary.
- Sharp drill will be used and wet drilling will be followed.
- Controlled blasting- Nonel technology will be used.
- Overloading will be prohibited while transporting. Water sprinkling will be taken up.
- Plantation along transportation route will be done.
- Regular monitoring of Air quality & PUC for vehicle will be carried out.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The road side plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles will be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Baseline data generation has been done period October, 2021 to December, 2021.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19,

 450   

20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

Day 7 : February 24th , 2022 [Thursday]

Consideration of Proposals

1. Jaidiha Stone Deposit of Smt. Asha Rani Tete, Village : Jaidiha, P.S. : Ormanjhi, Dist. : Ranchi, Jharkhand (0.708 Ha).

(Proposal No. : SIA/JH/MIN/254118 /2022).

Project Category: B2 – Application

EC Application for: Boulder Stone : 7,879.30 Cu.M. / year i.e. 21,274.11 TPA

DG Set : 10 KVA

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 24.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Jaidiha Stone Deposit, Project Type – Stone Mine
2	Lessee:	: Proprietor – Smt. Asha Rani Tete
3	Lease Address	: Village – Jaidiha, P.S. - Ormanjhi, Dist. – Ranchi, State – Jharkhand.
4	Lease Area	: Ha: 0.708 ha Acres: 1.75 Acres
	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Capital Cost – 57.40 Lakhs
7	EMP Budget	: Capital: 11.5725 Lakhs Recurring: 01.79 Lakhs
8	CSR / CER Budget	: 1.90 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 78,546 Cu. M. Tonnes: 2,12,074.20 Tonnes
11	Mine Life	: 10 years approx
12	Man power	: 22
13	Water Requirement	: 10.96 KLD (Drinking:0.33 KLD, Dust Suppression: 4.8 KLD, Plantation:5.83 KLD
14	Water Source	: Water will be sourced from Abandoned Mine through Water Tanker for Dust Suppression and Plantation. Water will be sourced from Bore Well within the lease area for Drinking and Domestic Consumption.

15	DG Set / power	: 10 KVA DG Set proposed
16	Crusher	: NA
17	Nearest Water Body	: Bhera River 0.90 KM
18	Nearest Habitation	: Jaidiha Village: 0.60 Km, Ranchi 30 KM
19	Nearest Rail Station	: Ramgarh Cant Railway station – 10.40 km – NW
20	Nearest Air Port	: Ranchi Airport – 31.70 km – SW
21	Nearest Forest	: Protected Forest – 1.45 Km
22	Road & Highways	: Pakka Road – 0.16 Km – North, N.H. -33 – 4.20 Km – West

CO-ORDINATES

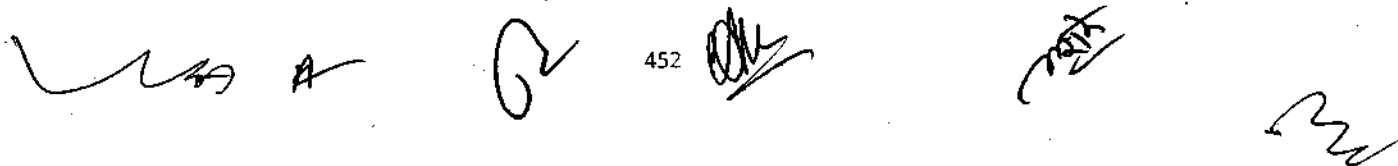
Point No.	Latitude	Longitude
1	23° 31' 31.9829" N	85° 32' 20.5838" E
2	23° 31' 31.5647" N	85° 32' 20.8856" E
3	23° 31' 30.5788" N	85° 32' 20.5127" E
4	23° 31' 29.4457" N	85° 32' 21.3442" E
5	23° 31' 28.0933" N	85° 32' 20.9818" E
6	23° 31' 28.6943" N	85° 32' 20.2178" E
7	23° 31' 29.1491" N	85° 32' 18.7755" E
8	23° 31' 29.8069" N	85° 32' 18.8779" E
9	23° 31' 29.4529" N	85° 32' 19.4028" E
10	23° 31' 30.1379" N	85° 32' 19.1548" E
11	23° 31' 30.2721" N	85° 32' 18.5082" E
12	23° 31' 30.3979" N	85° 32' 18.1188" E
13	23° 31' 32.3703" N	85° 32' 18.4261" E
14	23° 31' 32.0786" N	85° 32' 19.5976" E

LAND DETAILS

Mouza	Khata No.	Plot No.
Jaidiha	45	1099

STATUTORY CLEARANCES

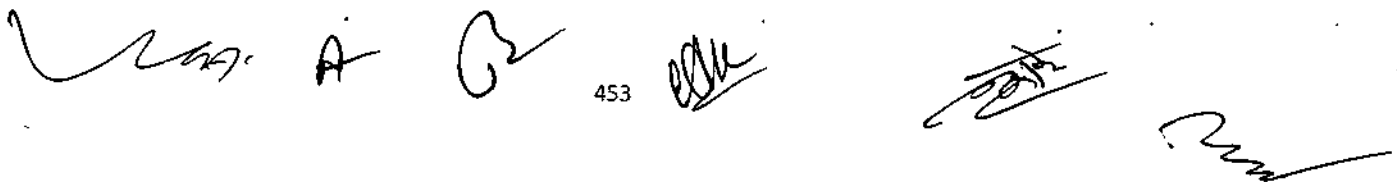
1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Ranchi, vide letter no. 885 /M dated 25.10.2021
2	CO	: The CO, Ormanjhi (Ranchi) vide letter no. 766 (ii), dated 15.12.2020 has mentioned the plot no. of the project is not recorded as


 A series of handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, a signature in the center, and several other initials and marks on the right.

			"Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Ranchi vide memo no. 1028/M, dated 11.12.2021 certified that no lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Ranchi vide letter no. 1082, dated 06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Ranchi Division vide letter no. 263, dated 22.01.2021 certified that the distance of notified forest is more than 250 metre from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Ranchi vide letter no. 1161/ M, dated 30.12.2021 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 02.01.2021
8	Mine Plan Approval	:	Letter No. 747/G dated 01.11.2021

Working Details

1	Mining Method	:	Semi Mechanised. Wagon Drilling & Blasting to be used
2	Quarry Area	:	5 years – 0.257 Ha End of Mine – 0.400 Ha
3	Waste Generation	:	5 years – 3,640 Cu.M Life of Mine (Waste Gen.) – 3,640 Cu.M
4	Stripping Ratio	:	1:0.03
5	Working Days	:	300
6	Bench: size & No	:	6 m x more than 6 m, Bench No.- 1 to 2
7	Elevation of Mine	:	Maximum Elevation – 634 AMSL Minimum Elevation – 622 AMSL
8	Ground Level Elevation	:	622 AMSL
9	Ultimate Working Depth	:	617 AMSL
10	Water Table	:	602 AMSL (20 m bgl)
11	Topography of Mine	:	Undulating Terrain
12	Explosive Requirement	:	6.3 Tons/year
13	Diesel/Fuel requirement	:	386 KL/year (115.8 Litres/day)



Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cubic meters	
1st Year	7,854.60	21,207.42	3,328.00	A - A' : 578 - 575 (Stone) A - A' : 578 - 575 (O.B.)
2nd Year	7,879.30	21,274.11	312.00	A - A' : 575 - 569 (Stone) A - A' : 575 - 572 (O.B.)
3rd Year	7,805.20	21,074.04	0	A - A' : 575 - 569 (Stone)
4th Year	7,869.42	21,247.43	0	A - A' : 575 - 569 (Stone)
5th Year	7,844.72	21,180.74	0	A - A' : 569 - 563 (Stone)
Total	39,253.24	1,05,983.74	3,640.00	Depth - 15 m

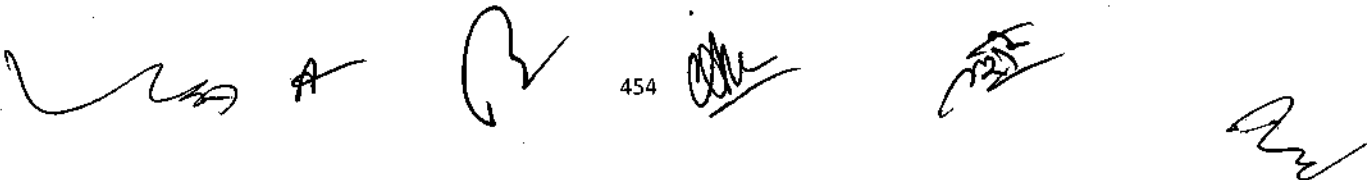
Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	Nil
Road	Nil
Waste Dump	Nil
S.Z. Plantation	Nil
Total area in use	0.708
Balance unused area	0.00
Total Applied Lease Area	0.708

Land Use Pattern after Proposed Plan Period of Five Years:

Category	Area in Hectares
Quarry	0.257
Road	0.002
Waste Dump	0.143
S.Z. Plantation	0.306
Total area in use	0.708
Balance unused area	0.000
Total Applied Lease Area	0.708


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Land Use Pattern after Life of the Mine:

Category	Area in Hectares
Quarry	0.400 (Water body after reducing the depth partially)
Road	0.002
Waste Dump	Nil (Waste dump to be removed and backfilled)
S.Z. Plantation	0.306 (Plantation)
Total area in use	0.708
Balance unused area	0.000
Total Applied Lease Area	0.708

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.306 ha	765 trees @ 2500 trees per ha
2	Haul /Approach Road	: 0.60 KM	400 trees on both sides – 3 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Waste Generation

A total of 3,640 cum of wastes (Over Burden) will be generated from entire Jaidiha Stone Deposit up to conceptual stage. Year-wise waste generation during the planned period is given below:

Table 3.7: Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	3,328.00
2 nd Year	312.00
3 rd Year	0
4 th Year	0
5 th Year	0
Total	3,640.00

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Source: Mining Plan

Disposal of Waste from the Quarry

There is only 3,640 cum overburden will be generated in mining plan period which will be used for backfilling and maintenance of mine road and village road.

Water Quality Management

- Mining is planned to be above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any, shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in the garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any, shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission.
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask etc shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

Undertaking submitted affirming:

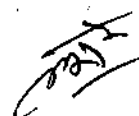
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.

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- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Jaidiha Stone Deposit of Smt. Asha Rani Tete, Village : Jaidiha, P.S. : Ormanjhi, Dist. : Ranchi, Jharkhand (0.708 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

2. Hotap Stone Mine of M/s Maa Utkarsini Construction & Mines Pvt. Ltd., Mouza : Hotap, P.S. : Dumri, Thana no. : 25, Dist. : Gumla, Jharkhand (1.58 Ha).

(Proposal No. : SIA/JH/MIN/243485/2021).

Applied Area: 3.91 Acres (1.58 Ha)

Project Category: B2 – Application for Environment Clearance

EC Application for: Stone : 1,17,300 TPA ~ 43,444.44 m³/yr;

Waste : 1,387 Cum O.B.

DG Set : 10 KVA

Crusher : Proposed in Mine Site

Name of the consultant : Sathi Planners Pvt. Ltd.

This is a new project which has been taken for appraisal on 24-02-2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Hotop Stone Mine Project Type – Stone Mine & Crusher (100 TPH)
2	Lessee:	: Maa Utkarshini Construction & Mines Pvt. Ltd. Director of Sri Himanshu Kumar & Payal Kumari
3	Lease Address	: Mouza – Hotap, Thana – Dumri No.- 25 , District – Gumla, State - Jharkhand
4	Lease Area	: Ha: 1.58 Acres: 3.91

5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	Rs. 62.85 Lakhs
7	EMP Budget	:	Capital: Rs. 5.425 Lakhs Recurring: Rs.-1.69 Lakhs/ year
8	CSR / CER Budget	:	Rs. 1.17 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 484500 Cu. M. Tonnes: 1308150
11	Mine Life	:	11 Years Only
12	Man power	:	15 Person
13	Water Requirement	:	7.765 KLD water shall be required for the project (Dust Suppression – 1.44 KLD, Drinking & Domestic- 0.225 KLD, Green Belt – 6.1 KLD)
14	Water Source	:	<ul style="list-style-type: none"> Water will be Sourced from Pond at a distance of 2.00 Km from Abandoned Mine through Water Tanker for Dust Suppression and Plantation. Water will be sourced from Bore Well through hired tankers from the nearby settlement Hotap from the Mine lease area.
15	DG Set / power	:	10 KVA D.G. Set Proposed
16	Crusher	:	Proposed
17	Nearest Water Body	:	Naugain Reservoir- 7.5 km.- SE
18	Nearest Habitation	:	Hotap- 0.7 Kms. in S.
19	Nearest Rail Station	:	Chhipadohar Railway station – 55.0 km – N
20	Nearest Air Port	:	Ranchi Airport, Durgapur – 118 km – E
21	Nearest Forest	:	As per forest division. Letter no – 2043 Dt- 21-10-2020
22	Road & Highways	:	SH-09– 2.00 Km – NE

CO-ORDINATES :

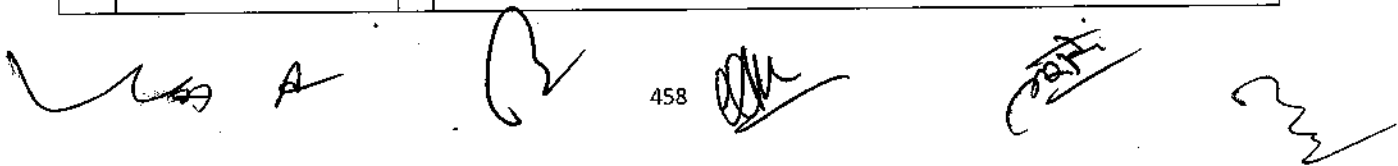
Latitude	Longitude
23°19'15.63"N	84°10'21.48"E
To	To
23°19'19.66"N	84°10'24.44"E

LAND DETAILS

Mouza	Khata No.	Plot No.
Hotap	05	768

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DC, Gumla vide letter
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		no. 1021 /M dated 06.10.2021
2	CO	: The CO, Dumri vide letter no. 314 (ii), dated 12.11.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyar & Register II.
3	DMO	: DMO, Gumla vide memo no. 1120/M, dated 28.10.2021 certified that no lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Ranchi vide memo no. 869 , dated 05.12.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Gumla Division vide letter no. 2043, dated 21.10.2020 certified that the distance of reserved / protected forest is more than 250 metre from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Gumla vide letter no. 1167/ M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) at Gumla district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 16.10.2020
8	Mine Plan Approval	: Letter No. 1117 dated 26.10.2021

Working Details :

1	Mining Method	: Opencast Mechanized Mining	
2	Quarry Area	: 5 years- 1.23 ha	Life of Mine - 1.23 ha
3	Waste Generation	: 5 years- 1,387 Cum.	Life of Mine - 11 Years
4	Stripping Ratio	: 1:0.002	
5	Working Days	: 300 days/year	
6	Bench: size & No	: 6m x 6m	
7	Elevation of Mine	: 955 AMSL to 950 AMSL	
8	Ground Level Elevation	: 950 MSL	
9	Ultimate Working Depth	: 915 MSL	
10	Water Table	: 897 MSL and also 53 m bgl	
11	Topography of Mine	: Undulating Terrain	
12	Explosive Requirement	: Yes- No. of holes: 4/day; Explosive: Slurry- 69 Kg/Day	
13	Diesel/Fuel requirement	: Diesel required only for Mining machinery operation and Tippers/trucks for transportation.	

Production details







Year	Production of Stone	Over Burden (OB)	Bench RL in meters
	459		

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	Cubic meters	Tons	Cubic meters	
1st Year	43,444.44	1,17,300	1387	896.890
2nd Year	43,444.44	1,17,300	0	896.890
3rd Year	43,444.44	1,17,300	0	896.890
4th Year	43,444.44	1,17,300	0	896.890
5th Year	43,444.44	1,17,300	0	896.890
Total	2,17,222.2	1,05,983.74	1387	Depth – 24 m

LAND USE

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.000	1.23	1.25	(Water Body) 1,387 Cum. of O.B. will be used first for backfilling and after reducing the depth it will be converted into water body
2	Crusher	0.000	0.01	0.00	-
3	Dump	0.00	0.00	0.00	-
4	Road	0.000	0.01	0.00	-
5	Garland Drain	0.000	0.04	0.04	-
6	Safety Zone	0.00	0.28	0.28	Plantation
7	Settling Tank	0.00	0.02	0.02	-
8	Unutilized	1.58	0.00	0.00	-
	TOTAL	1.58	1.58	1.58	-




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ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.28 Ha	700
2	Other Reclaimed Area	: 0.08	200
3	Haul /Approach Road	: 180 meter	120 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

No waste generate in plan period.

Water Pollution Control Measures:

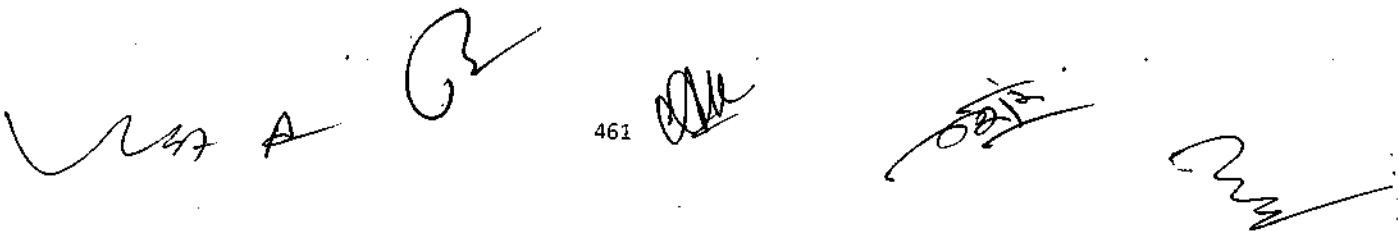
- Negligible impact envisaged on surface water and ground water due to mining as no discharge of effluent or intersection of ground water.
- No major surface water body within 1 km radius of the project site.
- Garland drain & settling tank will be constructed around dump for arresting run-off, it will be integral part of rainwater harvesting system.
- Post-project the quarry area will serve as reservoir, which will be source of water for the nearby areas.

Air and Noise Pollution Control Measures:

- Water sprinkling shall be done on the haul roads.
- Plantation to be done in the safety zone develop a green belt along the ML boundary.
- Sharp drill will be used and wet drilling will be followed.
- Controlled blasting- Nonel technology will be used.
- Overloading will be prohibited while transporting. Water sprinkling will be taken up.
- Plantation along transportation route will be done.
- Regular monitoring of Air quality & PUC for vehicle will be carried out.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.

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- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The road side plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles will be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal Hotap Stone Mine of M/s Maa Utkarsini Construction & Mines Pvt. Ltd., Mouza : Hotap, P.S. : Dumri, Thana no. : 25, Dist. : Gumla, Jharkhand (1.58 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

3. Khaprajola Stone Mine of Shri Shyam Madhyan, Village : Khaprajola, Tehsil : Pakur, Dist. : Pakur, Jharkhand (3.31 Ha) .

(Proposal No. : SIA/JH/MIN/69881 /2021).

Project Category: B1 – Application for TOR

**EC Application for: Boulder Stone : 50,000 Cu.M. / year i.e. 1,35,000 TPA
DG Set : 20 KVA**

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

This is a new project which has been taken for appraisal on 24.02.2022.

PROJECT and LOCATION Details:

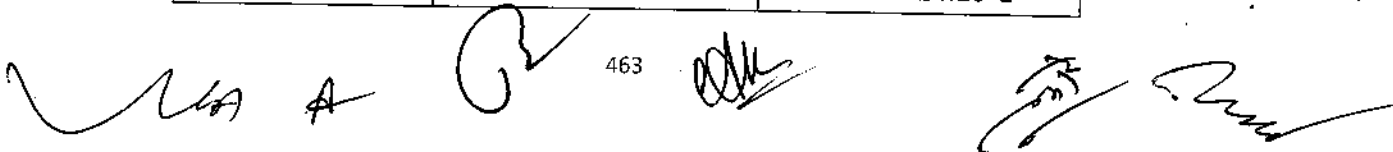
Sl	Parameter	Details
1	Project Name	: Khaprajola Stone Mine Project Type – Stone Mine Increase in Production From 36,439 Tons/ Year to 1,35,000 tons / Year up to 21.05.2024 (remaining period of lease)
2	Lessee:	: Shri Shyam Madhyan
3	Lease Address	: Mouza - Khaprajola, P.S.- Pakur, No. – 92, District – Pakur, Jharkhand
4	Lease Area	: Ha: 3.31 ha Acres: 8.19 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 105.40 Lakhs

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7	EMP Budget	:	Capital: 21.42 Lakhs	Recurring: 2.24 Lakhs
8	CSR / CER Budget	:	2.68 Lakhs	
9	New or Expansion	:	New Project	
10	Mineable Reserves	:	Cu.M.: 2,23,560 Cu. M.	Tonnes: 6,03,612Tonnes
11	Mine Life	:	6 years	
12	Man power	:	36	
13	Water Requirement	:	22.66 KLD (Drinking:0.54 KLD, Dust Suppression:8 KLD, Plantation:14.12 KLD)	
14	Water Source	:	<ul style="list-style-type: none"> Water will be Sourced from Pond at a distance of 200 m from Abandoned Mine through Water Tanker for Dust Suppression and Plantation. Water will be sourced from Bore Well through hired tankers from the nearby settlement (Khaprajola) which is 0.40 km (SW) from the Mine lease area. 	
15	DG Set / power	:	20 KVA	
16	Crusher	:	Na.	
17	Nearest Water Body	:	Ganga River 15.00 KM	
18	Nearest Habitation	:	Khaprajola Village: 0.40 KM; Pakur 5.00 KM	
19	Nearest Rail Station	:	Pakur Railway station – 4.5 km - NNE	
20	Nearest Air Port	:	Kazi Nazrul Islam Airport – 125 km - SW	
21	Nearest Forest	:	Protected Forest, Mohanpur - 3.70 Km	
22	Road & Highways	:	Malpahari road – 1 Km, NH -114 A-3.60 Km North	

CO-ORDINATES :

Geo-Coordinates		
Corner Point	Latitude	Longitude
P1	24° 35' 57.38"N	87° 50' 31.02"E
P2	24° 35' 57.87"N	87° 50' 29.45"E
P3	24° 35' 58.85"N	87° 50' 29.60"E
P4	24° 36' 01.45"N	87° 50' 30.78"E
P5	24° 36' 01.92"N	87° 50' 29.78"E
P6	24° 36' 00.96"N	87° 50' 29.13"E
P7	24° 35' 58.16"N	87° 50' 28.35"E
P8	24° 35' 58.57"N	87° 50' 26.60"E
P9	24° 35' 59.00"N	87° 50' 26.48"E
P10	24° 36' 02.84"N	87° 50' 27.80"E
P11	24° 36' 03.18"N	87° 50' 26.91"E
P12	24° 36' 03.06"N	87° 50' 25.60"E
P13	24° 36' 02.27"N	87° 50' 24.86"E
P14	24° 36' 01.91"N	87° 50' 23.57"E
P15	24° 36' 02.24"N	87° 50' 22.63"E
P16	24° 36' 02.53"N	87° 50' 22.68"E
P17	24° 36' 02.88"N	87° 50' 24.16"E



P18	24° 36' 03.74"N	87° 50' 25.19"E
P19	24° 36' 03.64"N	87° 50' 25.87"E
P20	24° 36' 04.13"N	87° 50' 27.31"E
P21	24° 36' 04.37"N	87° 50' 27.21"E
P22	24° 36' 04.70"N	87° 50' 27.52"E
P23	24° 36' 04.62"N	87° 50' 28.32"E
P24	24° 36' 04.37"N	87° 50' 28.78"E
P25	24° 36' 04.01"N	87° 50' 28.90"E
P26	24° 36' 03.76"N	87° 50' 30.33"E
P27	24° 36' 04.08"N	87° 50' 32.04"E
P28	24° 36' 03.79"N	87° 50' 32.16"E
P29	24° 36' 03.01"N	87° 50' 35.18"E
P30	24° 36' 00.13"N	87° 50' 34.03"E
P31	24° 36' 00.49"N	87° 50' 32.58"E
P32	24° 35' 59.10"N	87° 50' 31.88"E

LAND DETAILS

Mouza	Khata No.	Plot No.
Khaprajola	4	626
	6	622, 623, 624, 625
	10	627, 628, 629
	16	631
	17	634, 635, 636, 637
	20	633
	21	632

STATUTORY CLEARANCES

1	LOI/Lease docs	: Lease deed 22.05.2014 to 21.05.2024.
2	CO	: The CO, Pakur vide letter no. 739, dated 07.08.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	: DMO, Pakur vide memo no. 912/M, dated 02.08.2014 certified that 05 lease area exists within 500 m radius from proposed project site and total area is 9.21 ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 991, dated 14.06.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Division vide letter no. 800, dated 17.06.2014 certified that the distance of forest is more than 500 metre from proposed project site.

6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	:	On 12.08.2014
8	Mine Plan Approval	:	Memo No. 2132 dated 27.09.2018

Working Details

1	Mining Method	:	Semi Mechanised. Wagon, Drilling & Blasting to be used
2	Quarry Area	:	5 years – 2.23 Ha End of Mine – 2.34 Ha
3	Waste Generation	:	5 years – 7,283 Cum. Life of Mine – 7,283 Cu.M
4	Stripping Ratio	:	1:0.02
5	Working Days	:	300
6	Bench: size & No	:	6 m x 6 m, Bench No.- 1 to 7
7	Elevation of Mine	:	Elevation – 96 AMSL
8	Ground Level Elevation	:	96 m In AMSL
9	Ultimate Working Depth	:	18 mRL (71 m AMSL)
10	Water Table	:	63 m AMSL & also 33 m bgl
11	Topography of Mine	:	Undulating Terrain
12	Explosive Requirement	:	18.9 Tons/year
13	Diesel/Fuel requirement	:	688 KL/year (206.40 Litres/day)

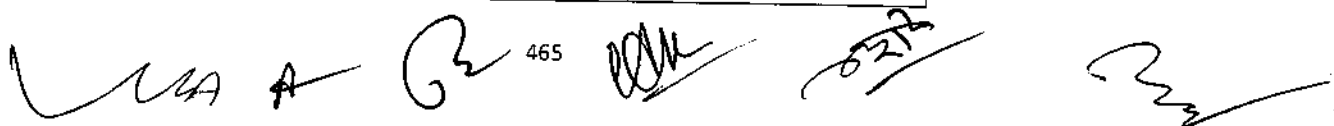
Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cum.	
6 th Year	50000	135000	4855	48 to 42 m (Stone) 42 to 36 m (Stone) 48 to 42 m (O.B.)
7 th Year	50000	135000	0	36 to 30 m (Stone) 30 to 24 m (Stone)
8 th Year	50000	135000	0	30 to 24 m (Stone) 24 to 18 m (Stone)
9 th Year	8333	22499	0	24 to 18 m (Stone)
Total	1,58,333	4,27,499	4855	Depth – 30 m

Land Use

Existing Land Use pattern

Category	Area in Hectares
----------	------------------


 A series of handwritten signatures and initials are present below the table, including 'A', 'B', '465', and several illegible signatures.

Quarry including road	1.39
Total area in use	1.39
Balance area unused	1.92
Total Leasehold area	3.31

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry including road	2.230
Plantation in Safety Barrier	0.970
Dump	0.070
Parapet Wall	0.005
Garland Drain	0.005
Total area in use	3.280
Total Leasehold area	3.310

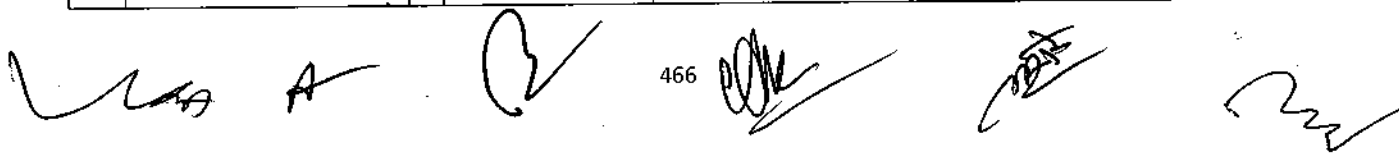
Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Quarry including backfilling & reservoir	2.34 (Water Body) 4855 Cum. of O.B. will be used first for backfilling and after reducing the depth it will be converted into water body
Green Belt in Safety Zone	0.97 (Plantation)
Total area in use	3.31
Balance area unused	0
Total Leasehold area	3.31

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.97 ha	2424 trees @ 2500 trees per ha
2	Other Reclaimed Area	: 0.10 Ha.	250 trees @ 2500 trees per Ha.
3	Haul /Approach Road	: 1 KM	400 trees on both sides – 5 m distance



- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- A total of 4,855 Cum of wastes (Over Burden) will be generated from entire Khaprajola Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Generation of Waste during Planned Period

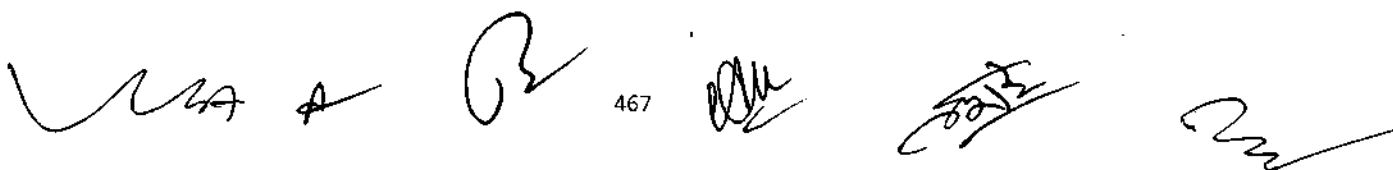
Year	Waste Generation, In Cum
6 th Year	4,855
7 th Year	0
8 th Year	0
9 th Year	0
Total	4,855

Disposal of Waste from the Quarry

- Over burden will be dumped in the waste dump within the mining lease area in 0.07 Ha. waste dump area inside the lease. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.


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Air Quality Management

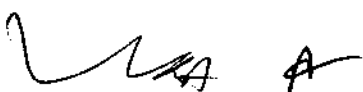
- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Baseline data generation has been done period October, 2021 to December, 2021.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.



18	Nearest Habitation	:	Katekewa- 1.2 Kms. in NW.
19	Nearest Rail Station	:	Taljhari Railway station – 6.0 km – NE
20	Nearest Air Port	:	Bhagalpur Airport – 72.0 km – WNW .
21	Nearest Forest	:	Protected Forest – 2.00 Km
22	Road & Highways	:	The State Highway (SH-18) is about 8.0 Km in W direction of project site

CO-ORDINATES

Toposheet : 72 O/12	
Latitude	Longitude
25°02'10.92"N	87°41'41.95"E
To	To
25°02'15.33"N	87°41'43.88"E

LAND DETAILS

Khata No.	Plot No.
09	44 (P)
09	45 (P)
04	74 (P)
01	75 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 419 /M dated 16.04.2021
2	CO	:	The CO, Taljhari vide letter no. 681, dated 11.10.2019 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Sahebganj vide memo no. 1144/M, dated 24.11.2021 certified that one lease area (6.90 acre) exists within 500 m radius from proposed project site and total area is 12.30 acre (less than 5 ha).
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2036 , dated 21.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Sahebganj Division vide letter no. 458, dated 22.02.2020 certified that the distance of reserved / protected forest is more than 250 metre from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Sahebganj vide letter no. 668/ M,

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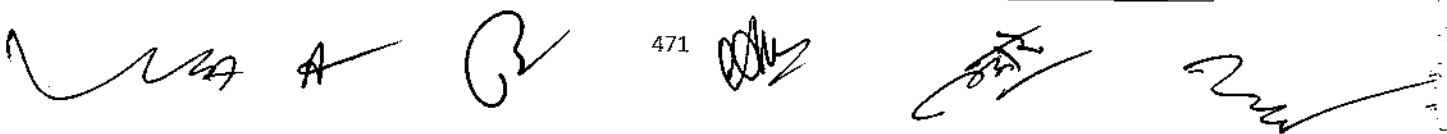

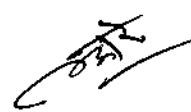

		dated 09.07.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 12.09.2019
8	Mine Plan Approval	: Letter No. 1132 dated 22.11.2021

WORKING DETAILS

1	Mining Method	: Opencast Mechanized Mining
2	Quarry Area	: 5 years- 1.48 ha Life of Mine - 1.75 ha
3	Waste Generation	: 5 years- 1,182 Cum. Life of Mine - 10 Years
4	Stripping Ratio	: 1:0.001
5	Working Days	: 300 days/year
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: In 279 MSL to 249 MSL
8	Ground Level Elevation	: In 249 MSL
9	Ultimate Working Depth	: In 225 MSL
10	Water Table	: In 219 MSL and also 30 m bgl
11	Topography of Mine	: Gently sloping
12	Explosive Requirement	: Yes- No. of holes: 3/day; Explosive: Slurry-207 Kg/Day
13	Diesel/Fuel requirement	: 194.4 Kt/year

PRODUCTION DETAILS

Year	Production of stone		Removal of Gritty soil in
	in Tonnes	in Cum	in Cum
1st	1,47,744.00	54,720.00	401
2nd	1,49,400.00	55,333.33	407
3rd	1,49,400.00	55,333.33	000
4th	1,49,400.00	55,333.33	374
5th	1,49,400.00	55,333.33	000


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Total	7,45,344.00	2,76,053.32	1182
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LAND USE

Existing Land Use Pattern

SL	Pattern	Present Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Quarry Area	Nil	1.48	1.75	Water Body
2	Greenbelt within safety barrier	Nil	0.42	0.42	Plantation
3	Road	0.00	0.01	-	-
4	Overburden Dump	Nil	0.14	-	-
5	Approach Road	Nil	0.00	0.01	-
6	Settling tank	Nil	0.02	0.00	-
7	Garland drain	Nil	0.05	0.00	-
8	Balance unused area	2.18	0.06	-	-
	TOTAL	2.18	2.18	2.18	-

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.42 Ha	760
2	Haul /Approach Road	: 360 meter	240 Tree both side approach road.

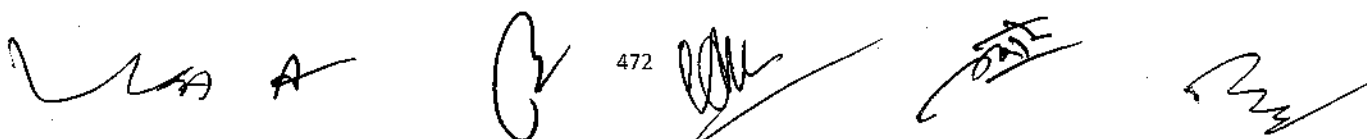
- Gabion Plantation work in the approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- 1,182.00 Cum overburden will be generated on the hill top, which will be used for construction of approach road.

Water Pollution Control Measures:

- Negligible impact envisaged on surface water and ground water due to mining as no discharge of effluent or intersection of ground water.


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- No major surface water body within 1 km radius of the project site.
- Garland drain & settling tank will be constructed around dump for arresting run-off, it will be integral part of rainwater harvesting system.
- Post-project the quarry area will serve as reservoir, which will be source of water for the nearby areas.

Air and Noise Pollution Control Measures:

- Water sprinkling shall be done on the haul roads.
- Plantation to be done in the safety zone develop a green belt along the ML boundary.
- Sharp drill will be used and wet drilling will be followed.
- Controlled blasting- Nonel technology will be used.
- Overloading will be prohibited while transporting. Water sprinkling will be taken up.
- Plantation along transportation route will be done.
- Regular monitoring of Air quality & PUC for vehicle will be carried out.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The road side plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles will be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

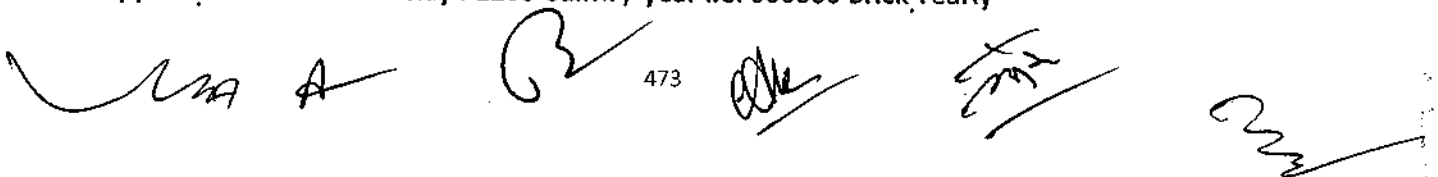
Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Katekewa Stone Mine of M/s Nirmal Jhunjunwala Stone Mines, Mouza : Katekewa (No. 39), Sub Division : Rajmahal, Dist. : Sahebganj, Jharkhand (2.18 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

5. Khoro Brick Clay Deposit of M/s Jai Thakur Baba Industries Pvt. Ltd., Village : Khoro, Tehsil : Tisri, Dist. : Giridih, Jharkhand (0.627 Ha).

(Proposal No. : SIA/JH /MIN/257431/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Brick Clay : 1200 Cu.M. / year i.e. 600000 Brick Yearly

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Waste : No Waste Generate

DG Set :N/A

Mobile Crusher : Not Required

Name of the consultant : Sathi Planners Pvt. Ltd.

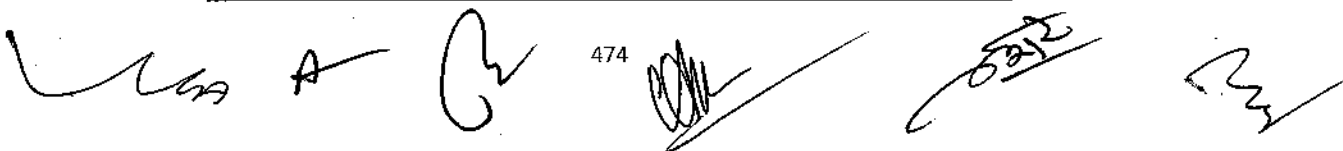
This is a new project which has been taken for appraisal on 24-02-2022

PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	: Khoro Brick Clay Mining	
2	Lessee:	: M/s Jai Thakur Baba Industries Pvt. Ltd., , Partner- Shri Dilip Kumar	
3	Lease Address	: Address – Chandaury, P.O. – Tisri P.S. - Tisri, District – Giridih. State – Jharkhand,	
4	Lease Area	: Ha: 0.627	Acres: 1.55
5	Type of Land	: Non Forest – Rayati Land	
6	Project Cost	: RS.- 16.35 Lakhs	
7	EMP Budget	: Capital: RS. - 6.50 Lakhs	Recurring: Rs- 1.30 Lakh / year Monitoring ; Rs. – 0.90 Lakh Year
8	CSR / CER Budget	: Rs.- 0.80 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 1200 Cu. M.	Tonnes: N/A
11	Mine Life	: 5 Years	
12	Man power	: 10 Person	
13	Water Requirement	: 2.54 KLD (Drinking:0.25 KLD, Dust Suppression: 0.81 KLD, Plantation: 1.48 KLD	
14	Water Source	: Water Tanker nearest Pond/water bodies	
15	DG Set / power	: Not Applicable	
16	Crusher	: Not Applicable	
17	Nearest Water Body	: Falgu Nadi - 3.28 km (N) Garhi Reservoir - 18 km NE	
18	Nearest Habitation	: Chandaury – 2.45 Km (WS)	
19	Nearest Rail Station	: Giridih Railway Station: 55 Km SE	
20	Nearest Air Port	: Birsa Munda, Airport, Ranchi 165 km SE direction from the mine site.	
21	Nearest Forest	: Giridih forest division. Letter no – 322, Dt- 11-02-2021	
22	Road & Highways	: NH-31 – 50 Km (SW) SH-18 – 24 Km (NW)	

CO-ORDINATES :

Toposheet : 72L/2	
Latitude	Longitude
24°37'48.14" N	86°04'52.43" E

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To	To
24 ⁰ 37'44.82" N	86 ⁰ 04'52.84" E

Land Details :

Mouza	Khata No.	Plot No.
Khoro	09	133, 135, 136

STATUTORY CLEARANCES

1	LOI/Lease docs	:	Land agreement with Owner 5 Years
2	CO	:	The CO, Tisri vide letter no. 27, dated 21.01.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in Register II.
3	DMO	:	DMO, Giridih vide memo no. 839/M, dated 23.09.2021 certified that one other lease area (10.67) exists within 500 m radius from proposed project site and total area is 12.22 acre (less than 5 ha).
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2066 , dated 28.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Giridih East Division vide letter no. 322, dated 11.02.2021 certified that the distance of reserved / protected forest is more than 250 metre from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Giridih vide letter no. 70/ M, dated 29.01.2022 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 11.01.2021
8	Mine Plan Approval	:	Letter No. 709 / G dated 08.10.2021

Working Details

1	Mining Method	:	Manual Method Mining
2	Quarry Area	:	5 years – 0.330
3	Waste Generation	:	5 years– Nil
4	Stripping Ratio	:	NA
5	Working Days	:	200
6	Benches: size & No	:	1m x 1m

7	Elevation of Mine	:	In 318 MSL
8	Ground Level Elevation	:	In 317 MSL
9	Ultimate Working Depth	:	In 315 MSL
10	Water Table	:	In 298-300 MSL and also bgl
11	Topography of Mine	:	Flat area
12	Explosive Requirement	:	Not Applicable
13	Diesel/Fuel requirement	:	Not Required

Production Details

Year	Production of stone in CUM	Top soil Removal in CUM
1st	1200	700
2nd	1200	
3rd	1200	
4th	1200	
5th	1200	
Total	6000	700

Land Use

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Quarry Area	0.000	0.330	0.350	Land Cultivation
2	Safety Barrier / Berm Area	0.000	0.297	0.297	Plantation
3	Brick Kiln	0.000	0.083	0.083	Brick Kiln
4	Unutilized	0.627	0.020	0.000	-
	TOTAL	0.627	0.627	0.627	-

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.297 Ha	Grass Cultivation
2	Other Reclaimed Area	: 0.00	No
3	Haul /Approach Road	: 20 meter	25 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Top soil Generation will be 700 Cu.M. during the life of Mine. Top soil storage is 0.01 ha. The Top soil shall be used backfill after end of life of the mine.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 2m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

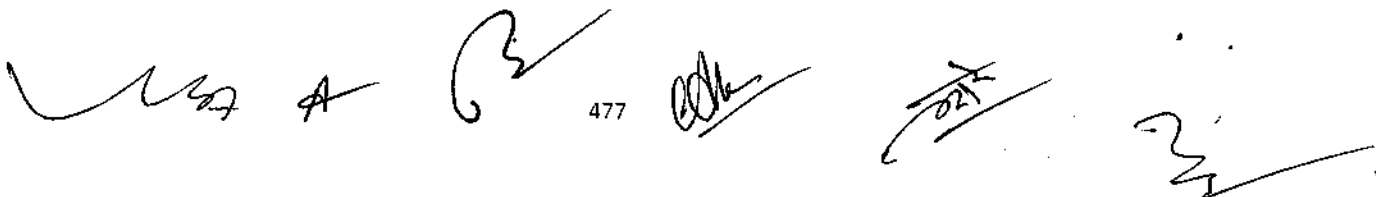
- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.



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		Plantation: 4.24 KLD
14	Water Source	: Through Water Tanker –nearby spring/Nala & Wells
15	DG Set / power	: 20 KVA D.G. Set proposed
16	Crusher	: Not Applicable
17	Nearest Water Body	: Ganga River - 15.85 Km (N) Spring – 0.80 Km (EN)
18	Nearest Habitation	: Sahebganj 6.25 km EN direction from the mine site.
19	Nearest Rail Station	: Sahebganj Railway Station 6.50 km EN direction from the mine site.
20	Nearest Air Port	: Birsa Munda Airport, Ranchi 345 km SW direction from the mine site.
21	Nearest Forest	: As per forest division. Letter no – 1737 Dt- 10-09-2018
22	Road & Highways	: NH-33 – 3.79 Km (N) SH-18 – 8.46 Km (E)

CO-ORDINATES

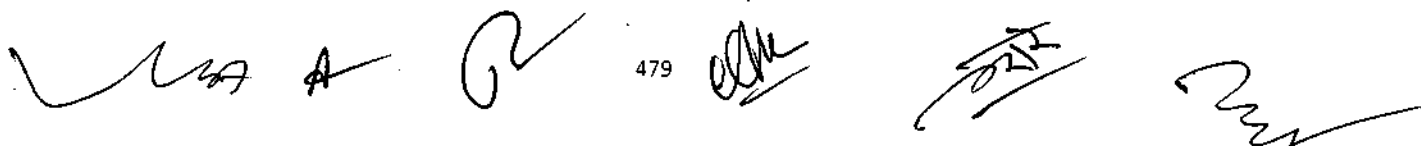
Toposheet : 72 O/12	
Latitude	Longitude
25012'59.50" N	87034'29.70" E
To	To
25012'52.90" N	87034'32.28" E

Land Details :

Mouza	Khata No.	Plot No.
Chuwa	17	8 (P) & 10

STATUTORY CLEARANCES

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 1130 /M dated 20.11.2021
2	CO	: The CO, Mandro vide memo no. 264, dated 26.05.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	: DMO, Sahebganj vide memo no. 1256/M, dated 30.12.2021 certified that no other lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, In-Charge Wildlife Sanctuary, Udhwa (Sahebganj) vide letter no. 102 , dated 12.01.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed



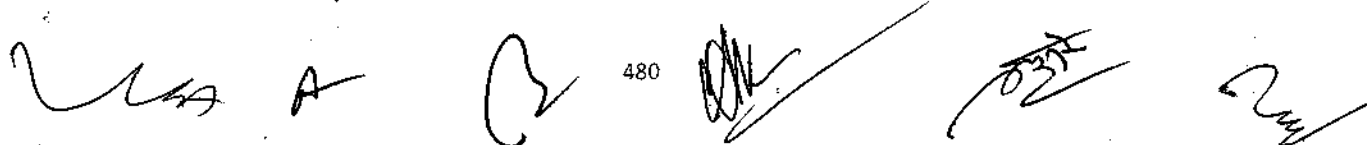
		project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Sahebganj Division vide memo no. 1737, dated 10.09.2018 certified that the distance of forest is 260 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Sahebganj vide letter no. 146/ M, dated 17.02.2022 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 14.02.2020
8	Mine Plan Approval	: Letter No.1248 , dated 29.12.2021

WORKING DETAILS

1	Mining Method	: Opencast Mechanized Mining
2	Quarry Area	: 5 years– 1.88 ha Life of Mine – 1.88 ha
3	Waste Generation	: 5 years– No Life of Mine – 28 Years
4	Stripping Ratio	: --
5	Working Days	: 300 days/year
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: In 226 MSL to 214 MSL
8	Ground Level Elevation	: In 214 MSL
9	Ultimate Working Depth	: In 165 MSL
10	Water Table	: In 160 MSL and also 5-10 m bgl
11	Topography of Mine	: Hilly sloping
12	Explosive Requirement	: Yes- No. of holes: 2/day; Explosive: Slurry-69 Kg/Day
13	Diesel/Fuel requirement	: Diesel required only for Mining machinery operation and Tippers/trucks for transportation.

PRODUCTION DETAILS

Year	Production of stone		Removal of Gritty soil in	
	in Tonnes	in TCum	in Tonnes	in Cum
1st	148500	55000	0	0
2nd	148500	55000	0	0
3rd	148500	55000	0	000
4th	148500	55000	0	000
5th	148500	55000	0	000


 A B 480 037

Total	742500	27500 0	0	0
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LAND USE

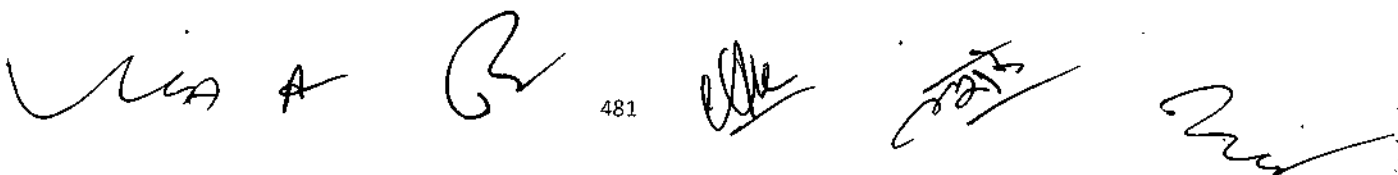
SL	Pattern	Present Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Quarry Area	Nil	1.880	1.932	Water Body
2	Greenbelt within safety barrier	Nil	0.980	0.980	Plantation
3	Road	0.00	0.040	-	-
4	Infrastructure	Nil	0.001	-	-
5	Approach Road	Nil	0.011	-	-
6	Settling tank	Nil	0.010	0.010	-
7	Garland drain	Nil	0.011	0.011	-
8	Balance unused area	2.93	0.00	-	-
	TOTAL	2.93	2.93	2.93	-

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.98 Ha	1960
2	Other Reclaimed Area	: 0.00	No
3	Haul /Approach Road	: 490 meter	160 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment &



Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- No Waste Generation during the life of Mine.

Water Pollution Control Measures:

- Negligible impact envisaged on surface water and ground water due to mining as no discharge of effluent or intersection of ground water.
- No major surface water body within 1 km radius of the project site.
- Garland drain & settling tank will be constructed around dump for arresting run-off, it will be integral part of rainwater harvesting system.
- Post-project the quarry area will serve as reservoir, which will be source of water for the nearby areas.

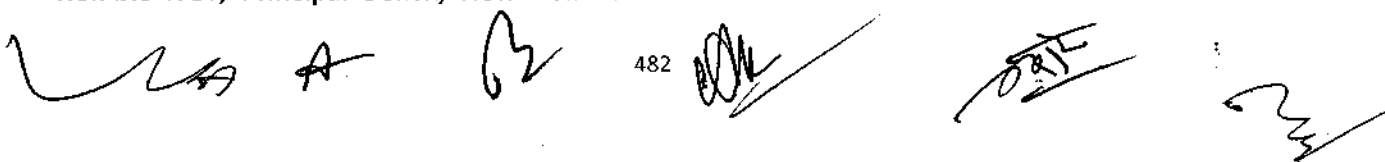
Air and Noise Pollution Control Measures:

- Water sprinkling shall be done on the haul roads.
- Plantation to be done in the safety zone develop a green belt along the ML boundary.
- Sharp drill will be used and wet drilling will be followed.
- Controlled blasting- Nonel technology will be used.
- Overloading will be prohibited while transporting. Water sprinkling will be taken up.
- Plantation along transportation route will be done.
- Regular monitoring of Air quality & PUC for vehicle will be carried out.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The road side plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles will be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated

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12.12.18 decided that the proposal for Chuwa Stone Deposit of M/s Shyam Stone Works of Sri Ved Prakash Khudania, Village : Chuwa, Thana : Sakrogarh, Thana No. 8, Dist. : Sahebganj, Jharkhand (2.93 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Gadwa Stone Deposit of M/s Mahalaxmi Crusher & Logistics, Mouza : Gadwa, P.O. : Sakrigali, P.S : Taljhari, Dist. : Sahebganj, Jharkhand (2.832 Ha).

(Proposal No. : SIA/JH/MIN/68943/2021).

Project Category: B1- Application

EC Application for: Boulder Stone : 67,792 Cu.M. / year i.e. 1,69,480 TPA
DG Set : 20 KVA

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	Gadwa Stone Deposit Project Type – Stone Mine & Crusher (100 TPH Capacity)
2	Lessee:	M/s Mahalaxmi Crusher and Logistics Partner – Shri Sanjay Prasad Yadav & Others
3	Lease Address	Village – Gadwa, P.O.- Sakrigali, P.S.- Taljhari, Dist. – Sahibganj, State – Jharkhand
4	Lease Area	Ha: 2.832 ha Acres: 7.00 Acres
	Type of Land	Non Forest – Rayati Land
6	Project Cost	Capital Cost – 87.55 Lakhs
7	EMP Budget	Capital: 24.03 Lakhs Recurring: NA
8	CSR / CER Budget	2.25 Lakhs (Proposed)
9	New or Expansion	New Project
10	Mineable Reserves	Cu.M.: 6,77,920 Cu. M. Tonnes: 16,94,800 Tonnes
11	Mine Life	10 Years
12	Man power	37
13	Water Requirement	33.76 KLD (Drinking:0.56 KLD, Dust Suppression: 14.40 KLD, Plantation: 18.8 KLD)
14	Water Source	<ul style="list-style-type: none"> Water will be Sourced from Abandon Mine for Dust Suppression and Plantation. Water will be sourced from Bore Well (within lease area) for Drinking and Domestic Consumption.
15	DG Set / power	25 KVA DG Set proposed
16	Crusher	Crusher (100 TPH Capacity)
17	Nearest Water Body	Ganga River 2.80 KM
18	Nearest Habitation	Gadwa Village: 0.50 Km, Sahebganj 7.57 KM

19	Nearest Rail Station	:	Sakrigali Railway Station- 2.26 Km (aerial distance) –NW
20	Nearest Air Port	:	Kazi Nazrul Islam Airport – 184.34 km – SW
21	Nearest Forest	:	Dense mixed Jungle – 4.80 Km
22	Road & Highways	:	NH 80 – 1.80 Km in NE direction.

CO-ORDINATES

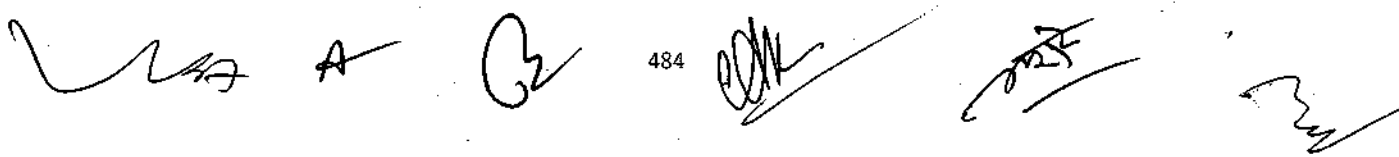
Geo-Coordinates		
Corner Point	Longitude	Latitude
1	25° 13' 21.73" N	87° 43' 10.70" E
2	25° 13' 25.17" N	87° 43' 07.49" E
3	25° 13' 30.51" N	87° 43' 13.83" E
4	25° 13' 28.92" N	87° 43' 15.23" E

Land Details :

Mouza	Khata No.	Plot No.
Gadwa	01	44 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 107 /M dated 03.02.2020
2	CO	:	The CO, Taljhari vide letter no. 262, dated 29.05.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Sahebganj vide memo no. 2045/M, dated 03.11.2018 certified that 04 other lease area (11.00 acre, 5.76 acre, 12.30 acre and 25.00 acre) exists within 500 m radius from proposed project site and total area is more than 5 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 397 , dated 17.02.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Sahebganj Division vide memo no. 2364, dated 18.12.2018 certified that the distance of forest is 253 m from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Sahebganj district.



7	Gram Sabha	: On 23.07.2018
8	Mine Plan Approval	: Letter No.594 , dated 08.05.2020

Working Details

1	Mining Method	: Semi Mechanised. Wagon Drilling & Blasting to be used
2	Quarry Area	: 5 years – 2.190 Ha End of Mine – 2.215 Ha
3	Waste Generation	: 5 years– 68,970 Cu.M Life of Mine (Waste Gen.) – 68,970 Cu.M
4	Stripping Ratio	: 1:0.08
5	Working Days	: 300
6	Bench: size & No	: 6 m x more than 6 m, Bench No.- 1 to 11
7	Elevation of Mine	: Maximum Elevation of M.L. area – 316 m AMSL Minimum Elevation of M.L. area - 293 m AMSL
8	Ground Level Elevation	: 293 AMSL
9	Ultimate Working Depth	: 252 AMSL
10	Water Table	: 244 AMSL (49 m bgl)
11	Topography of Mine	: Steep Slope
12	Explosive Requirement	: 21 Tons/year
13	Diesel/Fuel requirement	: 486 KL/year (145.80 Litres/day)

Production Details :

Year	Production of Stone in Tons/ Year	Production of Stone in Cum / Year	Waste (cum)	Bench RL in meters
1 st	1,69,375	67,750	34,770	260-244
2 nd	1,69,450	67,780	11,400	250-238
3 rd	1,69,480	67,792	12,350	244-232
4 th	1,69,480	67,792	Nil	238-232
5 th	1,69,480	67,792	10,450	238-202
Total	8,47,265	3,38,906	68,970	Depth (Plan Period) – 58 metre

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	0.00
Road	0.015

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Total area in use	0.015
Balance area unused	2.817
Total Leasehold area	2.832

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry	2.190
Proposed Crusher	0.115
Road	0.007
Safety Zone	0.495
Total area in use	2.807
Balance Area	0.025
Total Leasehold area	2.832

Land Use pattern at the Conceptual Stage i.e. end of mine

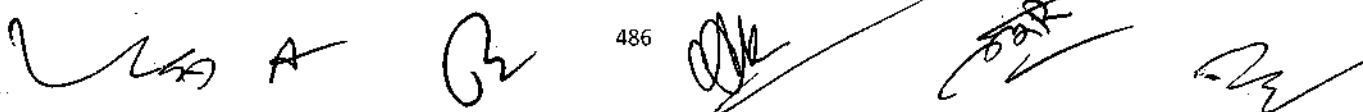
Category	Area in Hectares
Quarry	2.215 Plantation – 0.409 Ha.(After Reclamation) Water Body – 1.806 Ha.
Proposed Crusher	0.115 (Plantation)
Safety Zone	0.495 (Plantation)
Road	0.007 (Plantation)
Total area in use	2.832
Total Leasehold area	2.832
Plantation (Safety Zone, Crusher Area, Haul Road, Reclaimed area)	1.026 Ha. (36.22 % of the lease area)

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.495 ha	1,238 trees @ 2500 trees per ha
2	Other Reclaimed area	: 0.531 Ha.	1,327 trees @2500 trees per Ha.
3	Haul /Approach Road	: 1.80 KM	1200 trees on both sides – 3 m distance

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m-with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment &



Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Waste Generation

A total of 68,970 Cum of wastes (Over Burden) will be generated from entire Gadwa Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	34,770.00
2 nd Year	11,400.00
3 rd Year	12,350.00
4 th Year	0
5 th Year	10,450.00
Total	68,970.00

Source: Mining Plan

Disposal of Waste from the Quarry

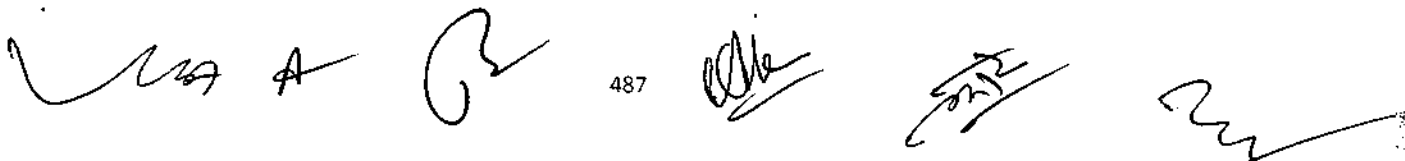
OB will be utilized for Retaining wall Construction, internal mine road construction & berm along the approach road construction & maintenance.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

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- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Baseline data generation has been done period October, 2021 to December, 2021.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

8. Rohra Stone Deposit of M/s R.N. Stone Works, Village : Rohra, Thana : Brindavan, Thana NO. : 62, Dist. : Sahebganj, Jharkhand (2.83 Ha).

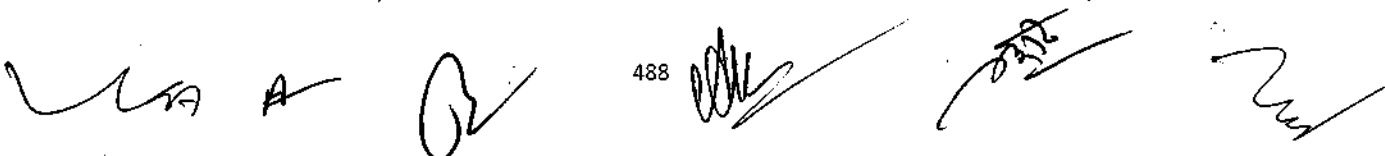
(Proposal No. : SIA/JH/MIN/258018/2022).

Applied Area: 7.00 Acres (2.83 Ha)

Project Category: B2 – Application for Environment Clearance

EC Application for: Stone : 149400 TPA ~ 55333 m³/yr;

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Waste : 14650 cum waste generate during plan period.

DG Set : 20 KVA

Crusher : Not Proposed

Name of the consultant : Sathi Planners Pvt. Ltd.

This is a new project which has been taken for appraisal on 24-02-2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Rohra Stone Deposit
2	Lessee:	: M/s R.N. Stone Works, Proprietor- Shri Nimay Chandra Shil
3	Lease Address	: At Mouza/ Village- Rohra, PS.- Brindaban, Dist- Sahebganj
4	Lease Area	: Ha:2.83 Acres: 7.00
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Rs. 124.50 Lakhs
7	EMP Budget	: Capital: Rs. 7.50 Lakhs Recurring: Rs. 5.20 Lakhs/ year
8	CSR / CER Budget	: Rs. 2.48 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 759287.50 Cu. M. Tonnes: 2050076.25 Tonnes
11	Mine Life	: 13.7 Years Only
12	Man power	: 15 Person
13	Water Requirement	: 7.60 KLD (Drinking:0.38 KLD, Dust Suppression: 4.96 KLD, Plantation: 2.26 KLD)
14	Water Source	: Through Water Tanker –nearby spring/Nala & Wells
15	DG Set / power	: Not Applicable
16	Crusher	: Not Applicable
17	Nearest Water Body	: Gumani Nadi - 01.20 Km (S) Morong Nadi – 04.95 Km (W)
18	Nearest Habitation	: Barhait – 5 Km (SW)
19	Nearest Rail Station	: Barharwa Railway Station: 13.06 Km ES
20	Nearest Air Port	: Birsa Munda Airport, Ranchi 295 km WS direction from the mine site.
21	Nearest Forest	: As per forest division. Letter no – 1654 Dt- 26-08-2021
22	Road & Highways	: NH-114 A – 12.58 Km (E) SH-18 – 5.68 Km (E) Barhait-Barharwa MDR 4.52 km S direction

CO-ORDINATES

Toposheet : 72 P/9	
Latitude	Longitude
24°54'45.45" N	87°39'34.70" E

To	To
24°54'53.24" N	87°39'39.91" E

Land Details :

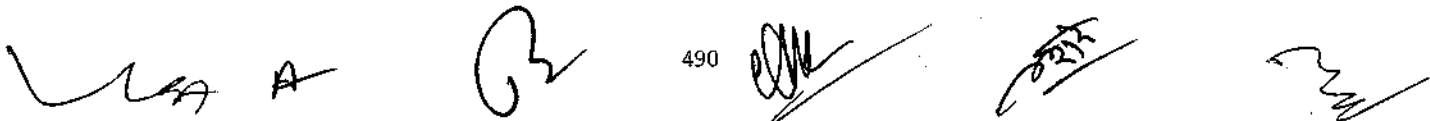
Mouza	Khata No.	Plot No.
Rohra	18	167 (P)
	21	186 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 926 /M dated 11.09.2021
2	CO	: The CO, Taljhari vide letter no. 71, dated 18.02.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyon & Register II.
3	DMO	: DMO, Sahebganj vide memo no. 955/M, dated 20.09.2021 certified that no other lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, In-Charge Wildlife Sanctuary, Udhwa (Sahebganj) vide letter no. 100, dated 12.01.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Sahebganj Division vide letter no. 1654, dated 26.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Sahebganj vide letter no. 1156/ M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 20.07.2021
8	Mine Plan Approval	: Letter No. 1063 , dated 29.10.2021

WORKING DETAILS

1	Mining Method	: Opencast Mechanized Mining
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2	Quarry Area	: 5 years- 2.23 ha	Life of Mine - 2.23 ha
3	Waste Generation	: 5 years- 14650 During plan Period	Life of Mine - 13.7 Years
4	Stripping Ratio	: --	
5	Working Days	: 300 days/year	
6	Benches: size & No	: 6m x 6m	
7	Elevation of Mine	: In 195 MSL to 180 MSL	
8	Ground Level Elevation	: In 180 MSL	
9	Ultimate Working Depth	: In 149 MSL	
10	Water Table	: In 144 MSL and also 5-10 m bgl.	
11	Topography of Mine	: Hilly sloping 2	
12	Explosive Requirement	: Yes- No. of holes: 3/day; Explosive: Slurry- 207 Kg/Day	
13	Diesel/Fuel requirement	: Diesel required only for Mining machinery operation and Tippers/trucks for transportation.	

PRODUCTION DETAILS

Year	Production of stone		Removal of Gritty soil in in Cum
	in Tonnes	in TCum	
1st	149400	55333.33	11250
2nd	149400	55333.33	2400
3rd	149400	55333.33	000
4th	149400	55333.33	1000
5th	149400	55333.33	000
Total	747,000	276666.65	14650

LAND USE

SL	Pattern	Present Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Quarry Area	Nil	2.23	2.29	Water Body
2	Greenbelt within safety barrier	Nil	0.49	0.49	Plantation
3	Road	0.00	0.01	-	-
4	Infrastructure	Nil	0.02	-	-
5	Approach Road	Nil	0.03	-	-

6	Settling tank	Nil	0.02	0.02	-
7	Garland drain	Nil	0.03	0.03	-
8	Balance unused area	2.83	0.00	-	-
	TOTAL	2.83	2.83	2.83	-

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.49 Ha	1,225
2	Other Reclaimed Area	: 760 meter	507 Tree both side approach road.
3	Haul /Approach Road	: Area/Length	No of Trees

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

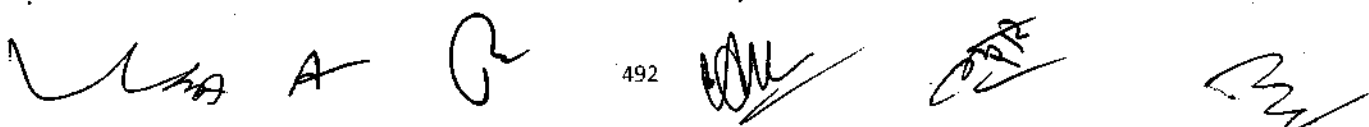
- 14650 cum Waste Generation during the plan period will be used quarry facing.

Water Pollution Control Measures:

- Negligible impact envisaged on surface water and ground water due to mining as no discharge of effluent or intersection of ground water.
- No major surface water body within 1 km radius of the project site.
- Garland drain & settling tank will be constructed around dump for arresting run-off, it will be integral part of rainwater harvesting system.
- Post-project the quarry area will serve as reservoir, which will be source of water for the nearby areas.

Air and Noise Pollution Control Measures:

- Water sprinkling shall be done on the haul roads.
- Plantation to be done in the safety zone develop a green belt along the ML boundary.
- Sharp drill will be used and wet drilling will be followed.
- Controlled blasting- Nonel technology will be used.
- Overloading will be prohibited while transporting. Water sprinkling will be taken up.
- Plantation along transportation route will be done.
- Regular monitoring of Air quality & PUC for vehicle will be carried out.



Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard.
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The road side plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles will be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Rohra Stone Deposit of M/s R.N. Stone Works, Village : Rohra, Thana : Brindavan, Thana NO. : 62, Dist. : Sahebganj, Jharkhand (2.83 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

9. Brick Soil Mining for M/s A.D.S. Bricks (Prop: Sri Someshwar Gope), Village : Hochar, Thana : Ratu, Thana NO. : 63, Dist. : Ranchi, Jharkhand (0.704 Ha).

(Proposal No. : SIA/JH/MIN/236655/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1200 Cu.M. / Year i.e. Bricks 6,00,000 Numbers / year.

Name of the consultant : M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

This is a new project which has been taken for appraisal on 24.02.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s A.D.S. Bricks in Mouza – Hochar.
2	Lessee's address for correspondence:	: M/s A.D.S. Bricks Proprietor: Sri Someshwar Gope At Village - Hochar, P.O. - Purio, P.S. – Ratu, District - Ranchi, State - Jharkhand, Pin Code - 835205.
3	Lease Address	: In Mouza – Hochar, Thana – Ratu, Thana No. – 63,

		District – Ranchi, Jharkhand.	
4	Lease Area	: Ha: 0.704 Hectares	Acres: 1.74 Acres
5	Type of Land	: Non Forest – Rayati Land	
6	Project Cost	: 10 Lakhs	
7	EMP Budget	: Capital: 4.59 Lakhs	Recurring: 2.334 Lakh / year
8	CSR / CER Budget	: Rs. 0.20 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 12369.264 Cu. M.	
11	Mine Life	: 11 years	
12	Man power	: 25	
13	Water Requirement	: 13.98 KLD (Dust Suppression: 10.5 KLD, Drinking: 1.0 KLD, Plantation: 2.48 KLD)	
14	Water Source	: From Jumar River by tankers	
15	DG Set / power	: No	
16	Crusher	: No	
17	Nearest Water Body	: Jumar River is approx. 1.56 Km aerial distance away in South direction	
18	Nearest Habitation	: Hochar village is approx. 1.01 km aerial distance away in south - western direction Ranchi Town is approx. 12.87 Km aerial distance away in the South direction	
19	Nearest Rail Station	: Mesra Railway Station is approx. 7.75 Km aerial distance away in South-east direction.	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, Jharkhand is approx. 15.76 Km aerial distance away in south direction.	
21	Nearest Forest	: 6.00 Km away from the proposed project.	
22	Road & Highways	: Road: Ranchi-Ring Road is approx. 900m away in South direction. Highway: SH-2 is approx. 4.50 Km away in West direction.	







CO-ORDINATES

1	Latitude	From N23°27'27.80"	To N23°27'32.75"
2	Longitude	From E85°21'07.82"	To E85°21'11.33"

LAND DETAILS

Khata No -	17
Plot Nos -	697 & 729






STATUTORY CLEARANCES :




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1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Ratu, Ranchi, vide letter no. 914(ii), dated 21.11.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan or Register II.
3	DMO	:	DMO, Ranchi, vide letter no. 1015/M, dated 22.09.17 certified that no other lease exists within 500m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	:	Division Forest Officer, Wildlife Division Ranchi, vide memo no. 1309, dated 27.11.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	Division Forest Officer, Ranchi Forest Division vide letter no. 5027, dated 31.10.2019 certified that the distance of reserved / protected forest is more than 250 m from proposed project site
6	DSR	:	Project's name is mentioned in page no 158 of District Survey report (DSR) Ranchi.
7	Gram Sabha	:	On 28.08.2016
8	Mine Plan Approval	:	Approved by the Assistant Mining Officer, Ranchi.

Working Details

1	Mining Method	:	Opencast Manual Mining and transportation by tippers.
2	Quarry Area	:	5 years – 0.324 Ha Life of Mine – 0.679 Ha
3	Waste Generation	:	5 years – 690 Cu.M (Top Soil) Life of Mine – 1358 Cu.M (Top Soil)
4	Stripping Ratio	:	1 : 0.115
5	Working Days	:	200 Days
6	Benches: size & No	:	Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	:	At RL 633m AMSL
8	Ground Level Elevation	:	633m AMSL
9	Ultimate Working Depth	:	631m AMSL
10	Water Table	:	620m AMSL
11	Topography of Mine	:	Flat Land.
12	Explosive Requirement	:	No
13	Diesel/Fuel requirement	:	4 KL/year (20 Litres/day)



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Production Details

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in Meters
1st	1200	6,00,000	138	633m – 631m
2nd	1200	6,00,000	138	633m – 631m
3rd	1200	6,00,000	138	633m – 631m
4th	1200	6,00,000	138	633m – 631m
5th	1200	6,00,000	138	633m – 631m
Total	6000	30,00,000	690	

Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area (Quarry)	Nil	0.324	0.679	0.679	Grass cultivation will be done on it
2	Road	0.001	0.007	Nil	Nil	
3	Green Belt Within Safety Barrier	Nil	0.025	0.025	0.025	Plantation
4	Unutilized	0.703	0.348	Nil	Nil	
	TOTAL	0.704	0.704	0.704	0.704	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.025 Ha	65 trees @ 2500 trees per Ha
2	Haul /Approach Road	0.18 Ha i.e. Length 900m width 2m	600 trees on both sides – 3m distance
3	Out Side the applied area	0.201 Ha	503 trees @ 2500 trees per Ha

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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Solid Waste Management

- Waste (Top soil) Generation will be 1358 Cu.M. during the life of Mine.
The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

Water Quality Management

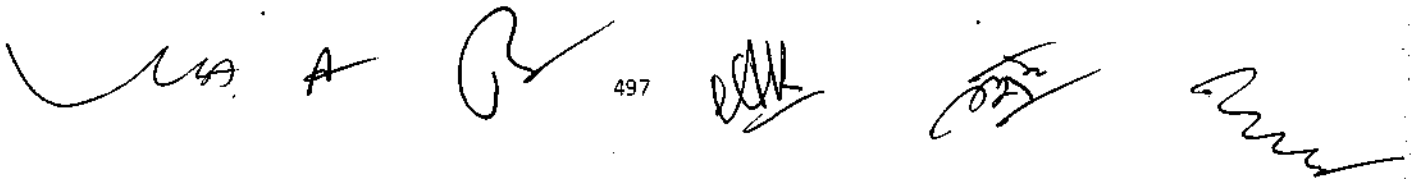
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.

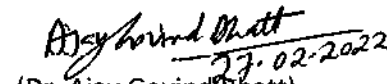
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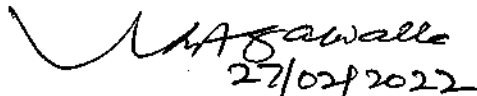
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.


Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining for M/s A.D.S. Bricks (Prop: Sri Someshwar Gope), Village : Hochar, Thana : Ratu, Thana NO. : 63, Dist. : Ranchi, Jharkhand (0.704 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

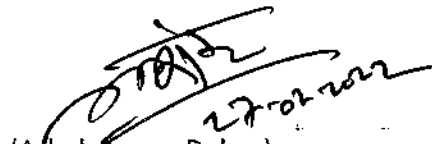
The meeting concluded with thanks to all present.

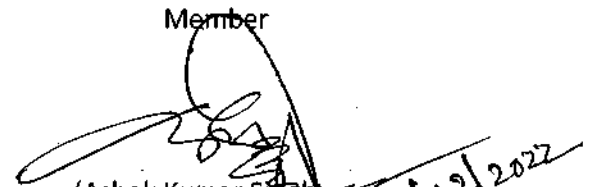

(Dr. Raju Kumar)
Member


(Dr. Ajay Govind Bhatt)
Member


(Niranjan Lal Agarwalla)
Member


(Dr. Kirti Avishek)
Member


(Ashok Kumar Dubey)
Secretary

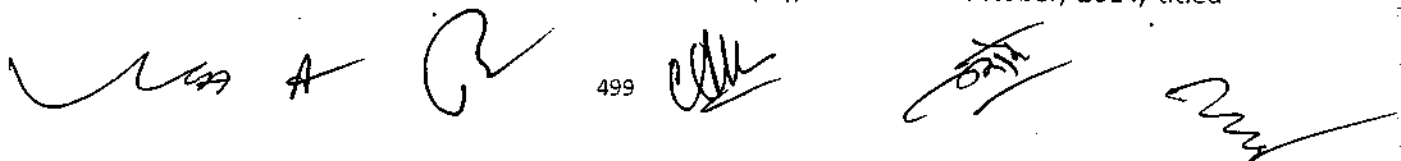

(Ashok Kumar Singh)
Chairman

I. Statutory compliance

- i. This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- ii. The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- iii. The Hon'ble Supreme Court vide order dated 08.01.2020 in W.P. (Civil) No.114/2014 in the matter of Common Cause vs. Union of India has directed that the area which has been mined should be restored so that grass and other vegetation including trees can grow in the mining area for the benefit of animals.

"The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

- iv. The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- v. This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- vi. This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- vii. Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- viii. The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- ix. The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- x. The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IAJI (M), dated 29th October, 2014, titled

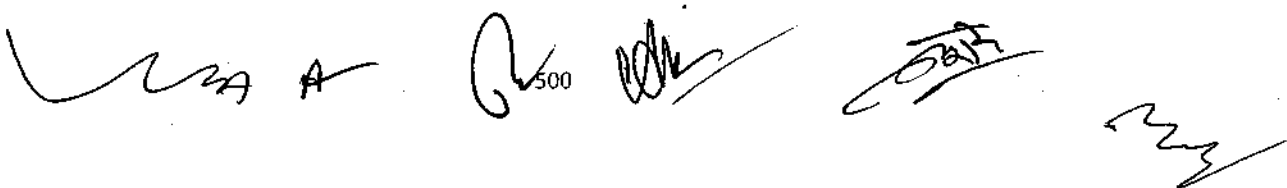
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"Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

- xi. The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- xii. A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- xiii. State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- xiv. The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.Environmentclearance.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF & CC Regional Office for compliance and record.
- xv. The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

- i. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCUI, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- ii. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from ail sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance: Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust








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control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.

iii. Water quality monitoring and preservation

- i. In case, immediate mining scheme envisages intersection of ground water table; then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- ii. Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- iii. Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- iv. The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and

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Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

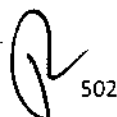
- v. Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IAJI (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- vi. Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.
- vii. Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- viii. The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

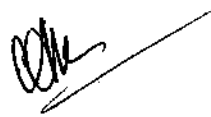
IV. Noise and vibration monitoring and prevention

- i. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- ii. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- iii. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining Plan



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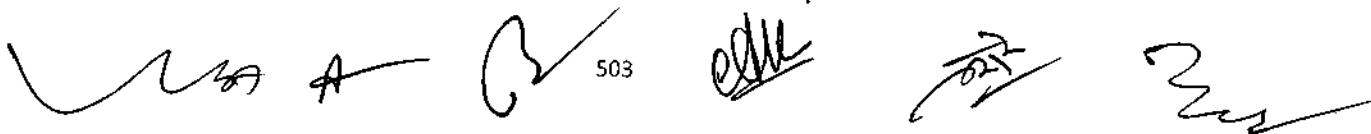




- i. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- ii. The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- iii. The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.

VI. Land reclamation

- i. The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- ii. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- iii. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
- iv. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of

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local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

- v. The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
- vi. Catch drains, settling tanks and ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
- vii. Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
- viii. The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

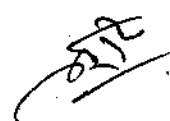
VII. Transportation

- i. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain

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Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.

- ii. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

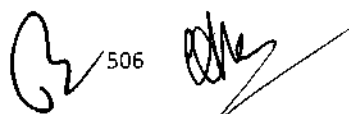
- i. The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- ii. The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- iii. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- iv. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.
- v. And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

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IX. Public hearing and human health issues

- i. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.
- ii. The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
- iii. The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium-Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- iv. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line

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X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.

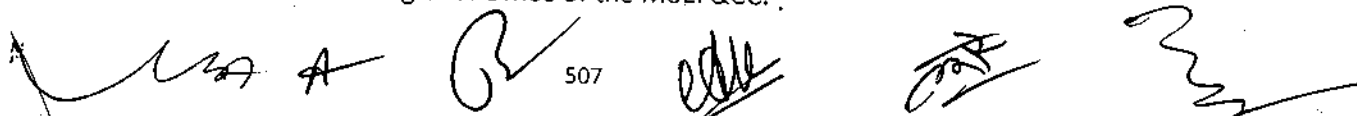
- v. The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- vi. Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- vii. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

X. Corporate Environment Responsibility (CER)

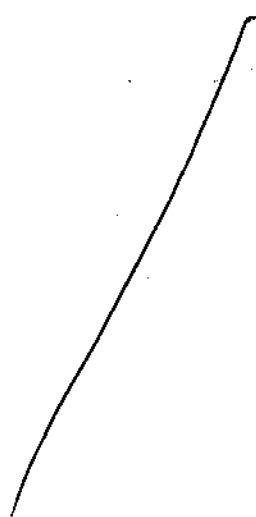
- i. The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.
- ii. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office.

XI. Miscellaneous

- i. The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.

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- ii. The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- iii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.
- iv. A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.
- v. The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
- vi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- vii. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- viii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- ix. The Environmental Clearance accorded shall be valid for the period of lease of the mine, the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.



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I. Statutory Compliance

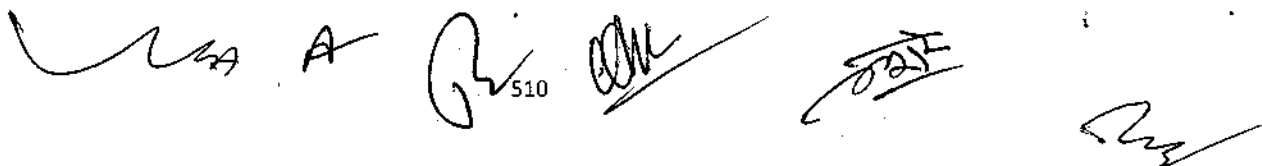
- i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.
- xii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.

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- xiii. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- xiv. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.
- xv. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvi. Water during construction phase should be preferred from Municipal supply.
- xvii. Unskilled construction labourers shall be recruited from the local areas.
- xviii. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- xix. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- xx. Rest room facilities shall be provided for service population.
- xxi. Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- xxii. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.
- xxiii. Project proponent shall install Wind Augmentation and Air Purifying Unit (4 Units at one location in Ranchi) on Pilot basis to deal with particulate matter pollution.

II. Air quality monitoring and preservation

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the

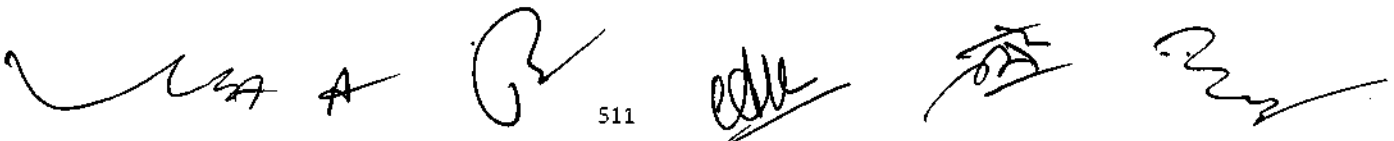
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combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.



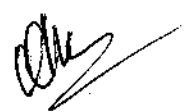


- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

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- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.

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- xvi. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxi. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.

- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity.

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These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.

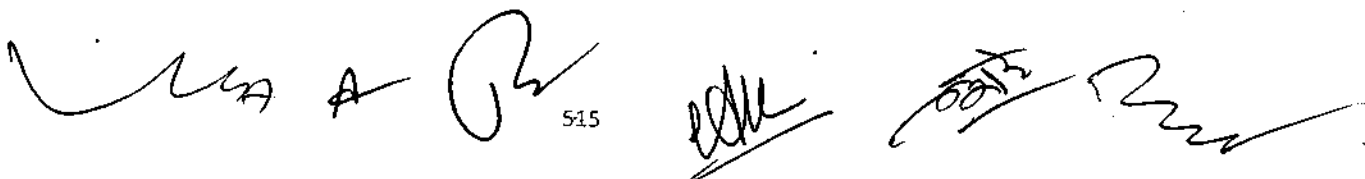
- viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- ii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

VIII. Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation

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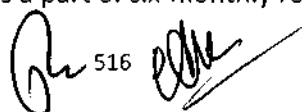
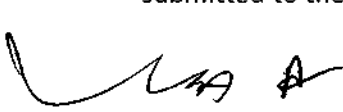
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human Health Issues

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.



- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

XI. Miscellaneous

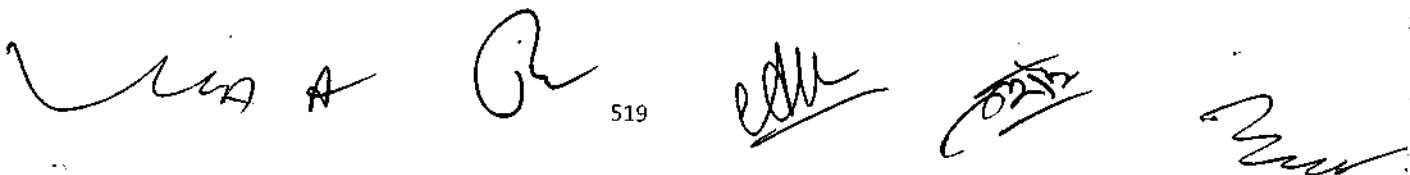
- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned: Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

The TORs prescribed for undertaking detailed EIA study are as follows:

A. Standard Conditions :

1. Examine base line environmental quality along with projected incremental load due to the project.
2. Environmental data to be considered in relation to the project development would be (a) land, (b) ground water, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
3. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding areas. Any obstruction of the same by the project.
4. Submit the details of the tree felling for the project.
5. Submit the present land use and permission required / obtained for any conversion such as forest, agriculture land etc.
6. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of E (P) Act.
7. Ground water classification as per the Central Ground Water Authority.
8. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
9. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water.
10. Examine details of solid waste generation, treatment and disposal.
11. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption and energy efficiency.
12. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
13. Examine road / rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
14. Examine the details of transport of materials for construction which should include source and availability.
15. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
16. Submit details of a comprehensive Disaster Management Plan including emergency evacuation and fire during natural and man-made disaster.

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17. Details of litigation pending or any notice received against the project, if any, with direction / order passed by any Court of Law against the Project should be given.
18. The cost of the Project (capital cost and recurring cost) the damage cost of already opened land as well as the cost to wards implementation of EMP should be clearly spelt out.
19. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measures, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".
20. Any other rules / guidelines / orders issued by any competent authority shall be applicable to the project at the time of consideration of the projects for grant of EC.

B. Specific Conditions :

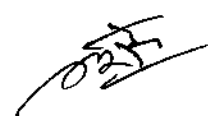
1. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
2. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
3. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
4. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
5. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be summited with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".
6. Management of solid waste and the Construction & Demolition waste for the project vis- a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
7. Details of all construction input should be furnished for assessment of Ecological damage/Environmental damage.
8. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.





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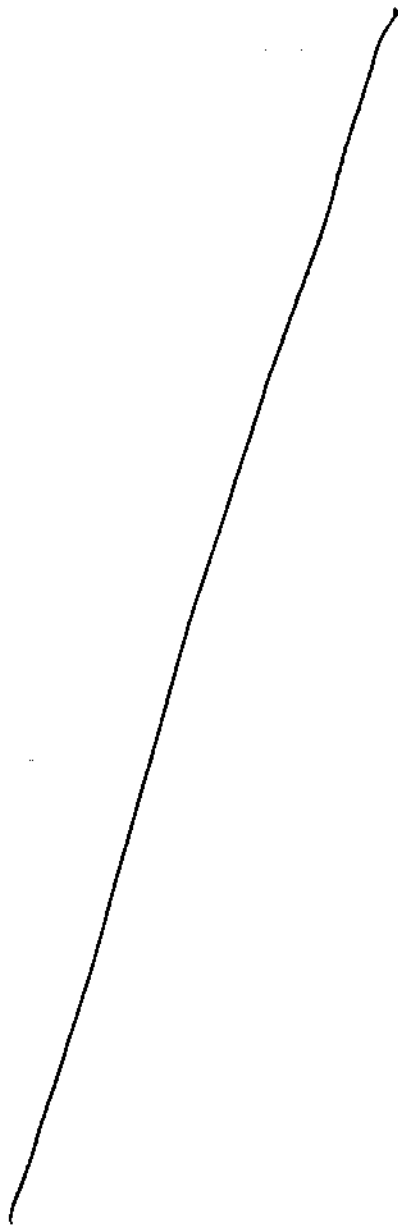






9. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.

10. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M), dated 12.01.2017.



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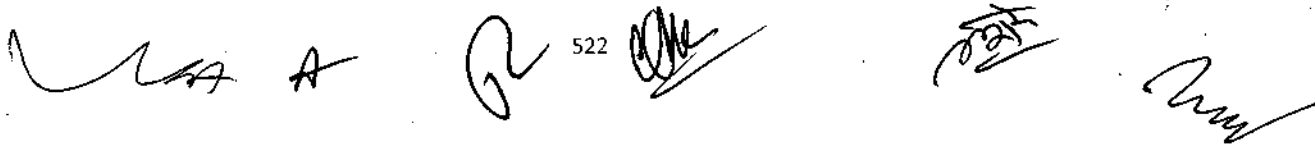
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The TORs prescribed for undertaking detailed EIA study are as follows:

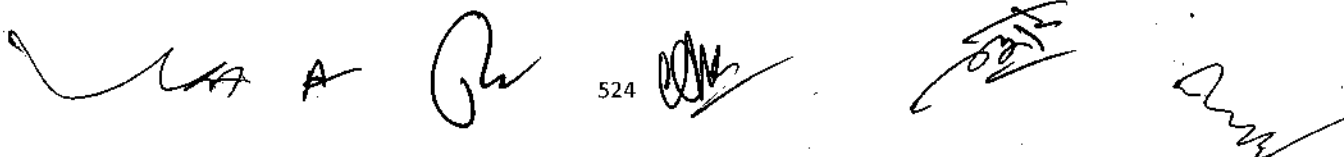
- i. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- ii. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- iii. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- iv. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- v. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- vi. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- vii. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
- viii. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- ix. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- x. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and

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other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

- xi. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- xii. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- xiii. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- xiv. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- xv. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- xvi. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- xvii. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- xviii. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- xix. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also

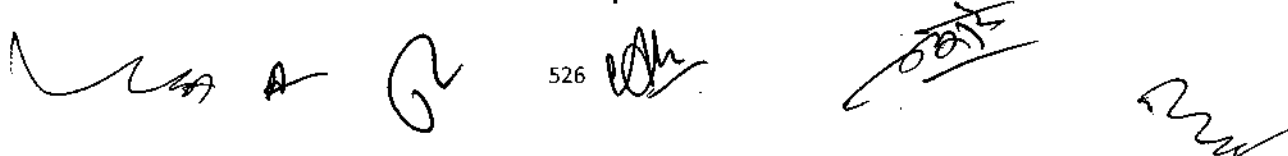
- be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- xx. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
 - xxi. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
 - xxii. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
 - xxiii. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
 - xxiv. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
 - xxv. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

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- xxvi. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- xxvii. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- xxviii. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- xxix. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- xxx. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- xxxi. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- xxxii. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- xxxiii. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- xxxiv. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- xxxv. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and

periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

- xxxvi. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- xxxvii. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- xxxviii. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- xxxix. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
 - xl. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 - xli. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
 - xlii. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
 - xliii. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
 - xliv. Besides the above, the below mentioned general points are also to be followed :
 - a) Executive Summary of the EIA/EMP Report
 - b) All documents to be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.

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- g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
- xlv. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
- xlvi. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.



The TORs prescribed for undertaking detailed EIA study are as follows:

A . Standard Terms of Reference

1. Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damages, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.
2. Submit the details of the road/rail connectivity along with the likely impacts and mitigative measures
3. Submit the present land use and permission required for any conversion such as forest, agriculture etc
4. Examine the details of transportation of Hazardous wastes, and its safety in handling.
5. Examine and submit the details of on line pollutant monitoring.
6. Examine the details of monitoring of Dioxin and Furon.
7. MoU for disposal of ash through the TSDF.
8. MoU for disposal of scrubbing waste water through CETP.
9. Examine and submit details of monitoring of water quality around the landfill site.
10. Examine and submit details of the odour control measures.
11. Examine and submit details of impact on water body and mitigative measures during rainy season.
12. Environmental Management Plan should be accompanied with Environmental Monitoring Plan and environmental cost and benefit assessment. Regular monitoring shall be carried out for odour control.
13. Water quality around the landfill site shall be monitored regularly to examine the impact on the ground water.
14. The storage and handling of hazardous wastes shall be as per the Hazardous Waste Management Rules.
15. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
16. Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.

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17. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
18. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
19. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
20. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Incinerator>"

B. Other

1. Examine base line environmental quality along with projected incremental load due to the project.
2. Environmental data to be considered in relation to the project development would be (a) land, (b) ground water, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
3. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding areas. Any obstruction of the same by the project.
4. Submit the details of the tree felling for the project.
5. Submit the present land use and permission required / obtained for any conversion such as forest, agriculture land etc.
6. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of E (P) Act.
7. Ground water classification as per the Central Ground Water Authority.
8. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
9. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water.
10. Examine details of solid waste generation, treatment and disposal.
11. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption and energy efficiency.
12. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
13. Examine road / rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.

14. Examine the details of transport of materials for construction which should include source and availability.
15. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
16. Submit details of a comprehensive Disaster Management Plan including emergency evacuation and fire during natural and man-made disaster.
17. Details of litigation pending or any notice received against the project, if any, with direction / order passed by any Court of Law against the Project should be given.
18. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
19. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
20. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
21. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
22. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".
23. Management of solid waste and the Construction & Demolition waste for the project vis- a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
24. Details of all construction input should be furnished for assessment of Ecological damage/ Environmental damage.
25. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
26. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.

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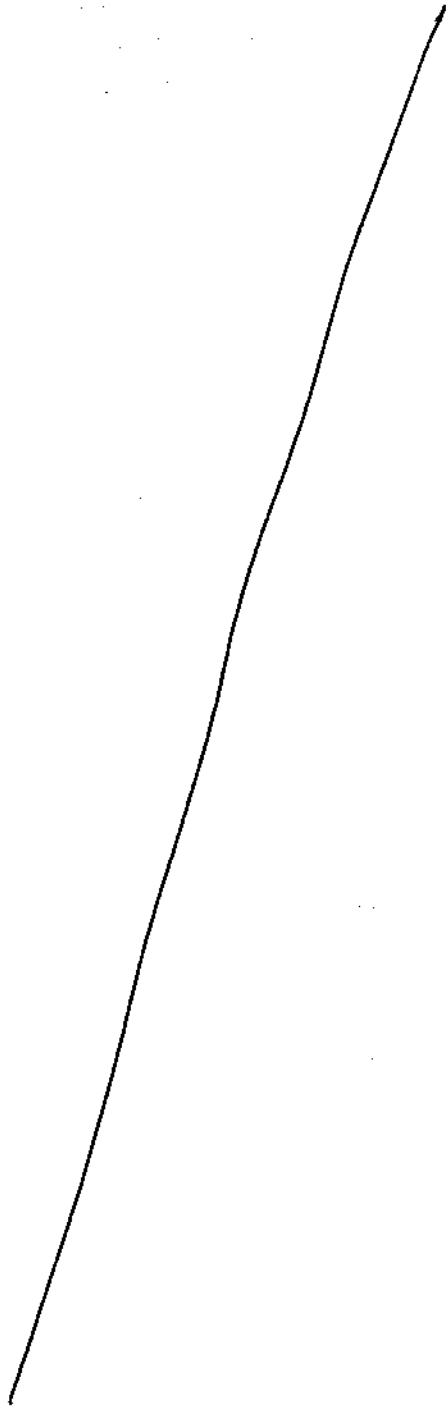






27. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.P. for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

28. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015 / 109 / 2013 – IA.II (M), dated 12.01.2017.



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The TORs prescribed for undertaking detailed EIA study are as follows:

A. Standard Terms of Reference

1. Executive Summary

2. Introduction

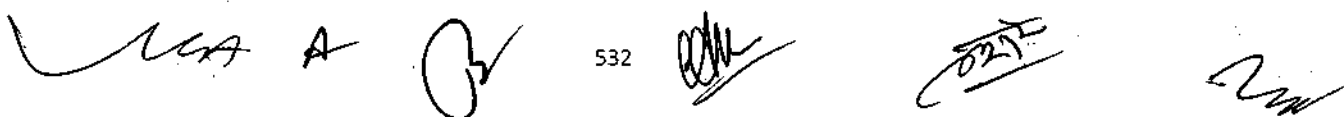
- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent
- iii. Importance and benefits of the project

3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing / existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4. Site Details






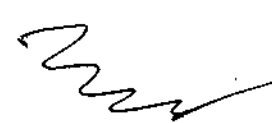
- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.

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- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5. Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.




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6. Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7. Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment.

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Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.

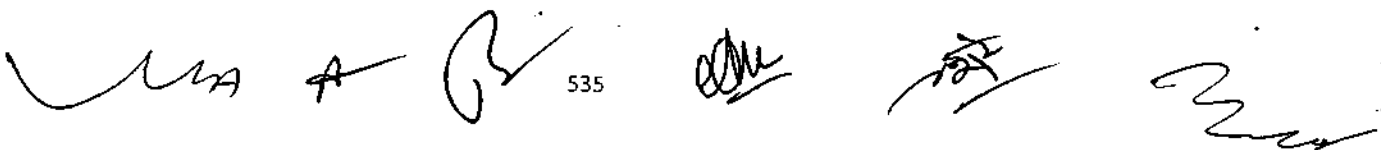
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control.
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle / reuse / recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9. Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

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- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

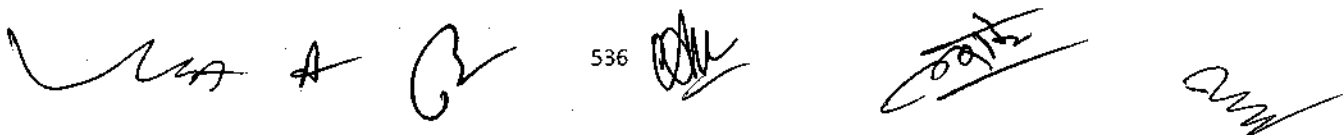
- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

13. A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS)

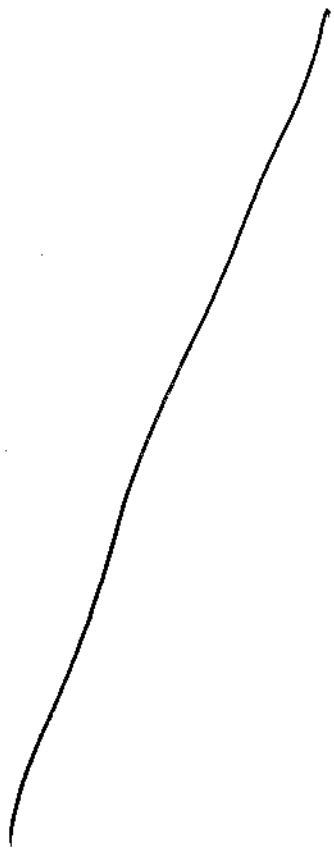
- 1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
- 2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
- 3. Details on installation/activation of opacity meters with recording with proper calibration system
- 4. Details on toxic metals including mercury, arsenic and fluoride emissions
- 5. Details on stack height requirement for integrated steel
- 6. Details on ash disposal and management -Non-ferrous metal
- 7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
- 8. Raw materials substitution or elimination
- 9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
- 10. Details on Holding and de-gassing of molten metal from primary and secondary aluminum, materials pre-treatment, and from melting and smelting of secondary aluminium
- 11. Details on solvent recycling


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12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water

C. Other

1. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.
2. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M), dated 12.01.2017.



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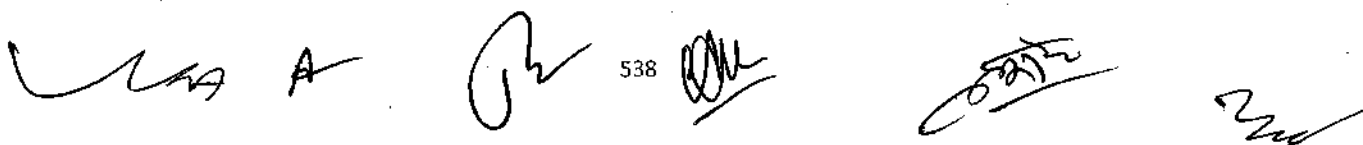
Standard EC condition

I. Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife; if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. no. 612 (E) dated 25 August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM10 and

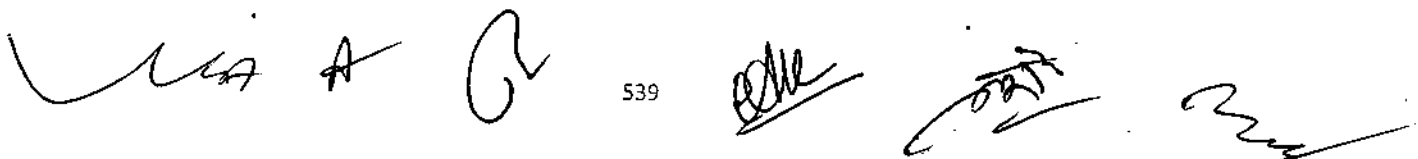
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PM₁₀ & PM_{2.5} in reference to PM emission and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each) covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)

- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
- x. Provide wind shelter fence and chemical spraying on the raw material stock piles; and
- xi. Have separate truck parking area and monitor vehicular emissions at regular interval.
- xii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport
- xiii. Ventilation system shall be designed for adequate air changes as per ACGIH Document for all tunnels, motor houses, cement bagging plants

III. Water quality monitoring and preservation

- i. The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)

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- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Adhere to 'Zero Liquid Discharge'.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vi. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- vii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- viii. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- ix. The project proponent shall make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention



- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

V. Energy Conservations measures

- i. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- ii. Provide the project proponent for LED lights in their offices and residential areas.
- iii. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standards.

VI. Waste management

- i. The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & other waste (Management & Trans boundary Movement) Rules, 2016.

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- ii. Kitchen waste shall be composted or converted to biogas for further use (to be decided on case to case basis depending on type and size of plant)

VII. Green Belt

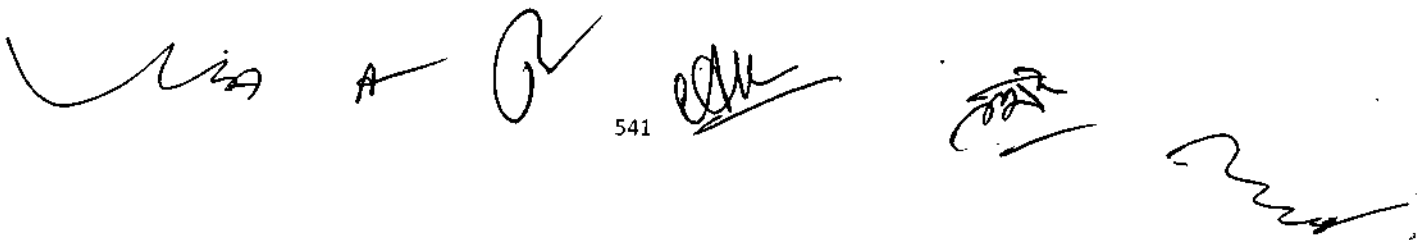
- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

A series of handwritten signatures and initials in black ink, including a large cursive signature, the letter 'A', a stylized 'R', and several other illegible signatures.

- i. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- v. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form- V to the concerned State Pollution Control Board, as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities,

commencing the land development work and start of production operation by the project.

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- viii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- ix. Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- x. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xi. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- xiii. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010
- xv. This environmental clearance is valid for seven years from the date of issue.

