

MINUTES OF THE 131ST MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 24TH, 25TH, 26TH, 27TH AND 28TH APRIL, 2026.

The 131st meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 24th, 25th, 26th, 27th and 28th April, 2026 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. Shri Niranjana Lal Agarwalla - Member
3. Dr. Raju Kumar - Member
4. Shri Ashok Kumar Dubey, IFS (Retd.) - Member (Not present)
5. Dr. Ajay Govind Bhatt - Member
6. Shri Srikant Verma, IFS - Member Secretary

The various projects applied in SEAC for the technical appraisal after the last SEAC meeting held on 17th, 18th, 19th and 20th February, 2026. 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 : 24th April, 2026 [Friday]

- A. A Complain received from Shri Ranjit Singh, Ex-Panchayat Samiti Member, Saguna, Patan, Palamu vide letter dated 17.03.2026.

The complaint letter refers to Brick Kiln. No EC is granted for brick kiln projects.

Hence, the contents of the complaint letter are not relevant to SEAC.

- B. A Complain received from Smt. Rina Devi, District Parishad Member, Nawabazar, Palamu vide letter no. 159B, dated 17.02.2026.

In the instant matter Original Application no. 07 of 2026/EZ has been filed before Hon'ble NGT, Gaurav Singh vs Fairmine Carbons Pvt. Ltd. & Ors and order has been passed on 20.01.2026. The paragraph 1(6) of the order states :

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“Direct MoEF and SEIAA to furnish a comprehensive action taken report detailing violations, consents granted, inspection reports and proposed remedial measures.”

Further, a letter dated 23.04.2026 from Director, MoEF&CC, Govt. of India addressed to Member Secretary, SEIAA, Jharkhand has been received, wherein Member Secretary, SEIAA has been requested to take immediate appropriate action in the matter and filed comprehensive affidavit.

The SEAC of the view the site visit may be conducted to ascertain the exact status of the complain and accordingly file comprehensive affidavit before Hon’ble NGT.

C. Examination of six monthly compliance report submitted to SEIAA, Jharkhand :

- i. Bara Bana Para & Matiyani Stone Mine of M/s Bihar Bentonite Supply Company at Vill- Bara Bana Para & Matiyani, thana- Talhjari, Dist- Sahibganj, Jhk (9.086 Ha)
- ii. Kordar Stone Mine of M/s A.R.S. Enterprises at Village :Kordar, Thana : Ranga, Distt. :Sahibganj, Jharkhand. (2.797 Ha)
- iii. Borna Stone Mine of Shri Jagnath Bhagat at Vill- Borna, P.O.- Bishanpur, Dist- Sahebganj, Jhk (2.90 Ha)
- iv. Rajbandh Stone Deposit of M/s Mandhan Minerals Corporation of Sri Shiladitya Mukherjee at Village – Rajbandh, P.O.- Pakur, P.S.- Malpahari, Dist – Pakur, Jharkhand (3.64 Ha)
- v. Sundre Stone Deposit of M/s O.P. Stone at Vill – Sundre, Banglow, Sakrogarh, Dist – Sahebganj, Jharkhand (2.83 Ha)
- vi. Kutmu Stone Mine of Sri Basant Kumar Keshri at Village – Kutmu, Tehsil – Bishrampur, Dist – Palamu, Jharkhand (1.82 Ha)
- vii. Srirampur Stone Deposit of M/s Mandhan Minerals Corporation Sri Anil Tanwari at Vill – Srirampur, P.S. – Malpahari, Dist – Pakur, Jharkhand (1.48 Ha)
- viii. Saharpur Stone Deposit of M/s Shree Shree Stone Works at Village – Saharpur, Thana – Shikaripara, Dist – Dumka, Jharkhand (2.97 Ha)
- ix. Anguthia Stone Mine of M/s Sukhi Stone Works, Mouza :Anguthia, Block & P.S. :Hiranpur, Dist. :Pakur, Jharkhand (2.81 Ha)
- x. Chapabar Stone Mine of M/s M/s Hardrock Infra, Village :Chapabar, Tehsil :Ormanjhi, Dist. : Ranchi, Jharkhand (0.66 Ha)
- xi. Dugdugia Stone Mine of Shri Nitesh Sarada, Village :Dugdugia, Tehsil :Khunti, Dist. :Khunti, Jharkhand (1.948 Ha)
- xii. Gurgain Stone Mine of M/s Shri Jai Balaji Construction, Village :Gurgain, Thana :Ormanjhi, Thana no. : 69, Distt. : Ranchi, Jharkhand (1.74 Ha)











- xiii. Chagjo Stone Deposit of Shri Noor Islam, Village :Chagjo, Thana : Ranga, Thana No. : 8, Dist. :Sahebganj, Jharkhand (1.619 Ha)
- xiv. Gurgai Stone Deposit of M/s Lalkeshwar Stone Chips(P) Ltd. Sri Lalkeshwar Mahto & Sri Rammandan Mahto & Sri Tulsi Kharwar at Village :Gurgai, Oramnjhi, Ranchi (1.33 Ha)
- xv. Bishanpur Stone Deposit of Sri BhaweshTanwani at Vill – Bishanpur, Thana – Pakur, Dist – Pakur, Jharkhand (2.17 Ha)

The compliance reports were examined. These were found criptic in which details alongwith evidences are required to ascertain the implementation / conditions of the EC.

Member Secretary, SEAC will seek clarification and details with evidence from the Project Authorities.

The replies so received will be further examined.

Day 2 : 25th April, 2026 [Saturday]

Consideration of proposals :

1. Expansion of Residential Project located at Ranchi Smart City of M/s Big Realtors JV, Village :Jagarnathpur, Tehsil :Namkum, Distt.: Ranchi, Jharkhand.

(Proposal no.: SIA/JH/INFRA2/576561 /2026)

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

This is an expansion project which has been taken for appraisal on 25.04.2026.

Project Sector: 8(b) Townships and Area Development Projects , Category: B1.

Application for Terms of Reference (ToR) as per EIA notification, 2006.

- Existing residential project has been granted EC by SEIAA vide letter no - EC/SEIAA/2023-24/3061/2023/462 Dated – 01/11/2023, Jharkhand
- Consent to Establish has been obtained Ref No: JSPCB/HO/RNC/CTE-18006843/2024/205 Dated: 2024-04-2024



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- Existing buildup area 1,49,000 square meter under 8(a) category.
- Proposed buildup area is 1, 93,700.0 Square meter under 8(b) category.
- Existing Plot Area: 30351.40 Square Meter
- Proposed Plot Area: 30351.40 Square Meter
- Existing Project Cost: 275 Crores
- Total Project Cost After Expansion: 325 Crores

Expansion of Residential Project located in Ranchi Smart City of M/S Big RealtorsJVat Plot No. 25. R.S. Plot No.1269 to 1281, 1284 to 1289, 1291, 1292, 1297, 1298, 1299, 1301, 1358, 1359, 1363 to 1369, 1372 to 1374, 1377, 1378, 1654, 1665, 1666, 1667, 1669, 1670, 1671, 1674, 1675, 1677, 1678, Khata No.3, 7, 8, 10, 18, 28, 38, 63, 68, 72, 73, 75, 94, 129, 137, 156, 157, 158, 165, 167, 169 and 171 Halka No.-01 – Mauza (village) and Thana No. Jagarnathpur-244; Block - Namkum, District – Ranchi, Jharkhand.

Built-up Area: 1, 93,700 sq. m (Post Expansion)

Project Details:

S. NO.	DESCRIPTION	AREA (SQ M) (As per Existing EC)	AREA (SQ M) (Expansion)
A.	Total plot area	30,351.40	30351.40
B.	Permissible Ground Coverage (@ 35% of plot area)	10,623.00	10,623.00
C.	Proposed Ground Coverage (@ 35 % of plot area)	10,623.00	10,623.00
D.	Proposed FAR Area	1,06,230.00 (@3.5)	1,38,100.00 (@4.55)
E.	Non FAR Area (Staircase, Lift, Balcony, Ramp, Common area, Accessory Use, 2 Basement)	42770.00	55,600.00
F.	Built-up Area (D+E)	1,49,000.00	1,93,700.00
G.	Green Area (@16% of plot area)	4856.22	4856.22
H.	Paved Area @40% of the plot area	12140.56	12140.56
I.	Open Area	3035.14	3035.14
J.	Height	70 M	70 M
K.	No of Dwelling units	750	620
L.	Total Population	3612	3208
M.	Water Requirement	396	306
N.	Wastewater Generation	297 KLD	266 KLD
O.	STP	300 KLD	300 KLD
P.	Soid Waste Generation	1760 kg/day	1498 kg/day

PROJECT CONNECTIVITY

S. No.	Features	Description
1.	Nearest Habitation	• Dhurwa (580 m, WNW)

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		<ul style="list-style-type: none"> • Birsa Nagar (1.65km, West) • Jagarnathpur (700 m, ENE)
2.	Nearest City	• Ranchi (Project site lies within Ranchi District)_
3.	Nearest School/College	<ul style="list-style-type: none"> • DAV Public School (920 m, West) • St. Thomas School (1.29 km, WNW) • Nirmala College (3.56 km, NE)
4.	Nearest Hospital	<ul style="list-style-type: none"> • HEC Plant Hospital (1.69 km, West) • Paras HEC Hospital (1.99 km, WNW) • Summer Hospital & Research Centre (1.98 km, ESE)
5.	Nearest water body	<ul style="list-style-type: none"> • HEC Talab (2.78 km, SSW) • Dhurwa Dam (4.12 km, WSW) • Kanke Dam (9.63 km, North)
6.	Nearest Road	<ul style="list-style-type: none"> • 45m Wide Sector Road (Adjacent, South) • Dhurwa Road (320 m, WNW) • NH 39 (4.56 km, SW)
7.	Nearest Railway Station	<ul style="list-style-type: none"> • Ranchi Junction (6.21 km, NE) • Hatia Railway Sta 1 KM ENE
8.	Nearest Airport	• Birsa Munda Airport (2.95 km, ENE)
9.	Temples	<ul style="list-style-type: none"> • Jagarnathpur Temple (1.00 km, WNW) • Shri Durga Mata Mandir (1.57 km, WSW)

LAND DETAILS

Ranchi Smart CityPlot no.	25
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Khata No.	RS	
	Plot no.	
3	1284	Part
3	1289	Part
7	1291	Part
7	1292	Part
8	1665	Part
8	1666	Part
10	1286	Part
10	1372	Part
10	1373	Part
10	1374	Part
10	1377	Part
10	1667	Part
18	1287	Full
28	1285	Part

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38	1274	Full
63	1288	Part
68	1272	Full
68	1275	Full
68	1276	Full
68	1277	Full
68	1278	Part
68	1297	Part
68	1298	Part
68	1299	Part
72	1669	Full
72	1670	Part
72	1671	Part
73	1279	Part
73	1280	Part
73	1365	Part
73	1366	Part
73	1367	Part
75	1363	Part *
75	1364	Full
75	1368	Part
75	1369	Part
94	1359	Part
129	1378	Part
129	1654	Part
129	1674	Part
137	1273	Part
137	1301	Part
156	1271	Full
157	1270	Full
158	1269	Part
165	1358	Part
165	1677	Part
167	1675	Part
169	1281	Part
171	1678	Part

CO-ORDINATES

Point	Latitude	Longitude
A	23°18'24.17"N	85°17'52.16"E
B	23°18'25.20"N	85°18'3.34"E

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AREA STATEMENT

S. NO.	DESCRIPTION	AREA (SQ M) (Expansion)
A	Total plot area	30351.40
B	Permissible Ground Coverage (@ 35% of plot area)	10,623.00
C	Proposed Ground Coverage (@ 35 % of plot area)	10,623.00
D	Proposed FAR Area @4.55	1,38,100.00
E	Non FAR Area (Staircase, Lift, Balcony, Ramp, Common area, Accessory Use, 2 Basement)	55,600.00
F	Built-up Area (D+E)	1,93,700.00
G	Green Area (@16% of plot area)	4856.22
H	Paved Area @40% of the plot area	12140.56
I	Open Area	3035.14
J	Height	70 meter
K	No of Dwelling units	620

STATUTORY CLEARANCES

1	Land Docs	:	Owned land :M/s Big Realtors JV
2	DFO Wildlife	:	DFO, Wildlife Ranchi vide letter no. 736 dated 24.08.2022 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
3	DFO Territorial	:	DFO, Ranchi Forest Division vide letter no. 4273, dated 22.12.2018 certified that the distance of reserved / protected forest is 1300 meter from proposed project site.
4	CO certificate	:	The CO, Namkum, Ranchi vide letter no. 29 (ii), dated 07.01.2019 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyon & Register II.
5	AAI NOC	:	Airport Authority of India NOC for height clearance vide NOC Id- RANC/EAST/B/062823/766501, dated 08.08.2023 valid upto 07.08.2031.
6	Previous Environmental Clearance	:	Previous Environmental Clearance granted by SEIAA, Jharkhand vide letter no. EC/SEIAA/2023-24/3061/2023/462, dated 01.11.2023.
7	Consent to Establish (CTE)	:	CTE issued by JSPCB vide ref. no. JSPCB / HO / RNC/ CTE-18006843 / 2024 / 205, dated 24.04.2024.

8	Building Plan approval	:	Conceptual Plan submitted.
9	Baseline Data generation period	:	March to May 2026

Population Detail

S. No.	Category	No of DU/Area (sq m)	Standard	Population
Residential				
1.	Residents	620	4.5 person/unit	2790
2.	Staff	--	2790@5%	139
3.	Visitors	--	2790@10%	279
Total Residential Population				3208
4	Total Population			3208

Water Requirement Details

Category	Population/Area (sqm)/Capacity	Standard (LPCD)	Water Requirement-KLD	Fresh Water Requirement-KLD	Recycled Water requirement-KLD
Domestic					
Residents	2790	100	279	195	84
Staff	139	45	6	4	2
Visitors	279	15	4	3	1
Total Domestic Water Demand			289	202	87
Landscape	4856.2 sqm	3 l/day	15	0	15
Fire Fighting	--	--	2	--	2
Total			306	202	104

Wastewater Calculations

Category	Total Quantity (KLD)
Fresh water Req.	202
Flushing water Req.	104
Sewage generation (@80% of the fresh + 100% flushing water requirement)	266

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Capacity of STP 300 KLD or CSTP of Ranchi Smart City	300
Recovered water from STP (90% of Waste water)	239
1. Flushing	104
2. Landscaping	15
3. Fire Fighting	2
4. Discharge to Sewer/Road/Car washing	118

Solid Waste Generation

S. No	Description	Occupancy/ Area	kg/capit a/day	Total Solid Waste Generation (kg/day)	Biodegrad able (kg/day)	Non- Biodegradable (kg/day)
1.	Residents	2790	0.5	1395	558	837
2.	Staff	139	0.25	35	14	21
3.	Visitors	279	0.15	42	17	25
5.	STP sludge	266 KLD	--	26	26	-
Total Waste Generated				1498	615	883

EMP Cost – Approx. Budget Operational Phase:

S. No.	Activity	Capacity/ Area/Nos./parameters	Capital Cost (Lacs)	Annual Recurring Cost (Lacs)
1.	STP	300 KLD	60	10
2.	Landscaping & planting trees	4856.22 sq m	10	2
3.	Solid waste Management	Municipal waste-1498kg/day	18	2
4	RWH Pit Installation	6 pits	10	2
5	Energy Saving	16 %	10	4
6	Environmental Monitoring*	Air, water, soil and noise	-	2
Total			108	22

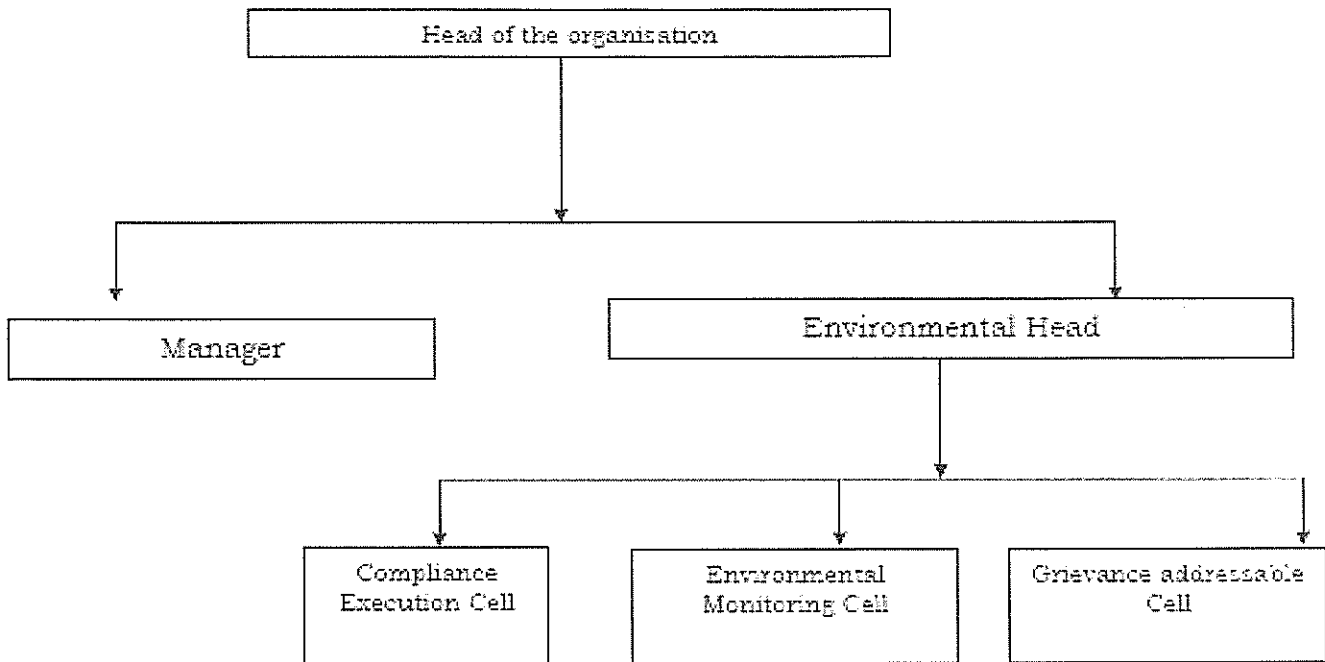
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Organization Structure

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Total green belt provided at the site is 4856.22 sqm (16.0 % of the net 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.

- **Environment Monitoring Programme**

Sl. No	Description	No. Monitoring Stations	Duration	Budget
1	Air	4 Stations	6 Monthly	20000
2	Soil	2 Stations	6 Monthly	8000
3	Surface Water	2 Stations	6 Monthly	7500
4	Ground Water	2 Stations	6 Monthly	7500
5	Noise	4 Stations	6 Monthly	7000

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 collected and segregated at source.
- 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).
- Non-Biodegradable wastes will be disposed to govt. or SPCB approved third party vendors.
- Sludge generated from STP will be used as fertilizer for green belt development.
- The Hazardous waste 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.

During Operation Phase

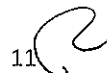
- STP of capacity i.e. 300 KLD of STP is proposed for treatment of wastewater.
- Treated waste water would be reused for Flushing, Landscaping, Road Washing & Misc
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 202 KLD of fresh water is required during operational phase of the 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.



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Energy conservation

- Energy will be conserved via solar power and LED at least 16% of the total power requirement.

Undertaking

- -An undertaking that no ground water will be used without any prior approval from CGWA
- An undertaking that at least 16 % of total power requirement will be provided by solar energy.

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 24, 25, 26, 27 & 28.04.2026, the Committee recommends for issuing of ToR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure I alongwith following specific condition :-

- I. In compliance of OM no. F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- II. Permission shall be obtained for discharge of the excess effluent water to the concerned authority.

2. Pakariya Stone Deposit of M/s Ram Rahim Stone Works (Partner : Shri Shubham Kumar Bhagat & Others), Village :Pakariya, Thana :Mirzachowki, Distt.: Sahibganj, Jharkhand (2.853 Ha).

(Proposal no.: SIA/JH/MIN/568762 /2026)

The distance of the forest from the boundary of the mine lease area is less than 500 meters.

As per the direction imposed in the interim order of the Hon'ble Jharkhand High Court, Ranchi in W.P (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand & Ors vide paragraph no. 62 (b) "The restriction on the grant of consents as above will now apply to the zone of 500 metres from the boundaries of forests/forest land insofar as stone mining is

concerned, and to the zone of 400 metres insofar as stone crushers are concerned, instead of 250 metres as provided in the notification dated 07.12.2015 or 18.10.2017; In short, the position prevailing before the issue of the impugned notifications is restored until the final disposal of this Petition. This is, of course, subject to any other statutory restrictions, if any, affecting such activities in such zones."

Hence, the consideration of the proposal is deferred until further orders from the Hon'ble Jharkhand High Court.

3. Dule Stone Deposit of M/s Ayachi Enterprises (Prop. : Shri Ravi Kumar), Village : Dule, Anchal :Mandro, Distt.: Sahibganj, Jharkhand (2.833 Ha).

(Proposal no.: SIA/JH/MIN/567650 /2026)

The distance of the forest from the boundary of the mine lease area is less than 500 meters.

As per the direction imposed in the interim order of the Hon'ble Jharkhand High Court, Ranchi in W.P (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand & Ors vide paragraph no. **62 (b)**" *The restriction on the grant of consents as above will now apply to the zone of 500 metres from the boundaries of forests/forest land insofar as stone mining is concerned, and to the zone of 400 metres insofar as stone crushers are concerned, instead of 250 metres as provided in the notification dated 07.12.2015 or 18.10.2017; In short, the position prevailing before the issue of the impugned notifications is restored until the final disposal of this Petition. This is, of course, subject to any other statutory restrictions, if any, affecting such activities in such zones."*

Hence, the consideration of the proposal is deferred until further orders from the Hon'ble Jharkhand High Court.

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4. Dhekjora Stone Deposit of M/s Shivam Stone Minerals (Partners : (i) Shri Dashrath Mandal (ii) Shri Mukhtar Ansari (iii) Shri Abhinay Kumar (iv) Shri Mahesh Kumar Bhadani), Village :Dhekjora, Thana :Govindpur, Distt.: Dhanbad, Jharkhand (1.898 Ha).

(Proposal no.: SIA/JH/MIN/561678 /2025)

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

This is a new project which has been taken for appraisal on 25.04.2026.

Project Sector: 1(a) Mining of Minerals, Category: B2.

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity – 51981 cum/annum or 140349 TPA

Project and Location Details:

Sl	Parameter	Details	
1	Project Name	: Dhekjora Stone Deposit	
2	Lessee	: M/s Shivam Stone Minerals (Partner-(1) Shri Dashrath Mandal, S/o-Late Degon Mandal, (2) Shri Mukhtar Ansari, S/o - Abdul Mian, (3) Shri Abhinay Kumar, S/o - Shri Dinesh Prasad Swarnakar, and (4) Shri Mahesh Kumar Bhadani, S/o -Late Kishunchand Ram Bhadani.	
3	Lessee Address	: M/s Shivam Stone Minerals Address-Gram+PO-Isri Bazar, Near Bus Stand, Thana-Nimiaghat, District-Giridih, (Jharkhand), Partner-(1) Shri Dashrath Mandal, S/o-Late Degon Mandal, Address-Kustonwadih, PO-Naitand, Thana-Dumri, District- Giridih, (2) Shri Mukhtar Ansari, S/o - Abdul Mian, Address-Gairya, PO Naitand, Thana-Saria, District-Giridih, (3) Shri Abhinay Kumar, S/o - Shri Dinesh Prasad Swarnakar, Gram-IsriBazar, PO-Isri, Thana-Nimiaghat, District-Giridih (4) Shri Mahesh Kumar Bhadani, S/o -Late Kishunchand Ram Bhadani, Gram-Isri Bazar, PO- Isri, Thana-Nimiaghat, District- Giridih.	
4	Lease Area	: 1.898 Ha.	4.69 Acre
5	Type of Land	: Non-Forest Raiyati Land	
6	Project Cost	: Capital: Rs. 55,20,000.00	
7	EMP Budget	: Capital: Rs.14,00,000.00	Recurring: Rs.5,99,575.00 per year
8	New or Expansion	: New	
9	Mineable Reserves	: 681131Tonnes	252270Cum
10	Mine Life	: 5 years	

11	Man power	:	20
12	Water Requirement	:	9.32 KLD
13	Water Source	:	By authorised hired water tankers
14	DG Set / power	:	50 KVA
15	Crusher	:	No crusher
16	Nearest Water Body	:	Seasonal Nala, approx, 480meter towards East direction as per Google Earth EMP submitted
17	Nearest Habitation	:	Nearest Habitation 210 meter towards ESE direction as per Google earth EMP submitted.
18	Nearest Rail Station	:	Dhanbad railway station which are about 13.64 Km
19	Nearest Air Port	:	Deoghar Airport (63.38Km)
20	Road & Highways	:	SH-13(Jamtara – Dhanbad Road)is about 1.22 Km from the project site. NH-419 (PakuriyaRoad) is about 3.88 Km from Project site.
21	Approach Road	:	approx, 20 meter
22	Cluster Certificate	:	There are two other mine exists within 500m radius. Total cluster area is 9.36acre.
23	Nearest Forest	:	The distance of reserved / protected forest is approx. 900 meter from proposed project site as per Divisional Forest Officer, Dhanbad, vide letter no.:1869, dated 30.07.2025
24	Distance of nearest ESZ of wildlife sanctuary or National Park	:	The project location is at approx. 18.91 km from the nearest Eco sensitive zone of Topchanchi wildlife sanctuary.

CO-ORDINATES

Pillar No.	Degree, Minute, Second	
	Latitude	Longitude
1	23° 53' 34.837" N	86° 30' 25.848" E
2	23° 53' 33.942" N	86° 30' 25.606" E
3	23° 53' 33.984" N	86° 30' 26.117" E
4	23° 53' 33.520" N	86° 30' 25.965" E
5	23° 53' 33.633" N	86° 30' 25.531" E
6	23° 53' 32.641" N	86° 30' 25.401" E
7	23° 53' 31.941" N	86° 30' 25.162" E
8	23° 53' 31.273" N	86° 30' 24.695" E
9	23° 53' 30.675" N	86° 30' 25.914" E
10	23° 53' 31.058" N	86° 30' 26.113" E
11	23° 53' 30.839" N	86° 30' 26.478" E
12	23° 53' 30.300" N	86° 30' 26.324" E
13	23° 53' 30.775" N	86° 30' 25.265" E
14	23° 53' 29.427" N	86° 30' 24.614" E
15	23° 53' 28.708" N	86° 30' 26.025" E
16	23° 53' 28.095" N	86° 30' 27.476" E

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17	23° 53' 27.748" N	86° 30' 28.431" E
18	23° 53' 28.750" N	86° 30' 29.066" E
19	23° 53' 29.016" N	86° 30' 28.443" E
20	23° 53' 29.424" N	86° 30' 28.640" E
21	23° 53' 29.601" N	86° 30' 28.269" E
22	23° 53' 30.130" N	86° 30' 28.478" E
23	23° 53' 30.267" N	86° 30' 28.039" E
24	23° 53' 30.715" N	86° 30' 28.259" E
25	23° 53' 30.852" N	86° 30' 27.793" E
26	23° 53' 31.259" N	86° 30' 28.046" E
27	23° 53' 30.796" N	86° 30' 29.046" E
28	23° 53' 31.605" N	86° 30' 29.475" E
29	23° 53' 32.444" N	86° 30' 29.954" E
30	23° 53' 34.193" N	86° 30' 30.359" E
31	23° 53' 34.734" N	86° 30' 29.389" E
32	23° 53' 34.788" N	86° 30' 28.510" E
33	23° 53' 34.538" N	86° 30' 28.890" E
34	23° 53' 33.292" N	86° 30' 28.373" E
35	23° 53' 33.042" N	86° 30' 28.775" E
36	23° 53' 32.488" N	86° 30' 28.580" E
37	23° 53' 32.625" N	86° 30' 28.091" E
38	23° 53' 33.293" N	86° 30' 28.097" E
39	23° 53' 33.772" N	86° 30' 28.345" E
40	23° 53' 34.055" N	86° 30' 27.828" E
41	23° 53' 34.812" N	86° 30' 28.196" E
42	23° 53' 34.566" N	86° 30' 27.494" E
43	23° 53' 34.759" N	86° 30' 26.836" F

LAND DETAILS

Khata no.	Plot no.
56, 23, 62, 40, 2, 35, 70, 14, 28, 27, 65, 66, 57, 18, 41 & 42	940, 935, 936, 937, 938, 942, 943, 944, 945, 951, 953, 954, 958, 959, 961, 962, 967, 968, 969, 970, 971, 972, 973, 974, 975, 949 (P), 960, 930, 939, 941, 946, 964, 966, 995, 919, 927, 915, 917, 925, 920, 924, 916, 921, 901, 907, 899, 900, 908, 928, 930, 931, 933, 934, 998 (P), 999 (P), 922, 923, 904, 914 (P), 910 (P), 913 (P), 909 (P), 948, 950, 952, 956, 957, 963, 903 (P), 905, 902, 906, 929 and 932

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Dhanbad vide letter no. 1427/M, dated 09.09.2025.
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2	CO	:	The CO, Govindpur, Dhanbad vide letter no. 914, dated 30.07.2025 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyani & Register II. During the appraisal it was seen from the KML that habitation at a distance of 200 meters and water body at a distance of 480 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Dhanbad vide memo no. 1806/M, dated 05.12.2025 certified that 02 other mining lease area (2.67 Acre & 2.00 Acre) exists within 500 meters radius from proposed project site and total area is 9.36 Acre.
4	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 1409, dated 26.07.2025 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Dhanbad Forest Division vide letter no. 1869, dated 30.07.2025 certified that the distance of reserved / protected forest is 900 meters from proposed project site.
6	DSR	:	The DMO, Dhanbad has certified vide memo no. 1884/M, dated 11.12.2025 that this project is mentioned in approved DSR of Dhanbad District as a potential area (Page no. 163, Sl. No. 81).
7	Gram Sabha	:	Gram Sabha conducted on 28.08.2025.
8	Mine Plan Approval	:	Approved by DMO, Dhanbad vide Memo No. 1849/M, dated 09.12.2025.
9	Qualified Person	:	Shri Vidya Bhushan Mishra was present in the meeting and affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast semi- mechanized Method
2	Quarry Area	:	1.189Ha
3	Waste Generation	:	39209 cum
4	Stripping Ratio	:	1:0.15
5	Working Days	:	300
6	Bench: size & No	:	6m to 6m
7	Elevation of Mine	:	245m AMSL to 237m AMSL
8	Ground Level Elevation	:	237 m AMSL
9	Ultimate Working Depth	:	210 m AMSL (27mbgl)
10	Water Table	:	90-87 m AMSL (147-150 mbgl)
11	Topography of Mine	:	Area represents hillock.

12	Explosive Requirement	:	26 kg/day
13	Diesel/Fuel requirement	:	126 litre/day

Production Details

Year	Production of stone in cum	Production of stone in Tonnes	Overburden in cum	Intercalated waste in cum	Total Waste in cum
1 st	48681	131438	12369	2562	14931
2 nd	49476	133585	0	2604	2604
3 rd	50360	135971	0	2651	2651
4 th	51773	139787	8928	2725	11653
5 th	51981	140349	4635	2736	7371
Total	252271	681131	25932	13277	39209

Land Use

Category	Present Land Use(in Ha)	At the End of Scheme Period (in Ha.)	At the End of mine (in Ha.)
Excavation	0.368	1.189 (0.203 ha area shall be Backfilled)	1.189 (0.203 ha area shall be Backfilled, 0.789 ha converted into water reservoir & 0.197 ha shall be left as dead benches)
Safety zone	0.0	0.709 (Plantation)	0.709 (Plantation)
Total	0.368	1.898	1898
Unused Area	1.53	0.00	0.00
Total Lease area	1.898		

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.709	1135	1600 Tree per Hectare	1st Year	Pipal, Gulmohar Jackfruits, Mango, Jamun, Babul, Neem, Arjun, etc.
Length of Approach Road Area (m.)	20	40	2m X 2 m spacing in two rows both side		
Plantation in Backfilled area	0.203	325	1600 Tree per Hectare	At the End of Plan Period	
Plantation in dead	0.197	316			

bench					
Total		1816			

- 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.

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital	Recurring
Land			20,00,000.00	2,00,000.00
Infrastructure			15,00,000.00	1,50,000.00
Mining Equipment			0.00	38,00,000.00
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Dumper	1	200000		
Compressor	1	1000000		
Water Sprinkler	1	600000		
Rock Breaker	2	600000		
Excavator	2	800000		
Loader	2	600000		
Water Facility for Domestic Purpose "0.20" KLD (Annual Water Demand "60"KL @4L per Tanker, total number of tanker required ("24") and per tanker cost @Rs. 500)			0.00	12,000.00
Statutory Clearances			5,00,000.00	0.00
Mine Closure Cost for fencing around mine			1,20,000.00	0.00
Environment Management Plan (EMP) Cost			14,49,800.00	8,11,300.00
Total			55,69,800.00	49,73,300.00

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital	Recurring
1816TreePlantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	5,44,800.00	90,800.00
Water Tanker @Rs. 500 per Tanker for Dust Suppression (0.32 KLD) & Horticulture (10.89KLD) 0.32 + 10.89 = 11.21 KLD 11.21 KLD X 300 Days = 3363 KLD	0	4,20,500.00

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3363 KLD / 4 KLD = 841 Tankers		
Environment Monitoring & Compliance	0	50,000.00
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF& CC	8,00,000.00	2,00,000.00
Garland Drain & Retaining wall	1,50,000.00	50,000.00
Total	14,49,800.00	8,11,300.00

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

S. no	Monitoring Parameters	No. of Locations	Frequency of Monitoring
1	Ambient Air: Ambient Air Quality at appropriate location for PM10, PM2.5, SO2, NOx in the vicinity of the mine area. In the surrounding area covering project site only.	3 Stations	Six Monthly
2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise: Day & Night level Noise Monitoring.	4 stations	Six Monthly
4	Soil: Soil Monitoring, Qualitative and quantitative testing/analysis to check the soil fertility, porosity, texture, water holding capacity, etc.	2 stations	Six Monthly

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	<ul style="list-style-type: none"> It has been calculated that total 39209 cum in-situ waste shall be generated during this plan period, out of which 17644 cum (In situ) shall be utilized for approach & haul road maintenance. The rest waste material i.e. 21565 cum in situ 26956.19 cum loose & 22912.76 cum compact waste shall be utilized for backfilling and dumping. During the first year 2565 cum waste shall be utilized for backfilling of excavated part of safety zone in north western part and 4901 cum waste of first year and generated waste from 2nd year to 3rd year shall be temporarily dumped in the north eastern part of the applied lease. During the fourth & fifth year the generated waste and waste materials of past dumping shall be removed and used for backfilling in northern part and it will cover 0.203ha.

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Air Quality Management	<ul style="list-style-type: none"> • Wet drilling and use of sharp drill bits to minimize dust generation. • Controlled blasting using optimum explosive charge during favorable weather conditions. • Regular maintenance of diesel equipment and vehicles to reduce emissions. • Water sprinkling on haul roads, loading/unloading points, and working areas. • All transport vehicles will have valid PUC certificates. • Greenbelt and roadside plantation to act as dust and noise barriers.
Water Quality Management	<ul style="list-style-type: none"> • Mining will be confined only above the Ground Water Table (GWT). • Rainwater accumulated in the pit will be collected and pumped out regularly during monsoon. • Settling sump will be provided to desilt pumped out of mine-pit and collected through garland drain before discharge into natural drainage. • Garland and foot drains will be constructed around the quarry to control surface runoff. • Sewage from rest shelters will be treated through septic tank-soak pit systems. • Foot drain would be provided around the external dump, if any.
Noise Quality Management	<ul style="list-style-type: none"> • Mining activities will be restricted to daytime and carried out with controlled blasting techniques. • Acoustic enclosures and mufflers will be provided for drilling and DG set operations. • Regular maintenance of mining machinery to minimize vibration and noise. • Greenbelt development around the lease boundary to attenuate noise propagation. • Use of delayed blasting technique to minimize the adverse impact of vibration.
Soil Quality Management	<ul style="list-style-type: none"> • Topsoil will be carefully removed and stored separately for future use in plantation and reclamation. • Garland drains and retaining walls will prevent soil erosion and siltation. • Spillage of oil or fuel will be avoided; impervious flooring and oil traps provided near storage areas • Post-mining, the area will be rehabilitated using stored topsoil and native vegetation
Flora & Fauna management	<ul style="list-style-type: none"> • No tree felling will be undertaken without obtaining permission from the competent authority. • Greenbelt and plantation will be developed using native species along approach roads and lease periphery (7.5m Safety Zone). • Dust suppression measures will minimize impact on surrounding vegetation
Socio Economy:	<ul style="list-style-type: none"> • Priority employment to local people in mining and ancillary activities. • Community development initiatives such as tree plantation drives, road maintenance, and local infrastructure support. • Awareness programs on safety, hygiene, and environmental protection

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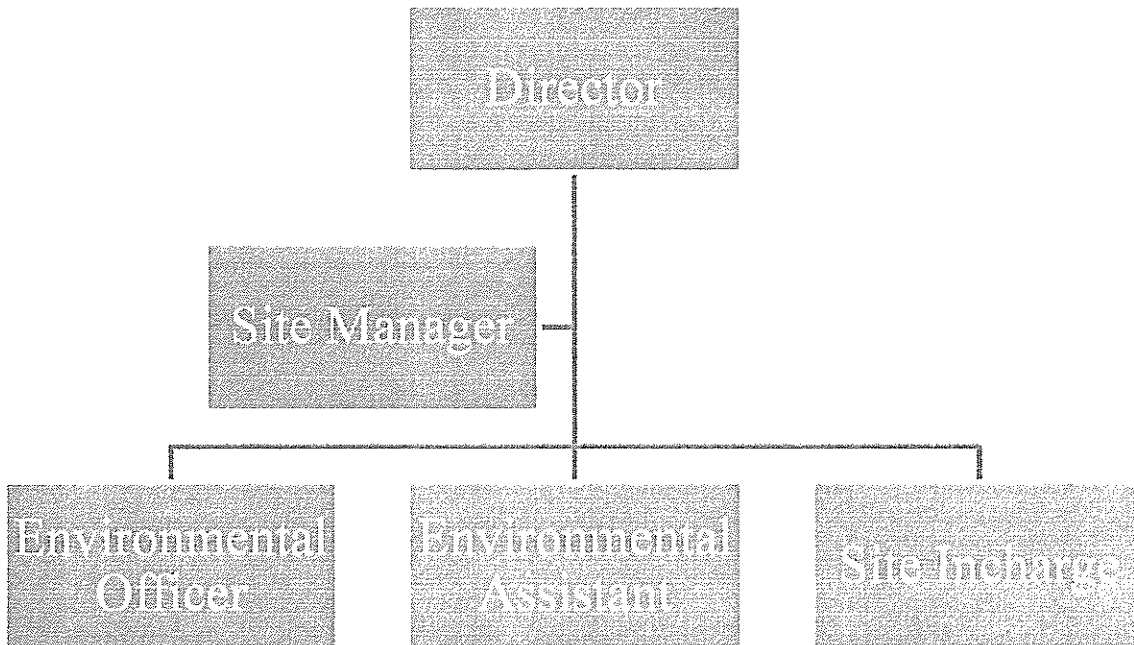
Monitoring & Reporting:	<ul style="list-style-type: none"> • Periodic monitoring of air, water (ground & surface), noise, and soil quality as per CPCB and SPCB guidelines. • All monitoring reports will be submitted to statutory authorities as per the compliance schedule. • Corrective measures will be taken immediately if any deviation from standards is observed.
Risk & Hazard	<p>Activities which are likely to create risk are: Temporary Storage of Explosives, Charging of Explosives, Blasting, Drilling, Bench Formation, Loading / Unloading, Transportation</p> <p>Proposed Preventive measures:</p> <ul style="list-style-type: none"> ▪ Overall slope angles of benches will be maintained at 45°. ▪ Unmanageable heights are not created. ▪ Loose sides are properly dressed. ▪ No loose stone or debris will be permitted to remain on the top of the bench or side of any excavation (Regulation 106(4) of MMR 1961). ▪ No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961) ▪ It will be ensured that the drilling equipment is suitable for the job. ▪ The person in charge of the drilling machine is competent to carry out the drilling operation; part of the training includes instructions to always face towards the open edge of the bench so that any inadvertent backward step is away from the edge. ▪ Provision of portable rail fencing between the drilling operations and the edge of the bench ▪ Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear. ▪ Restricted access to the area to all persons except those necessary for the drilling operation. ▪ Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation. ▪ In case due to any reason, wet drilling is not possible (due to non-availability of water), exhaust/ vacuum system will be provided which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose. ▪ Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
Blasting & Handling of Explosives	<ul style="list-style-type: none"> ▪ Blast hole geometry shall be properly designed. ▪ Blast site shall be wetted before and after blasting operations are completed. ▪ Only optimum quantity of permissible explosives shall be used so that the vibrations do not damage the structures/houses if the quarrying operations are close to human habitation. ▪ Blasting shall be conducted only during favourable weather conditions and only during the day time and permissible hours. ▪ While carrying out blasting operations near habitations, wide publicity will be given in the local area through announcement and other available media so that local people become aware of the blasting activities being undertaken in the area and take appropriate

	<p>precautions.</p> <ul style="list-style-type: none"> ▪ The vibrations should be monitored periodically in consultation with the local Mining authorities. ▪ Use of explosives is specialist work. Planning for a round of shots is necessary to ensure that the face is properly surveyed, holes correctly drilled, direction logged, the weight of explosive suitable for good fragmentation and the continuity of the initiator are but a few of the steps necessary to ensure its safe use. ▪ Proper and safe storage of explosives in approved and Licensed Magazine. ▪ Proper security system to prevent theft/ pilferage, unauthorized entry into Magazine area and checking authorized persons to prevent carrying of match box, lights, mobile phones, cigarette or Bidi etc. will be put in place. ▪ Explosives shall be conveyed in special containers. ▪ Explosives and detonators shall not be carried in the same container. ▪ The holes which have been charged with explosives will not be left unattended till blasting is completed.
Health Hazards	<p>Health hazards should be interpreted as being harmful dust and noise which is emitted during surface mining operations. All suitable steps and precautions will be undertaken to ensure minimum health hazard. Provision of use of Personal Protective Equipment (PPE) will be kept. The PPE shall be of good make and quality, wherever possible ISI certified, suitable for the hazard e.g. a dust respirator fitted with the correct filter to capture the particulate hazardous dust and maintained to recommended standards. As personal protective equipment only affords limited protection it will only be used as a last resort and as an interim arrangement until other steps are taken to reduce the risk of personal injury to an acceptable level</p>
Accident Prevention	<ul style="list-style-type: none"> ▪ Mine road shall be made smooth regularly with a road roller. ▪ Mine road will be made sufficiently wide to keep two-way traffic. Regular water sprinkling will be done on mine road and haul road to avoid suspension of dust. ▪ All transportation within the mine lease area should be carried out directly under the supervision and control of management. ▪ The vehicles will be maintained in good working condition and checked thoroughly at least once a month by the competent person authorized for the purpose by the management. ▪ Navigation signs will be provided at each and every turning point up to the mainroad (wherever required). ▪ To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating.

Organizational Structure of Environment Management Cell:

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EMP Cell structure

The EMP Cell is committed to ensuring environmental sustainability and compliance with regulatory requirements for the Stone Mining Project. With a clear structure, roles, and responsibilities, the EMP Cell is equipped to manage environmental impacts and promote sustainable practices.

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 than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.

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- I. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

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 Dhekjora Stone Deposit of M/s Shivam Stone Minerals (Partners : (i) Shri Dashrath Mandal (ii) Shri Mukhtar Ansari (iii) Shri Abhinay Kumar (iv) Shri Mahesh Kumar Bhadani), Village : Dhekjora, Thana : Govindpur, Distt.: Dhanbad, Jharkhand (1.898 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II along with following specific conditions :

- I. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- II. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- III. The Deputy Commissioner through District Mining Officer will ensure that the mines owner of the respective leases to complete the plantation and maintenance in a time bound manner.
- IV. Suitable plant species of not less than 2 M height to be planted equal to twice the area of saplings proposed in Safety zone. This is to be planted in land available near mines and outside safety zone. This will be in addition to plantation in safety zone. Newly planted saplings to be maintained for minimum 3 years with Geo-Tagged photographs.
- V. Dedicated water tanker to be provided for mine. The tanker to be used for spraying water on haul road and for irrigating newly planted saplings only. Sprinkling to be done such that the haul road is kept moistened all the time with Geo-Tagged photographs.
- VI. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests .Summary findings of same to submitted along with 6 monthly compliance.
- VII. Ensure use of Quality PPEs equivalent not less than 3M make. Records of same to be maintained and submitted with 6 monthly compliance report with Geo-Tagged photographs.
- VIII. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- IX. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.



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5. Makandu Stone Deposit of M/s Hilltop Infratech (Partner : Shri Shiv Kumar & Others),
Village :Makandu, Anchal : Kuru, Distt.: Lohardaga, Jharkhand (2.554 Ha).

(Proposal no.: SIA/JH/MIN/569088 /2026)

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

This is a new project which has been taken for appraisal on 25.04.2026.

Project Sector: 1(a) Mining of Minerals, Category: B2.

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity –137858 cum/annum or 372217 TPA

Project and Location Details:

Sl	Parameter	Details	
1	Project Name	: MakanduStone Deposit	
2	Lessee	: M/s Hilltop Infratech Partner- Sri Shiv Kumar & Others,	
3	Lessee Address	: 4th Floor, Karni Heights, Club Road, District- Ranchi, State-Jharkhand	
4	Lease Area	: 2.554 Ha.	6.31Acres
5	Type of Land	: Non-Forest Raiyati Land	
6	Project Cost	: Rs 59,55,300/- or 59.553 Lakhs.	
7	EMP Budget	: Capital: Rs. 8,08,200/-	Recurring: Rs. 8,81,700/- per year
8	New or Expansion	: New	
9	Mineable Reserves	: 1821663 tones	6474690 Cum
10	Mine Life	: 5 years	
11	Man power	: 26	
12	Water Requirement	: 17.38 ~ 17.50 KLD	
13	Water Source	: By authorised hired water tankers	
14	DG Set / power	: 50 KVA	
15	Crusher	: No crusher	
16	Nearest Water Body	: Seasonal Nallah (As per Google Earth-380 m; EMP Submitted)	
17	Nearest Habitation	: Approx 760 km, towards SE direction.	
18	Nearest Rail Station	: Akashi Railway station, approx. 12.60 km towards SW direction.	
19	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 51.38 km towards ESE direction.	
20	Road & Highways	: NH- 39, Approx. 2.86 km towards North direction.	
21	Approach Road	: approx, 660 meters	
22	DMO Cluster	: There is one mining lease exists within 500 m radius Total cluster	

		area is 10.81 acre.
23	Nearest Forest	: The distance of reserved / protected forest is 550 meter from proposed project site as per Range Forest Officer, Lohardagavide letter no.:187, dated 09.10.2025. which is duly certified by DFO Lohardaga dated 23.04.2026
24	Distance of nearest ESZ of Wildlife Sanctuary or National Park	: The project location is at approx. 51.13 KM from the nearest Eco Sensitive Zone of Palamau Wildlife Sanctuary.

CO-ORDINATES

Pillar No.	Degree, Minute, Second	
	Latitude	Longitude
1.	23° 30' 55.098" N	84° 52' 11.939" E
2.	23° 30' 54.698" N	84° 52' 13.809" E
3.	23° 30' 54.302" N	84° 52' 13.803" E
4.	23° 30' 54.038" N	84° 52' 15.058" E
5.	23° 30' 49.353" N	84° 52' 14.209" E
6.	23° 30' 49.013" N	84° 52' 15.652" E
7.	23° 30' 46.918" N	84° 52' 15.256" E
8.	23° 30' 46.975" N	84° 52' 12.742" E
9.	23° 30' 46.325" N	84° 52' 12.463" E
10.	23° 30' 46.566" N	84° 52' 10.947" E
11.	23° 42' 49.639" N	84° 52' 10.916" E
12.	23° 42' 53.188" N	84° 52' 11.614" E

LAND DETAILS

Khata no.	Plot no.
168	1208
118	1209 & 1210
40	1195
73	1196

STATUTORY CLEARANCES

1	LOI / Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Officer, Lohardaga vide letter no. 44/M, dated 16.01.2026.
2	CO	: The CO, Kuru, Lohardaga vide letter no. 789, dated 08.10.2025 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyani. During the appraisal it was seen from the

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			KML that seasonal nallah at a distance of 380 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Lohardaga vide memo no. 191/M, dated 12.02.2026 certified that 02LoI (3.00 Acre & 1.50 Acre) exists within 500 meters radius from proposed project site and total area is 10.81 Acre.
4	DFO Wild Life	:	DFO, Wildlife Division, Ranchi vide letter no. 99, dated 13.02.2026 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Lohardaga Forest Division vide letter no. 1160, dated 09.10.2025 certified that the distance of reserved / protected forest is more than 250 meters from proposed project site. Again it has been duly clarified by Range Forest Officer, Kuru Range vide letter no. 187, dated 09.10.2025 and certified by Divisional Forest Officer, Lohardaga Forest Division that distance of project area from forest boundary is 550 meters .
6	DSR	:	The DMO, Lohardaga has certified vide memo no. 197/M, dated 14.02.2026 that this project is mentioned in approved DSR of Lohardaga District as an Annexure iv of Zone 9.
7	Gram Sabha	:	BDO, Kuru, Lohardaga vide letter no. 980/ Sa. Dated 04.10.2025 informed that Gram Sabha conducted on 04.10.2025.
8	Mine Plan Approval	:	Approved by DMO, Lohardaga vide Memo No. 190/M, dated 12.02.2026.
10	Qualified Person	:	Shri Vidya Bhushan Mishra was present in the meeting and affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast semi- mechanized Method
2	Quarry Area	:	2.008 Ha
3	Waste Generation	:	85860 cum in-situ waste shall be generated for plan period.
4	Stripping Ratio	:	1:0.13
5	Working Days	:	300
6	Bench: size & No	:	6m to 6m
7	Elevation of Mine	:	689m AMSL to 699 m AMSL
8	Ground Level Elevation	:	645 m AMSL
9	Ultimate Working	:	656 m AMSL (43mbgl)

	Depth		
10	Water Table	:	640-637 m AMSL (49-52mbgl)
11	Topography of Mine	:	Area represents a small hillock.
12	Explosive Requirement	:	31 kg/day
13	Diesel/Fuel requirement	:	128 litre/day

Production Details

Year	Production of Stone		Overburden in cum	Intercalated Waste in cum	Total Waste In cum
	(cum)	(tons)			
1 st	133327	359982	40174	7017	47191
2 nd	133830	361342	0	7044	7044
3 rd	134435	362973	0	7076	7076
4 th	137858	372217	0	7256	7256
5 th	135240	365148	10176	7118	17294
Total	674690	1821662	50350	35511	85861

Land Use

Land Utilization	Existing Land use (Ha.)	At the end of plan period (Ha)	At Conceptual period (Ha)
Quarry	NIL	2.008	2.008 (0.086 ha area shall be Backfilled, 1.398 ha converted in to water reservoir & 0.524 ha shall be left as dead benches)
Safety Zone	NIL	0.546	0.546
Total	NIL	2.554	2.554
Unused Land	2.554	0.00	0.00
Total Lease Area	2.554		

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.546	874	tree per Hectare	1st Year	Gulmohar Jackfruits, Mango, Jamun, Babul, Neem, Arjun, etc.
Length of Approach Road Area (m.)	660	1320	2m X 2 m spacing in two rows both side		
Planation in Backfilled area	0.086	138	1600 Tree per Hectare	At the end of life of mine	

Plantation In Dead bench area	0.524	839			
Total		3171			

- 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.

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital(Rs.)	Recurring(Rs.)
Land			25,54,000	2,55,400
Infrastructure			15,00,000	1,50,000
Mining Equipment				
Equipment	Quantity	Rent per year		
Dumper	4	800000		
Compressor	1	1000000		
Water Sprinkler	1	600000		
Rock Breaker	3	600000		
Excavator	2	800000		
Loader	2	600000		
@Per Dumper-2,00,000/- @Per Compressor-10,00,000/- @Per Water Sprinkler -6,00,000/- @Per Rock Breaker-2,00,000/- @Per Excavator-4,00,000/- @Per Loader-3,00,000/-			0.00	44,00,000
Water Facility for Domestic Purpose "0.26" KLD (Annual Water Demand "78"KL @4L per Tanker, total number of tanker required ("20") and per tanker cost @Rs. 500)			0.00	10,000
Statutory Clearances			6,00,000	0.00
Mine Closure Cost for fencing around mine			2,00,000	0.00
Mine Closure Cost for Plantation of "977" number of trees @Rs. 300 per tree for plant & @Rs. 50 per tree for maintenance			2,93,100	48,850
Environment Management Plan (EMP) Cost			8,08,200	8,81,700
Total			59,55,300	57,45,950

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital	Recurring
2194 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	6,58,200	1,09,700
Water Tanker @Rs. 500 per Tanker for Dust Suppression (3.96 KLD) & Horticulture (13.16 KLD) 3.96 + 13.16 = 17.12 KLD 17.12 KLD X 300 Days = 5136 KLD 5136 KLD / 4 KLD = 1284 Tankers	0	6,42,000
Environment Monitoring & Compliance	0	50,000
Garland Drain & Retaining wall	1,50,000	80,000
Total	8,08,200	8,8,1700

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

S. no.	Monitoring Parameters	No. of Locations	Frequency of Monitoring
1	Ambient Air: Ambient Air Quality at appropriate location for PM10, PM2.5, SO2, NOx in the vicinity of the mine area. In the surrounding area covering project site only.	3 Stations	Six Monthly
2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise: Day & Night level Noise Monitoring.	4 stations	Six Monthly
4	Soil: Soil Monitoring, Qualitative and quantitative testing/analysis to check the soil fertility, porosity, texture, water holding capacity, etc.	2 stations	Six Monthly

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	<ul style="list-style-type: none"> It has been calculated that total 85860 cum in-situ waste shall be generated during this plan period out of which 50863 cum (In situ) shall be utilized for approach & haul road maintenance. The rest waste material 34997 cum in situ 43746.53 cum loose & 37184.55 cum compact waste shall be temporary dumped on the northern part of the applied lease area up to the fourth year. At fifth year the generated waste and waste materials of past dumping shall be removed and used for backfilling of exhausted part of quarry at southern part and it will cover about 0.086ha area

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Air Quality Management	<ul style="list-style-type: none"> • Wet drilling and use of sharp drill bits to minimize dust generation. • Controlled blasting using optimum explosive charge during favorable weather conditions. • Regular maintenance of diesel equipment and vehicles to reduce emissions. • Water sprinkling on haul roads, loading/unloading points, and working areas. • All transport vehicles will have valid PUC certificates. • Greenbelt and roadside plantation to act as dust and noise barriers.
Water Quality Management	<ul style="list-style-type: none"> • Mining will be confined only above the Ground Water Table (GWT). • Rainwater accumulated in the pit will be collected and pumped out regularly during monsoon. • Settling sump will be provided to desilt pumped out of mine-pit and collected through garland drain before discharge into natural drainage. • Garland and foot drains will be constructed around the quarry to control surface runoff. • Sewage from rest shelters will be treated through septic tank-soak pit systems. • Foot drain would be provided around the external dump, if any.
Noise Quality Management	<ul style="list-style-type: none"> • Mining activities will be restricted to daytime and carried out with controlled blasting techniques. • Acoustic enclosures and mufflers will be provided for drilling and DG set operations. • Regular maintenance of mining machinery to minimize vibration and noise. • Greenbelt development around the lease boundary to attenuate noise propagation. • Use of delayed blasting technique to minimize the adverse impact of vibration.
Soil Quality Management	<ul style="list-style-type: none"> • Topsoil will be carefully removed and stored separately for future use in plantation and reclamation. • Garland drains and retaining walls will prevent soil erosion and siltation. • Spillage of oil or fuel will be avoided; impervious flooring and oil traps provided near storage areas • Post-mining, the area will be rehabilitated using stored topsoil and native vegetation
Flora & Fauna management	<ul style="list-style-type: none"> • No tree felling will be undertaken without obtaining permission from the competent authority. • Greenbelt and plantation will be developed using native species along approach roads and lease periphery (7.5m Safety Zone). • Dust suppression measures will minimize impact on surrounding vegetation
Socio Economy:	<ul style="list-style-type: none"> • Priority employment to local people in mining and ancillary activities. • Community development initiatives such as tree plantation drives, road maintenance, and local infrastructure support. • Awareness programs on safety, hygiene, and environmental protection
Monitoring & Reporting:	<ul style="list-style-type: none"> • Periodic monitoring of air, water (ground & surface), noise, and soil quality as per CPCB and SPCB guidelines. • All monitoring reports will be submitted to statutory authorities as per

	<p>the compliance schedule.</p> <ul style="list-style-type: none"> • Corrective measures will be taken immediately if any deviation from standards is observed.
Risk & Hazard	<p>Activities which are likely to create risk are: Temporary Storage of Explosives, Charging of Explosives, Blasting, Drilling, Bench Formation, Loading / Unloading, Transportation</p> <p>Proposed Preventive measures:</p> <ul style="list-style-type: none"> ▪ Overall slope angles of benches will be maintained at 45°. ▪ Unmanageable heights are not created. ▪ Loose sides are properly dressed. ▪ No loose stone or debris will be permitted to remain on the top of the bench or side of any excavation (Regulation 106(4) of MMR 1961). ▪ No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961) ▪ It will be ensured that the drilling equipment is suitable for the job. ▪ The person in charge of the drilling machine is competent to carry out the drilling operation; part of the training includes instructions to always face towards the open edge of the bench so that any inadvertent backward step is away from the edge. ▪ Provision of portable rail fencing between the drilling operations and the edge of the bench ▪ Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear. ▪ Restricted access to the area to all persons except those necessary for the drilling operation. ▪ Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation. ▪ In case due to any reason, wet drilling is not possible (due to non-availability of water), exhaust/ vacuum system will be provided which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose. ▪ Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
Blasting & Handling of Explosives	<ul style="list-style-type: none"> ▪ Blast hole geometry shall be properly designed. ▪ Blast site shall be wetted before and after blasting operations are completed. ▪ Only optimum quantity of permissible explosives shall be used so that the vibrations do not damage the structures/houses if the quarrying operations are close to human habitation. ▪ Blasting shall be conducted only during favourable weather conditions and only during the day time and permissible hours. ▪ While carrying out blasting operations near habitations, wide publicity will be given in the local area through announcement and other available media so that local people become aware of the blasting activities being

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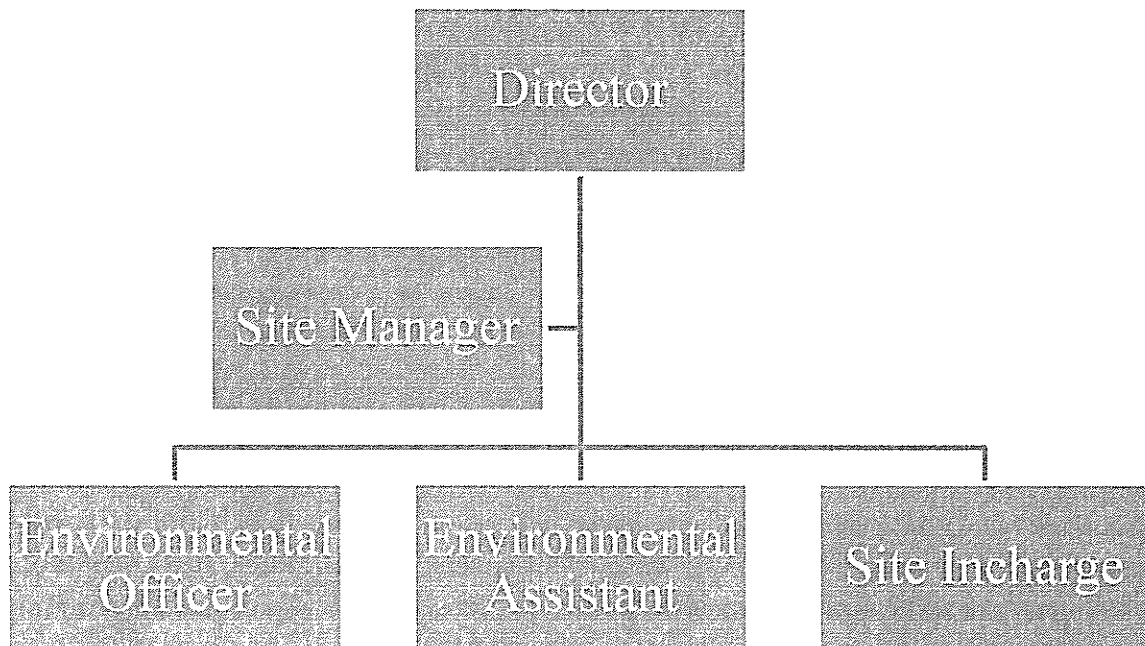
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	<p>undertaken in the area and take appropriate precautions.</p> <ul style="list-style-type: none"> ▪ The vibrations should be monitored periodically in consultation with the local Mining authorities. ▪ Use of explosives is specialist work. Planning for a round of shots is necessary to ensure that the face is properly surveyed, holes correctly drilled, direction logged, the weight of explosive suitable for good fragmentation and the continuity of the initiator are but a few of the steps necessary to ensure its safe use. ▪ Proper and safe storage of explosives in approved and Licensed Magazine. ▪ Proper security system to prevent theft/ pilferage, unauthorized entry into Magazine area and checking authorized persons to prevent carrying of match box, lights, mobile phones, cigarette or Bidi etc. will be put in place. ▪ Explosives shall be conveyed in special containers. ▪ Explosives and detonators shall not be carried in the same container. ▪ The holes which have been charged with explosives will not be left unattended till blasting is completed.
Health Hazards	<p>Health hazards should be interpreted as being harmful dust and noise which is emitted during surface mining operations. All suitable steps and precautions will be undertaken to ensure minimum health hazard. Provision of use of Personal Protective Equipment (PPE) will be kept.</p> <p>The PPE shall be of good make and quality, wherever possible ISI certified, suitable for the hazard e.g. a dust respirator fitted with the correct filter to capture the particulate hazardous dust and maintained to recommended standards. As personal protective equipment only affords limited protection it will only be used as a last resort and as an interim arrangement until other steps are taken to reduce the risk of personal injury to an acceptable level</p>
Accident Prevention	<ul style="list-style-type: none"> ▪ Mine road shall be made smooth regularly with a road roller. ▪ Mine road will be made sufficiently wide to keep two-way traffic. Regular water sprinkling will be done on mine road and haul road to avoid suspension of dust. ▪ All transportation within the mine lease area should be carried out directly under the supervision and control of management. ▪ The vehicles will be maintained in good working condition and checked thoroughly at least once a month by the competent person authorized for the purpose by the management. ▪ Navigation signs will be provided at each and every turning point up to the main road (wherever required). ▪ To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating.

Organizational Structure of Environment Management Cell:

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EMP Cell structure

The EMP Cell is committed to ensuring environmental sustainability and compliance with regulatory requirements for the Stone Mining Project. With a clear structure, roles, and responsibilities, the EMP Cell is equipped to manage environmental impacts and promote sustainable practices.

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 than necessary permission shall be taken from the competent authority.

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- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

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 Makandu Stone Deposit of M/s Hilltop Infratech (Partner : Shri Shiv Kumar & Others), Village : Makandu, Anchal : Kuru, Distt.: Lohardaga, Jharkhand (2.554 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II along with following specific conditions :

- I. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- II. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "EkPed Ma KeNaam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- III. The Deputy Commissioner through District Mining Officer will ensure that the mines owner of the respective leases to complete the plantation and maintenance in a time bound manner.
- IV. Suitable plant species of not less than 2 M height to be planted equal to twice the area of saplings proposed in Safety zone. This is to be planted in land available near mines and outside safety zone. This will be in addition to plantation in safety zone. Newly planted saplings to be maintained for minimum 3 years with Geo-Tagged photographs.
- V. Dedicated water tanker to be provided for mine. The tanker to be used for spraying water on haul road and for irrigating newly planted saplings only. Sprinkling to be done such that the haul road is kept moistened all the time with Geo-Tagged photographs.
- VI. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests. Summary findings of same to be submitted along with 6 monthly compliance.
- VII. Ensure use of Quality PPEs equivalent not less than 3M make. Records of same to be maintained and submitted with 6 monthly compliance report with Geo-Tagged photographs.
- VIII. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- IX. Failing of any of terms & conditions mentioned in EC can lead to revocation /

cancellation of EC.

6. Siyalpahari Stone Deposit of Shri Atmanand Upadhyay, Village :Siyalpahari, Anchal :Shikaripara, Distt. : Dumka, Jharkhand (2.89 Ha).

(Proposal no.: SIA/JH/MIN/ 569741 /2026)

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

This is a new project which has been taken for appraisal on 25.04.2026.

Project Sector: 1(a) Mining of Minerals, Category: B1.

Application for Environmental Clearance (EC) after Terms of Reference (ToR).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 124th meeting held on 23.06.2025 - 27.06.2025 and SEIAA, Jharkhand has approved the ToRs in 124th meeting held on 15th&16thJuly, 2025. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2025-26/3797/2025/293, dated 23.07.2025. The final EIA / EMP submitted by PP to SEAC on 06.04.2026.

EC Application for: Proposed Capacity- 134055 cum/year or 361948 TPA

Project and Location Details:

Sl	Parameter	Details	
1	Project Name	: Siyalpahari Stone Deposit	
2	Lessee:	: Sri Atmanand Upadhyay At Village + P.O.- Rampur Kala, Thana - Khaira, District - Saran, Pin Code - 841414, State - Bihar	
3	Lease Address	: Village – Siyalpahari, Anchal - Shikaripara, District – Dumka, State - Jharkhand	
4	Lease Area	: 2.89 Ha	Acres- 7.15Acres
5	Type of Land	: Non- Forest (Raiyati Land)	
6	Project Cost	: Rs. 124.26Lakhs	
7	EMP Budget	: Capital: Rs. 24.66 lakhs	Recurring: Rs. 10.82Lakh/year
8	New or Expansion	: New	
9	Mineable Reserves	: cum.:670132cum	Tonnes:1809355 tones

10	Mine Life	:	5years
11	Man power	:	48
12	Water Requirement	:	11.22 ~ 11.50 KLD (Drinking: 0.48 KLD,Dust Suppression:0.54KLD, Plantation:10.2KLD)
13	Water Source	:	Water will be taken from nearby village
14	DG Set / power	:	500 KVA
15	Crusher	:	No crusher
16	Nearest Water Body	:	Seasonal Nala, approx 620 m in NNE direction.
17	Nearest Habitation	:	Partabpur, Approx 360meterin East direction as per Google Earth EMP Submitted.
18	Nearest Rail Station	:	Pinargaria Railway station, approx. 4.97 km towards NNW direction
19	Nearest Air Port	:	Deoghar Airport, approx. 100.95 km towards WNW direction
20	Road & Highways	:	NH-114A, Approx. 3.20 km in North direction.
21	Approach Road	:	approx, 90 meter
22	DMO Cluster	:	Five another mining lease area exists within 500 m radius from proposed project site and their total cluster area is 34.918acre.
23	Nearest Forest	:	The distance of reserved / protected forest is 2240 meter from proposed project site as per Divisional Forest Officer, Dumka, vide letter no.:867, dated 16.04.2025
23	Distance of nearest ESZ of wildlife sanctuary or National Park	:	The project location is at approx. 191.59km from the nearest Eco sensitive zone of Dalma wildlife Project.

CO-ORDINATES

SL. NO.	LATITUDE	LONGITUDE
P-1	24°10' 6.834"	87°39' 18.044"
P-2	24°10' 6.017"	87°39' 19.986"
P-3	24°10' 5.199"	87° 39' 21.927"
P-4	24°10' 4.217"	87°39' 21.483"
P-5	24°10' 3.216"	87°39' 21.014"
P-6	24°10' 1.588"	87°39' 20.598"
P-7	24°9' 59.693"	87° 39' 20.070"
P-8	24°9' 59.037"	87°39' 20.032"
P-9	24°9' 57.803"	87°39' 19.451"
P-10	24°9' 58.153"	87°39' 18.199"
P-11	24°9' 58.378"	87°39' 18.259"
P-12	24°9' 58.737"	87°39' 17.276"
P-13	24°9' 58.448"	87°39' 17.064"
P-14	24°9' 58.093"	87°39' 16.968"
P-15	24°9' 58.841"	87°39' 15.554"
P-16	24°9' 59.303"	87°39' 15.826"
P-17	24°10' 0.205"	87°39' 15.982"
P-18	24°10' 2.374"	87°39' 16.708"

P-19	24°10' 2.483"	87°39' 16.381"
P-20	24°10' 3.587"	87°39' 16.783"
P-21	24°10' 5.595"	87°39' 17.549"

LAND DETAILS

Khata no.	Plot no.
07 & 08	127, 128 (P), 129 (P), 130, 131 & 132 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Dumka vide letter no. 467/M, dated 04.03.2025.
2	CO	:	The CO, Shikaripara vide letter no. 159/Ra., dated 27.02.2025 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyani & Register II. During the appraisal it was seen from the KML that few houses at a distance of 350 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Dumka vide memo no. 659/M, dated 06.05.2025 certified that 02 other mining lease area (5.88 Acre & 6.01 Acre) and 03 LoI (7.16 Acre, 4.358 Acre & 4.36 Acre) exists within 500 m radius from proposed project site and total area is 34.918 Acre.
4	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 299, dated 25.02.2025 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Dumka Forest Division vide letter no. 867, dated 16.04.2025 certified that the distance of reserved / protected forest is 2240 meters from proposed project site.
6	DSR	:	The DMO, Dumka has certified vide memo no. 732/M, dated 24.05.2025 that this project is mentioned in approved DSR of Dumka District as a potential area (Page no. 318, Sl. No. 78).
7	Gram Sabha	:	Gram Sabha conducted on 22.01.2025.
8	Mine Plan Approval	:	Approved by DMO, Dumka vide Letter No. 650/M, dated 30.04.2025.
9	Baseline Monitoring Period	:	March 2025 to May 2025

10	Public Hearing	:	Public hearing conducted on 31.01.2026.
12	Qualified Person	:	Shri P.K. Sen was present in the meeting and affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast Mechanized Method
2	Quarry Area	:	2.35ha Life of Mine – 5Years
3	Waste Generation	:	Total 35268 cum intercalated waste & 29498 cum Gritty soil during the plan period
4	Stripping Ratio	:	1: 0.09
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	63 AMSL to 66AMSL
8	Ground Level Elevation	:	63 AMSL
9	Ultimate Working Depth	:	Up to 24AMSL (39 mbgl)
10	Water Table	:	16-18 AMSL (45-47mbgl)
11	Topography of Mine	:	The applied lease area represents a small hillock.
12	Explosive Requirement	:	110kg/day
13	Diesel/Fuel requirement	:	110 litre/day

Production Details

Year	Production of stone		Intercalated waste in cum	Removal of gritty soil		Bench RL
	in cum	in ton		in cum	in ton	
1 st Year	133950	361665	7050	16485	24728	66-54
2 nd Year	134019	361852	7054	13013	19520	66-48
3 rd Year	134054	361946	7055	000	000	54-42
4 th Year	134055	361948	7056	000	000	48-36
5 th Year	133993	361781	7053	000	000	42-24
Total	670071	1809192	35268	29498	44248	-

Land Use

Land Utilization	Existing Land use (Ha.)	At the end of plan period (Ha)	At Conceptual period (Ha)	Conceptual period (in ha.)		
				Public use	Water body	plantation
Quarry	Nil	2.35(including backfilling	2.35 (including backfilling 0.936	-	1.94	0.41 (Dead Bench

		0.936 ha.)	ha.)			Plantation)
Greenbelt Within Safety Barrier	Nil	0.54	0.54	-	-	0.54
Road	0.067	Nil	Nil	-	-	-
Temporary dump	0.519	Nil	Nil			
Total Area In Used	0.586	2.89	2.89	-	1.94	0.95
Balanced Area Unused	2.304	Nil	Nil	-	-	-
Total Applied Area	2.89	2.89	2.89	2.89		

ENVIRONMENT MANAGEMENT

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.54	864	1600 Tree per Hectare	1st Year	Mango, Arjun, Jackfruits, Jamun, Babul, Gulmohar, Neem, Pipal, etc.
Length of Approach Road Area (m.)	90	180	2m X 2 m spacing in two rows both side		
Plantation at Dead Bench (Ha.)	0.41	656	1600 Tree per Hectare		
Total		1700			

- 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.

Summary of Baseline Data:

Monitoring season – March 2025 to May 2025

Parameter	No. of Locations	Environmental Baseline Study
Ambient Air Quality Monitoring	8 locations	PM2.5- 27.04 $\mu\text{g}/\text{m}^3$ – 49.76 $\mu\text{g}/\text{m}^3$ PM10- 49.48 $\mu\text{g}/\text{m}^3$ – 91.11 $\mu\text{g}/\text{m}^3$ SO ₂ - 4.23 $\mu\text{g}/\text{m}^3$ - 10.23 $\mu\text{g}/\text{m}^3$ NO ₂ - 9.56 $\mu\text{g}/\text{m}^3$ – 19.01 $\mu\text{g}/\text{m}^3$
Noise level monitoring	8 locations	During daytime- 51.1 to 57.6 dB (A) During Night time- 39.5 to 42.5 dB (A)

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		Results were found within permissible limits
Water samples	Surface water – 2 locations	All parameters like pH (7.26 to 7.52), Chloride (40.0-48.92 mg/l) Dissolved Oxygen (5.5 to 7.2 mg/l), TDS (190.8 to 375mg/l), BOD (2.2 to 7.2mg/l), COD (18.0 to 23.4 mg/l) etc. are found within permissible limits.
	Ground water- 5 locations	All parameters like pH (7.21 to 7.84), Total Hardness (228 - 292 mg/l), TDS (419 – 528 mg/l), Chlorides (65.5-84.0mg/l), etc. are found within permissible limits & fit for consumption.
Soil Samples	5 locations	pH- 6.99 – 7.64, Conductivity- 327 - 482 µmhos/cm

Public Hearing (Action Plan) –

S. No.	Issue	Reply	Action Plan	Time Bound
1.	Employment	preference will be given to local people for employment based on eligibility and necessity	Direct and Indirect employment will be given to 48 Skilled & Un-Skilled persons Un-Skilled on priority basis..	To be hired within 3 months.
2.	Beautification of Manjhi Than	beautification of Manjhi Than will be done under	Budget of Rs.0.50 lakhs will be spent as capital cost for beautification of Manjhi Than	This will be done within 6 months to 1 year after the grant of EC.
3.	Deep boring	Deep boring will be done at the site identified by the villagers.	Installation of a hand pump with deep boring; Rs. 2.50 lakh capital cost and Rs. 0.50 lakh recurring cost..	This will be done within 6 months to 1 year after the grant of EC.
4.	Health Services	Arrangements will be made for primary treatment and medical camps.	Budget of Rs. 1.00 lakh will be spent on health check-up and medicine distribution camps	This will be done within 6 months to 1 year after the grant of EC.
5.	Education & Village Development	Village development and support for schools will be provided	Rs. 0.50 Lakh recurring cost for village development/stationary distribution in nearby schools.	This will be done within 6 months to 1 year after the grant of EC.
6.	Infrastructure (Ground	Support will be provided for	Budget for ground leveling Rs. 0.50 Lakh	This will be done within 6 months to 1

	Leveling)	leveling the football ground.	capital cost.	year after the grant of EC.
7.	Ambulance/ Vehicle Facility	An ambulance/vehicle will be made available for essential services	Budget of Rs. 1.00 lakh for ambulance/vehicle facilities.	This will be done within 6 months to 1 year after the grant of EC.
8.	Bathing Ghat	A bathing ghat will be built near the pond.	Budget for building of bathing ghat: Rs. 1.50 Lakh capital cost.	Within 6 months to 1 year after the grant of EC.
9.	Social Welfare (Sarees)	Sarees will be provided during festivals.	Budget for sarees distribution: Rs. 0.50 Lakh recurring cost.	Every year from the 1st year of mine operation.
10.	Community Facilities	A club house will be built and sports equipment provided	Rs. 1.50 Lakh capital cost for club house and Rs. 0.50 Lakh for sports kits.	Within 6 months to 1 year after the grant of EC.
Total			Capital cost : Rs. 8.0Lakh Recurring cost: Rs. 4.0Lakh	

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital	Recurring
Land			71,50,000	7,15,000
Infrastructure			15,00,000	1,50,000
Mining Equipment			0.00	65,90,000
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Wagon drill	2	8,00,000		
Excavator	4	16,00,000		
Compressor	2	20,00,000		
jack Hammer	3	90,000		
Rock Breaker	2	4,00,000		
Water Sprinkler	2	12,00,000		
Dumper	1	20,0000		
Loader	1	30,0000		
@Per wagon drill- 4,00,000/- @Per Excavator-4,00,000/- @Per Compressor-10,00,000/- @Per Jack Hammer- 30000/- @Per Rock Breaker-2,00,000/- @Per Water Sprinkler -6,00,000/- @Per Dumper-2,00,000/- @Per Loader-3,00,000/-				

Particulars	Capital	Recurring
Water Facility for Domestic Purpose "0.48" KLD (Annual Water Demand "144"KL @4L per Tanker, total number of tanker required ("36") and per tanker cost @Rs. 500)	0.00	18,000
Statutory Clearances	6,00,000	0.00
Mine Closure Cost for fencing around mine	2,00,000	0.00
Mine Closure Cost for Plantation of "1700" number of trees @Rs. 300 per tree for plant & @Rs. 50 per tree for maintenance	5,10,000	51,000
Environment Management Plan (EMP) Cost	24,66,000	10,82,100
Total	1,24,26,000	86,06,100

COST PROPOSED FOR EMP

Particulars	Capital	Recurring
1700 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	5,10,000	85,000
Water Tanker @Rs. 500 per Tanker for Dust Suppression (1.02 KLD) & Horticulture (10.2 KLD) 1.02 + 10.2 = 11.50 KLD 11.50 KLD X 300 Days = 3450 KLD 3450KLD / 4 KLD = 863 Tankers	0	4,31,500
Environment Monitoring & Compliance	0	50,000
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF& CC	11,56,000	1,15,600
Suggestions As per Public Hearing		
Budget for Beautification of Manjhi Than	50,000	-
Budget Installation of a hand pump with deep boring	2,50,000	50,000
Budget for primary treatment (i.e.- health check-up camps and medicine distribution)	-	1,00,000
Budget for village Development programme i.e. distribution of Stationary in nearby School.	-	50,000
Budget for ambulance	1,00,000	-
Budget for Leveling Football ground	50,000	-

Budget for Building of bathing Ghat	1,50,000	-
Budget for sarees distribution	-	50,000
Budget for Building club house	1,50,000	-
Budget for Football equipment/ Sports kit	50,000	-
Budget for Providing utensils during marriages	-	1,00,000
Budget for Deepening pond for irrigation	-	50,000
Total	24,66,000	10,82,100

Monitoring Parameters and Frequency of Monitoring

S. no	Monitoring Parameters	No. of Locations	Frequency of Monitoring
1	Ambient Air: Ambient Air Quality at appropriate location for PM10, PM2.5, SO2, NOx in the vicinity of the mine area. In the surrounding area covering project site only.	3 Stations	Six Monthly
2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise: Day & Night level Noise Monitoring.	4 stations	Six Monthly
4	Soil: Soil Monitoring, Qualitative and quantitative testing/analysis to check the soil fertility, porosity, texture, water holding capacity, etc.	2 stations	Six Monthly

SE Need based Survey detail

S. No.	Community Priority	Status	Need of the Community	Capital Cost	Recurring Cost
1.	Education	Moderate Level	School building repair and stationary distribution	-	0.50
2.	Medical Facilities	Very Poor	Health Camp for routine check-up, and medicine distribution	-	1.00
3.	Drinking Water	Moderate Level	Bore well required	2.50	0.50
4.	Employment	Poor	Employment is the major issue, and will be provided on the basis of capability		

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			and experience of local people	
TOTAL			2.50	2.00

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	Total 35268 cum intercalated waste & 29498 cum Gritty soil during the plan period, which shall 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.
Air Quality Management	<ul style="list-style-type: none"> • Wet drilling and use of sharp drill bits to minimize dust generation. • Controlled blasting using optimum explosive charge during favourable weather conditions. • Regular maintenance of diesel equipment and vehicles to reduce emissions. • Water sprinkling on haul roads, loading/unloading points, and working areas. • All transport vehicles will have valid PUC certificates. • Greenbelt and roadside plantation to act as dust and noise barriers.
Water Quality Management	<ul style="list-style-type: none"> • Mining will be confined only above the Ground Water Table (GWT). • Rainwater accumulated in the pit will be collected and pumped out regularly during monsoon. • Settling sump will be provided to desilt pumped out of mine-pit and collected through garland drain before discharge into natural drainage. • Garland and foot drains will be constructed around the quarry to control surface runoff. • Sewage from rest shelters will be treated through septic tank-soak pit systems. • Foot drain would be provided around the external dump, if any.
Noise Quality Management	<ul style="list-style-type: none"> • Mining activities will be restricted to daytime and carried out with controlled blasting techniques. • Acoustic enclosures and mufflers will be provided for drilling and DG set operations. • Regular maintenance of mining machinery to minimize vibration and noise. • Greenbelt development around the lease boundary to attenuate noise propagation. • Use of delayed blasting technique to minimize the adverse impact of vibration.
Soil Quality Management	<ul style="list-style-type: none"> • Topsoil will be carefully removed and stored separately for future use in plantation and reclamation. • Garland drains and retaining walls will prevent soil erosion and siltation. • Spillage of oil or fuel will be avoided; impervious flooring and oil traps provided near storage areas

	<ul style="list-style-type: none"> • Post-mining, the area will be rehabilitated using stored topsoil and native vegetation
Flora & Fauna management	<ul style="list-style-type: none"> • No tree felling will be undertaken without obtaining permission from the competent authority. • Greenbelt and plantation will be developed using native species along approach roads and lease periphery (7.5m Safety Zone). • Dust suppression measures will minimize impact on surrounding vegetation
Socio Economy:	<ul style="list-style-type: none"> • Priority employment to local people in mining and ancillary activities. • Community development initiatives such as tree plantation drives, road maintenance, and local infrastructure support. • Awareness programs on safety, hygiene, and environmental protection
Monitoring & Reporting:	<ul style="list-style-type: none"> • Periodic monitoring of air, water (ground & surface), noise, and soil quality as per CPCB and SPCB guidelines. • All monitoring reports will be submitted to statutory authorities as per the compliance schedule. • Corrective measures will be taken immediately if any deviation from standards is observed.
Risk & Hazard	<p>Activities which are likely to create risk are: Temporary Storage of Explosives, Charging of Explosives, Blasting, Drilling, Bench Formation, Loading / Unloading, Transportation</p> <p>Proposed Preventive measures:</p> <ul style="list-style-type: none"> ▪ Overall slope angles of benches will be maintained at 45°. ▪ Unmanageable heights are not created. ▪ Loose sides are properly dressed. ▪ No loose stone or debris will be permitted to remain on the top of the bench or side of any excavation (Regulation 106(4) of MMR 1961). ▪ No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961) ▪ It will be ensured that the drilling equipment is suitable for the job. ▪ The person in charge of the drilling machine is competent to carry out the drilling operation; part of the training includes instructions to always face towards the open edge of the bench so that any inadvertent backward step is away from the edge. ▪ Provision of portable rail fencing between the drilling operations and the edge of the bench ▪ Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear. ▪ Restricted access to the area to all persons except those necessary for the drilling operation. ▪ Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation. ▪ In case due to any reason, wet drilling is not possible (due to non-availability of water), exhaust/ vacuum system will be provided which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose.

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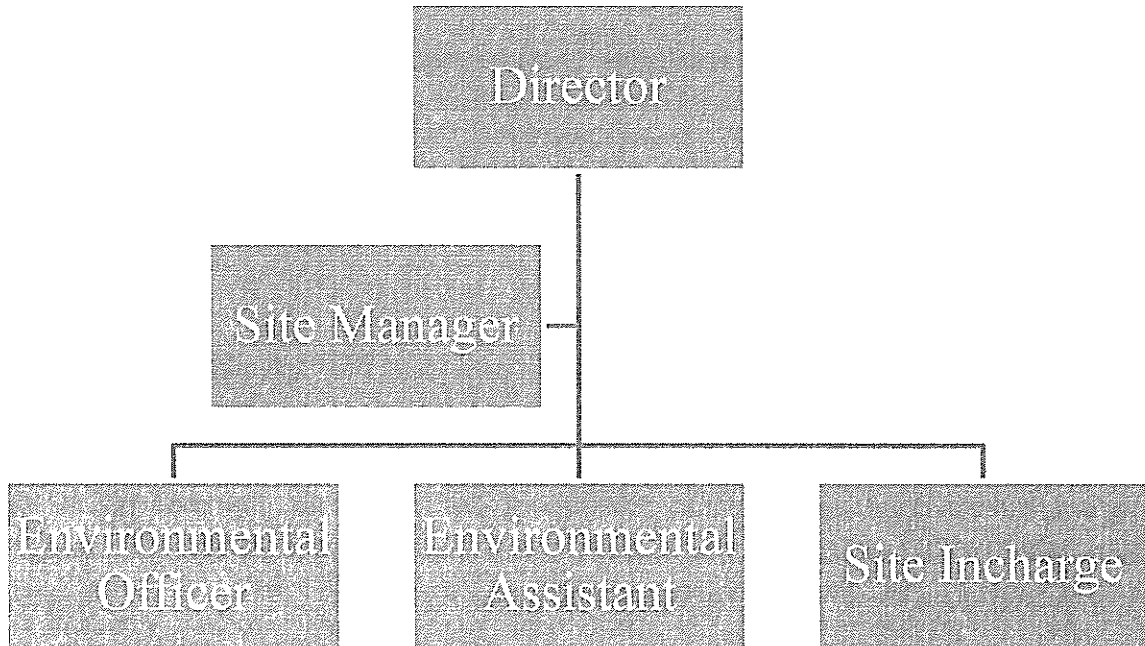
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	<ul style="list-style-type: none"> ▪ Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
Blasting & Handling of Explosives	<ul style="list-style-type: none"> ▪ Blast hole geometry shall be properly designed. ▪ Blast site shall be wetted before and after blasting operations are completed. ▪ Only optimum quantity of permissible explosives shall be used so that the vibrations do not damage the structures/houses if the quarrying operations are close to human habitation. ▪ Blasting shall be conducted only during favourable weather conditions and only during the day time and permissible hours. ▪ While carrying out blasting operations near habitations, wide publicity will be given in the local area through announcement and other available media so that local people become aware of the blasting activities being undertaken in the area and take appropriate precautions. ▪ The vibrations should be monitored periodically in consultation with the local Mining authorities. ▪ Use of explosives is specialist work. Planning for a round of shots is necessary to ensure that the face is properly surveyed, holes correctly drilled, direction logged, the weight of explosive suitable for good fragmentation and the continuity of the initiator are but a few of the steps necessary to ensure its safe use. ▪ Proper and safe storage of explosives in approved and Licensed Magazine. ▪ Proper security system to prevent theft/ pilferage, unauthorized entry into Magazine area and checking authorized persons to prevent carrying of match box, lights, mobile phones, cigarette or Bidi etc. will be put in place. ▪ Explosives shall be conveyed in special containers. ▪ Explosives and detonators shall not be carried in the same container. ▪ The holes which have been charged with explosives will not be left unattended till blasting is completed.
Health Hazards	<p>Health hazards should be interpreted as being harmful dust and noise which is emitted during surface mining operations. All suitable steps and precautions will be undertaken to ensure minimum health hazard. Provision of use of Personal Protective Equipment (PPE) will be kept. The PPE shall be of good make and quality, wherever possible ISI certified, suitable for the hazard e.g. a dust respirator fitted with the correct filter to capture the particulate hazardous dust and maintained to recommended standards. As personal protective equipment only affords limited protection it will only be used as a last resort and as an interim arrangement until other steps are taken to reduce the risk of personal injury to an acceptable level</p>
Accident Prevention	<ul style="list-style-type: none"> ▪ Mine road shall be made smooth regularly with a road roller. ▪ Mine road will be made sufficiently wide to keep two-way traffic. Regular water sprinkling will be done on mine road and haul road to avoid suspension of dust. ▪ All transportation within the mine lease area should be carried out directly under the supervision and control of management. ▪ The vehicles will be maintained in good working condition and

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	<p>checked thoroughly at least once a month by the competent person authorized for the purpose by the management.</p> <ul style="list-style-type: none"> ▪ Navigation signs will be provided at each and every turning point up to the mainroad (wherever required). ▪ To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating.
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Organizational Structure of Environment Management Cell:



EMP Cell structure

The EMP Cell is committed to ensuring environmental sustainability and compliance with regulatory requirements for the Stone Mining Project. With a clear structure, roles, and responsibilities, the EMP Cell is equipped to manage environmental impacts and promote sustainable practices.

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.

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- 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 than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

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 Siyalpahari Stone Deposit of Shri Atmanand Upadhyay, Village :Siyalpahari, Anchal :Shikaripara, Distt. : Dumka, Jharkhand (2.89 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II along with following specific conditions :

- I. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- II. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "EkPed Ma KeNaam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- III. The Deputy Commissioner through District Mining Officer will ensure that the mines owner of the respective leases to complete the plantation and maintenance in a time bound manner.
- IV. Suitable plant species of not less than 2 M height to be planted equal to twice the area of saplings proposed in Safety zone. This is to be planted in land available near mines and outside safety zone. This will be in addition to plantation in safety zone. Newly planted saplings to be maintained for minimum 3 years with Geo-Tagged photographs.
- V. Dedicated water tanker to be provided for mine. The tanker to be used for spraying water on haul road and for irrigating newly planted saplings only. Sprinkling to be done such that the haul road is kept moistened all the time with Geo-Tagged photographs.
- VI. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests

- .Summary findings of same to submitted along with 6 monthly compliance.
- VII. Ensure use of Quality PPEs equivalent not less than 3M make. Records of same to be maintained and submitted with 6 monthly compliance report with Geo-Tagged photographs.
 - VIII. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
 - IX. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

7. Stone Mine of M/s Kohitur Stone Works (Partner : Md. Irshad Ali), Mouza :Mirapara, Block : Borio, Distt.: Sahibganj, Jharkhand (1.42 Ha).


(Proposal no.: SIA/JH/MIN/570808 /2026)

The distance of the forest from the boundary of the mine lease area is less than 500 meters.

As per the direction imposed in the interim order of the Hon'ble Jharkhand High Court, Ranchi in W.P (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand & Ors vide paragraph no. **62 (b)** "The restriction on the grant of consents as above will now apply to the zone of 500 metres from the boundaries of forests/forest land insofar as stone mining is concerned, and to the zone of 400 metres insofar as stone crushers are concerned, instead of 250 metres as provided in the notification dated 07.12.2015 or 18.10.2017; In short, the position prevailing before the issue of the impugned notifications is restored until the final disposal of this Petition. This is, of course, subject to any other statutory restrictions, if any, affecting such activities in such zones."

Hence, the consideration of the proposal is deferred until further orders from the Hon'ble Jharkhand High Court.

8. Tokisud Block – II Coal Mine, South Karanpura Coalfields Limited of M/s Twenty First

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Century Mining Pvt. Limited, Village :Tokisud (Mahuatoli&Mahuatola) Tehsil :Patratu, Distt. : Ramgarh, Jharkhand (220 Ha).

(Proposal no.: SIA/JH/CMIN/ 565951 /2026)

The PAs vide letter dated 24.04.2026 requested for deferment of the project.

Hence, the proposal will be taken up for consideration after request by the PAs.

9. BineriBandarkola Stone Deposit of M/s Jai Hanuman Mining (Partner : Shri Amit Kumar Yadav), Village :BineriBandarkola, Thana : Borio, Distt. :Sahibganj, Jharkhand (2.833 Ha).

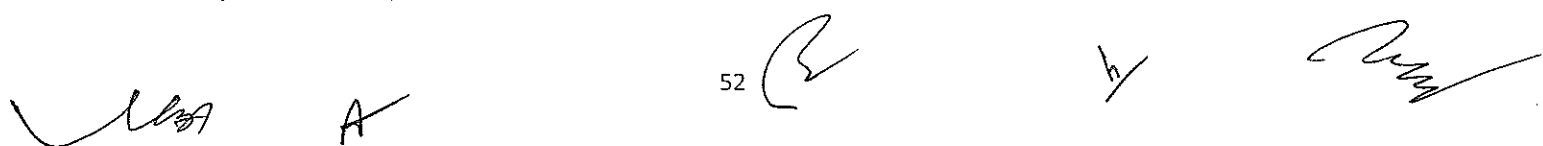
(Proposal no.: SIA/JH/MIN/ 568259 /2026)

The distance of the forest from the boundary of the mine lease area is less than 500 meters.

As per the direction imposed in the interim order of the Hon'ble Jharkhand High Court, Ranchi in W.P (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand & Ors vide paragraph no. 62 (b) "The restriction on the grant of consents as above will now apply to the zone of 500 metres from the boundaries of forests/forest land insofar as stone mining is concerned, and to the zone of 400 metres insofar as stone crushers are concerned, instead of 250 metres as provided in the notification dated 07.12.2015 or 18.10.2017; In short, the position prevailing before the issue of the impugned notifications is restored until the final disposal of this Petition. This is, of course, subject to any other statutory restrictions, if any, affecting such activities in such zones."

Hence, the consideration of the proposal is deferred until further orders from the Hon'ble Jharkhand High Court.

10. Pakadiya Stone Deposit of M/s O.P. Stone Works (Partner : Shri Arun Kumar Singh &

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Others), Village :Pakadiya, Anchal :Mandro, Thana :Mirzachowki, Distt. :Sahibganj, Jharkhand (2.87 Ha).

(Proposal no.: SIA/JH/MIN/ 570337 /2026)

The distance of the forest from the boundary of the mine lease area is less than 500 meters.

As per the direction imposed in the interim order of the Hon'ble Jharkhand High Court, Ranchi in W.P (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand & Ors vide paragraph no. 62 (b) "The restriction on the grant of consents as above will now apply to the zone of 500 metres from the boundaries of forests/forest land insofar as stone mining is concerned, and to the zone of 400 metres insofar as stone crushers are concerned, instead of 250 metres as provided in the notification dated 07.12.2015 or 18.10.2017; In short, the position prevailing before the issue of the impugned notifications is restored until the final disposal of this Petition. This is, of course, subject to any other statutory restrictions, if any, affecting such activities in such zones."

Hence, the consideration of the proposal is deferred until further orders from the Hon'ble Jharkhand High Court.

11. BindriBandarkola Stone Deposit of Shri Ranjeet Kumar Singh, Village :BindriBandarkola, Tehsil : Borio, Distt. :Sahibganj, Jharkhand (2.833 Ha).

(Proposal no.: SIA/JH/MIN/ 572815 /2026)

The distance of the forest from the boundary of the mine lease area is less than 500 meters.

As per the direction imposed in the interim order of the Hon'ble Jharkhand High Court, Ranchi in W.P (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand & Ors vide paragraph no. 62 (b) "The restriction on the grant of consents as above will now apply to the zone of 500 metres from the boundaries of forests/forest land insofar as stone mining is concerned, and to the zone of 400 metres insofar as stone crushers are concerned, instead of 250 metres as provided in the notification dated 07.12.2015 or 18.10.2017; In short, the position prevailing before the issue of the impugned notifications is restored until the final



disposal of this Petition. This is, of course, subject to any other statutory restrictions, if any, affecting such activities in such zones."

Hence, the consideration of the proposal is deferred until further orders from the Hon'ble Jharkhand High Court.

12. Borna Stone Mine of Shri Krishna Kumar Saha, Mauza : Borna, Thana : Ranga, Distt. :Sahibganj, Jharkhand (3.490 Ha).

(Proposal no.: SIA/JH/MIN/ 572255 /2026)

The distance of the forest from the boundary of the mine lease area is less than 500 meters.

As per the direction imposed in the interim order of the Hon'ble Jharkhand High Court, Ranchi in W.P (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand & Ors vide paragraph no. **62 (b)**" *The restriction on the grant of consents as above will now apply to the zone of 500 metres from the boundaries of forests/forest land insofar as stone mining is concerned, and to the zone of 400 metres insofar as stone crushers are concerned, instead of 250 metres as provided in the notification dated 07.12.2015 or 18.10.2017; In short, the position prevailing before the issue of the impugned notifications is restored until the final disposal of this Petition. This is, of course, subject to any other statutory restrictions, if any, affecting such activities in such zones."*

Hence, the consideration of the proposal is deferred until further orders from the Hon'ble Jharkhand High Court.



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13. Borna Stone Mine of Shri Krishna Kumar Saha, Mauza : Borna, Thana : Ranga, Distt. :Sahibganj, Jharkhand (2.731 Ha).

(Proposal no.: SIA/JH/MIN/ 572239 /2026)

The above-mentioned project was considered in the light of section 11 of EIA Notification, 2006 and OM no. IA3-22/19/2023-IA.III [E-226246], dated 19.02.2025 of MoEF&CC, Govt. of India for transferability of Environmental Clearance. The Environmental Clearance granted by then DEIAA, Sahibganj vide its letter no. EC/DEIAA/2016-17/87, dated 13.12.2016 in the favour of "Borna stone Mine" M/s A.R.K Nirman (P) Ltd. (Director Sri Krishna Kumar Saha) on plot no. 201 (p), 202, 203, 216, 217(p),218 and 219 (p), Khata no. 47, 56 & 5, Village: Borna, P.S Ranga Dist. Sahibganj, State-Jharkhand (2.731 Ha).

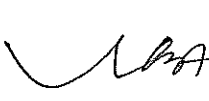

The PAs vide online application no. SIA/JH/MIN/572239/2026 has requested to transfer of Environmental Clearance Borna Stone Mine of M/s Krishna Kumar Saha (Prop : Shri Krishna Kumar Saha) for which he has submitted " No Objection Certificate" affirming that the Environmental Clearance will be transfer in favour of "Borna Stone Mine of M/s Krishna Kumar Saha (Prop : Shri Krishna Kumar Saha)" and they do not have any objection regarding the transfer of Environmental Clearance all the terms & conditions of Environmental Clearance dated 13.12.2016 shall be complied by Borna Stone Mine of M/s Krishna Kumar Saha (Prop : Shri Krishna Kumar Saha). Deputy Commissioner, Sahibganj vide GRN no. 312488, dated 13.10.2017 for the period of 13.09.2017 to 01.11.2026 for an area 6.75 Acre or 2.731 Ha.

The DMO, Sahibganj also certify vide memo no. 607/M, dated 15.04.2026 that the said project falls under grid no. 117 and production is within the overall permissible production limit.

It is observed that Deputy Commissioner, Sahibganj transferred the lease deed in the name of "Borna Stone Mine of M/s Krishna Kumar Saha (Prop : Shri Krishna Kumar Saha)" and as per direction of OM no. IA3-22/19/2023-IA.III [E-226246], dated 19.02.2025 of MoEF&CC, Govt. of India application for transfer of EC after of period of 24 months from the date of transfer / acquisition/ demerger / change in name etc. of the company, the PAs shall apply on PARIVESH Portal with detailed justification for delay in applying for transfer of EC with the Certified Compliance Report (CCR) for the project from the concerned Regional Office of the Ministry (MoEF&CC, Govt. of India).

In the light of above direction of MoEF&CC, Govt. of India PAs have obtained the CCR from MoEF&CC, Regional Office, Ranchi issued vide F. no. 111-24/ROR-2025/698, dated 19.12.2025. The PAs have also submitted the action taken report to MoEF&CC, Regional Office, Ranchi vide letter dated 12.03.2026 and obtained review report MoEF&CC, Regional Office, Ranchi issued vide F. no. 111-24/ROR-2025/182, dated 01.04.2026.

The PAs have also provided detailed justification to SEAC stating that the PAs were not aware as to whether the transfer of EC would be undertaken prior to re-appraisal DEIAA ECs. The PAs also give the detailed explanation that continued operation based on the valid statutory approvals.

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The PAs stated that they have initiated the process of re-appraisal of DEIAA EC and transfer of EC after approval of updated DSR in 120th meeting of SEIAA held on 28th and 29th January, 2025 based on the recommendation of SEAC.

Accordingly, SEAC accepted the justification and recommends for condonation of the reason of delay in the process of transfer of Environmental Clearance issued vide letter no. EC/DEIAA/2016-17/87, dated 13.12.2016 in favour of "Borna Stone Mine of M/s Krishna Kumar Saha (Prop: Shri Krishna Kumar Saha)" with the same terms & condition under which prior Environmental Clearance was granted by then DEIAA, Sahibganj for the same validity period.

14. Amendment in EC of Piparwar UG (Phase I) (0.87 MTPA) Piparwar area of M/s Central Coalfields Ltd., Village : Benti, Mangardaha, Kichto, Thena & Bijain, Tehsil : Tandwa, Distt. : Chatra, Jharkhand (464.69 Ha).

(Proposal No : SIA/JH/CMIN/ 564933/2026)

Name of the consultant: CMPDI, Kanke Road, Ranchi

This is a greenfield underground coal mine project which has been taken for appraisal on 25.04.2026.

Project Sector: 1(a) Mining of Minerals (Coal) as per EIA Notification, 2006, Category: B1.
Application for amendment in Environmental Clearance (EC).

It is in reference to the project "Piparwar UG (Phase-I) of Central Coalfields Limited (Capacity: 0.87 MTPA, Area: 426.88 Ha, Village: Benti, Bijain, Mangardaha, Kichto, Thena, Anchal: Tandwa, Dist.: Chatra, Jharkhand" submitted by you for seeking amendment in Environment Clearance.

Piparwar UG (Phase-I) is an greenfield underground coal mining project which has been planned to work within and beneath the leasehold of Piparwar OCP. Project is located in NK Coalfields under administration of Piparwar area of Central Coalfields Limited. This project falls within revenue villages Benti, Mangardaha, Kichto, Thena & Bijain of Tandwa CD Block, Chatra Dist. of Jharkhand.

Conditional EC for incline drivage and construction of infrastructure has been granted by SEIAA Jharkhand on 29.10.2024. The present proposal for amendment in EC of Piparwar UG (Phase-I) for allowing underground coal production within 426.88 ha (including 128.14 ha of already diverted notified forest land of Piparwar OCP and balance non-forest land) excluding



GM JJ land of 37.81 Ha. In this regard, the Project Proponent has sought amendment of the Environmental Clearance, for which an online application in Form-4, along with other requisite documents, has been submitted

PROJECT AND LOCATION DETAILS:

Sl	Parameter	Details	
1	Project Name	:	Piparwar UG (Phase-I)
2	Project Proponent	:	Shri Jitendra Kumar Singh, Project Officer, Piparwar UG (Phase-I),
3	Address	:	PiparwarArea, Central Coalfields Limited, PO-Bachra, Dist-Chatra, Jharkhand, Pin-829201
4	Area	:	Ha:426.88 ha Acres:1,054.39 Acres
5	Type of Land	:	Forest Land: 128.14 Ha& Non-Forest Land: 298.74 Ha
6	Project Cost	:	39031 Lakh
9	New or Expansion	:	New (Amendment in EC)
10	Mineable Reserves	:	Coal: 3.57 Million Tonnes OB: NA as it is an UG project
11	Mine Life	:	8 years
12	Man power	:	119
13	Water Requirement	:	480 KL/Day
14	Water Source	:	Mine seepage & rain water stored in mine sump
15	DG Set / power	:	The power shall be supplied to the proposed main mine substation from existing 33 kV overhead transmission line supplying power to opencast project
16	Crusher	:	No
17	Nearest Water Body	:	Damodar River (0.1 KM)
18	Nearest Habitation	:	Khalari (7 KM)
19	Nearest Rail Station	:	Ray (5 KM)
20	Nearest Air Port	:	Ranchi (70 KM)
21	Nearest Forest	:	Within Project boundary
22	Road & Highways	:	State Highway No 7

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CO-ORDINATES:

1	Latitude	From 23°42'39.81" N	To 23°44' 09.21" N
2	Longitude	From 85°01'09.02" E	To 85°03'15.47" E.

Status of Forest Land:

MoEF&CC, GoI has issued a letter vide no: FC-11/135/2024-FC dated: 26.12.2024 which states that the mining operations, including ancillary activities in accordance with the modified Mining Plan without seeking any further approval from the Ministry provided:

- a) there is no change in the total forest area earmarked for carrying out mining within the diverted forest land forming part of the already approved original Mining Plan
- b) All environmental and ecological safeguards, as specified in the Stage I and Stage II approvals including any additional environmental and ecological safeguards as may be applicable for restoring the already used forest land as indicated in the already approved Mining Plan shall be adhered to strictly,
- c) The User Agency shall provide a copy of aforesaid modified Mining Plan approved by the Competent Authority referred to in para (ii) to the concerned Regional Office for information and record in all such cases.

Further, MoEF&CC's clarification vide: FC-11/165/2024-FC dated 10.07.2025 states that approvals for existing coal mining leases shall be deemed extended up to the validity period of the CBA Act, subject to realization of NPV by the State Government. In compliance, the modified Mining Plan has already been submitted to the Deputy Director General, MoEF&CC, Regional Office, Ranchi, vide letter no. GM/PPR/Forest/2025/258 dated 04.03.2025 and vide letter no: GM/PPR/Env. /Forest/2025/110 dated 26.12.2025 with copies to PCCF-cum-Executive Director (Nodal) Jharkhand, RCCF Hazaribagh and Conservator of Forests, Chatra.

Total forest land falling within the project boundary of Piparwar UG (Phase I) is 165.95 Ha, involving total of 5 proposals. Different forest proposals in Piparwar UG (Phase I) are mentioned below:

SN	Forest Proposal	Area as per FC Obtained (Ha)	Area involved in Piparwar UG (Ha)	MoEF&CC file no with date of Stage-II FC	Present Status
1	Piparwar Coal Project	13.11	2.82	8-172/89-FC dated 02.12.1992	• The application for change in land use of forest land had earlier been submitted to MoEF&CC.

SN	Forest Proposal	Area as per FC Obtained (Ha)	Area involved in Piparwar UG (Ha)	MoEF&CC file no with date of Stage-II FC	Present Status
2	Piparwar Opencast Project	43.30	27.47	8-172/89-FC dated 03.01.1995	<ul style="list-style-type: none"> • However, in view of the MoEF&CC Clarification on mining proposals involving change in land use of forest land as per approved Mining Plan (File No. FC-11/135/2024-FC, dated 26.12.2024) and the subsequent Clarification regarding validity of approvals granted to coal mining leases (File No. FC-11/165/2024-FC, dated 10.07.2025), change in land use for the proposed mining work, where activities remain confined within the already diverted forest land and are in conformity with the revised Mining Plan, is not required to be separately processed. • Accordingly, the revised Mining Plan incorporating the UG operations, as approved by CCL Board has been submitted to the Regional Office of MoEF&CC for information and record vide letters dated 04.03.2025 and 26.12.2025, in line with para (iv) of the aforesaid Clarification dated 26.12.2024. • The UG project lies within the exhausted OCP area and includes 128.14 ha of already diverted forest land from earlier approvals. As per MoEF&CC notification dated 26.12.2024, no separate approval is required for change in land use within already approved forest land if aligned with the modified Mining Plan. Accordingly, relevant documents and the approved modified Mining Plan have been submitted for information and record.
3	Piparwar Project	28.22	12.38	8-48/98-FC dated 21.09.2001	
4	Piparwar Opencast Mining	101.87	85.47	8-54/2003-FC dated 13.01.2004	
Total Area		186.50	128.14		

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Initially, the project area also involved 37.81 ha of GMJJ (GairMajarua Jungle Jhari) land, for which Stage-I Forest Clearance has been applied vide Proposal No. FP/JH/MIN/44975/2020 dated 09.03.2020. The Project Proponent has also submitted compliance to DFO (ChatraSouth) queries on 14.10.2025 and an exemption request under the Forest (Conservation) Amendment Act, 2023 (notification dated 13.04.2024). The exemption request under FCA Amendment Act, 2023 is under consideration as the matter is also under review at Supreme Court.

Accordingly, no mining activity shall be carried out below or affecting the GM JJ Land measuring 37.81 Ha falling in Piparwar Phase-I UG Mine without obtaining prior approval under the VAN (SANRAKSHAN EVAM SAMVARDHAN) ADHINIYAM, 1980 and VAN (SANRAKSHAN EVAM SAMVARDHAN) RULES, 2023 and as per the final order/judgment passed by the Hon'ble Supreme Court of India. As such, GM JJ Land of 37.81 Ha is excluded from the project area. An undertaking in this regard is also submitted by Project Proponent.

Working Details:

1	Mining Method	:	Bord & Pillar with Caving. Development & depillaring will be done with Continuous Miner (CM)
2	UG Mining Area	:	365.75 Ha
3	No of Seams considered	:	Lower Bachra (Bottom Section)
4	Average Grade	:	G-5
5	Life	:	8 Years
6	Coal Evacuation	:	Through Belt Conveyor
7	Man & Material Supply System	:	Free Steered Vehicles & multi utility Vehicles
8	Roof Support	:	With Resin Bolts, Mobile Breaker Line support
9	Coal Linkage	:	<ul style="list-style-type: none"> Coal dispatch from Piparwar UGP is proposed through Piparwar siding located within the leasehold area of Piparwar OCP. Transportation of coal from surface bunkers to Rajdhar siding will be done through tipping trucks. Piparwar UGP and Piparwar siding are connected by an all-weather road of length 900 m.
10	Parting between floor of opencast and roof of underground	:	The vertical parting between the opencast mine floor and the roof of the underlying underground workings varies from 98 m to 118 m

Proposed Calendar Program:

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Year	Coal Production as per revised proposal in MTY
1	Construction Period
2	Construction Period
3	0.30
4	0.60
5	0.60
6	0.87
7	0.77
8	0.43
Total	3.57

Land Details

The Khata No. and Plot No. of proposed area of 426.88 Ha is submitted below:

S.N	Khata No.	Plot No.	Area (Ha)
1	98	3	0.03
2	82	4	0.68
3	90	5	0.54
4	98	6	0.09
5	18	7	0.68
6	98	8	0.19
7	98	9	15.95
8	82	10	0.83
9	90	11	0.63
10	83	12	0.48
11	98	13	0.06
12	16	14	1.54
13	28	15	0.7
14	98	16P	11.84
15	16	40	1.37
16	12	41	0.42
17	12	42P	0.1
18	41	51P	0.16
19	98	52P	15.09
20	57	580P	0.04
21	98	581	0.02
22	57	582	0.13
23	98	583	0.25
24	14	586P	0.31
25	49	587	0.13
26	98	588	0.02
27	17	589	0.81

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S.N	Khata No.	Plot No.	Area (Ha)
28	63	590	0.09
29	98	592	0.01
30	98	593	0.03
31	54	594	0.03
32	17	595	0.56
33	23	596	0.39
34	16	597	0.54
35	60	598	0.43
36	60	599	0.53
37	81	600	0.06
38	81	601	0.36
39	98	602	0.05
40	60	603	0.02
41	60	604	1.3
42	60	605	0.37
43	98	606	0.51
44	41	607P	0.07
45	32	610P	0.99
46	69	611	0.47
47	69	612	0.17
48	13	613	0.57
49	69	614	0.05
50	69	615	0.3
51	63	616	0.54
52	63	617	0.02
53	41	619	0.25
54	98	620	0.15
55	63	621	0.14
56	23	622	0.38
57	60	623	0.2
58	61	625	0.27
59	42	626	0.17
60	42	627	0.18
61	90	628	0.44
62	98	629	0.02
63	41	630	0.78
64	90	631	0.53
65	14	632	0.15
66	14	633	0.16
67	25	634	0.41
68	17	635	0.18

S.N	Khata No.	Plot No.	Area (Ha)
69	78	636	0.46
70	72	637	0.64
71	62	638	0.66
72	75	639	0.34
73	98	640	0.95
74	75	641	0.56
75	75	642	0.28
76	61	643	0.42
77	98	644	10.12
78	61	645	0.28
79	17	646	0.47
80	98	647	11.53
81	42	648	0.28
82	61	649	0.77
83	61	650	0.57
84	90	651	0.72
85	98	652	0.11
86	61	653	0.43
87	42	654	0.98
88	98	655	0.21
89	61	656	0.76
90	98	657	0.04
91	42	658	0.56
92	72	659	0.49
93	75	662	1.03
94	75	663	0.08
95	79	664	0.16
96	90	665	0.26
97	17	666	0.47
98	90	667	0.39
99	98	668	0.03
100	61	669	0.25
101	61	670	0.01
102	61	671	0.01
103	90	672	0.1
104	55	673	0.14
105	61	674	0.36
106	98	675	0.02
107	42	676	0.17
108	42	677	0.48
109	90	678	0.13

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S.N	Khata No.	Plot No.	Area (Ha)
110	61	679	0.2
111	55	680	0.02
112	78	681	0.78
113	98	682	0.03
114	90	683	0.61
115	90	684	0.01
116	61	685	0.02
117	99	686	0.03
118	61	687	0.39
119	98	688	0.02
120	17	689	0.16
121	17	690	0.02
122	17	691	0.08
123	98	692	0.23
124	99	693	0.19
125	99	694	0.39
126	89	695	0.11
127	49	696	0.51
128	54	697	0.5
129	92	698	0.47
130	98	699	0.06
131	69	700	0.3
132	75	702	1.02
133	89	704	0.07
134	75	705	0.27
135	84	706	0.06
136	72	708	0.1
137	89	709	0.12
138	98	710	0.01
139	60	711	0.42
140	75	712	1.44
141	98	713	0.01
142	75	714	0.01
143	42	715	0.63
144	42	716	0.36
145	42	717	0.01
146	75	718	1.29
147	75	719	0.04
148	89	720	0.02
149	55	721	0.01
150	55	722	0.38

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S.N	Khata No.	Plot No.	Area (Ha)
151	99	723	0.08
152	89	724	0.37
153	21	725	0.75
154	21	726	0.23
155	17	727	0.02
156	17	728	0.18
157	17	729	0.66
158	98	730	0.08
159	78	731	1.25
160	80	732	0.36
161	55	733	0.21
162	98	734	0
163	98	735	0.08
164	89	736	0.54
165	75	737	0.24
166	98	738	2.53
167	75	739	0.37
168	21	741	0.5
169	89	742	0.11
170	75	743	0.08
171	99	744	0.08
172	21	745	0.66
173	99	746	0.17
174	78	747	0.27
175	89	748	0.16
176	75	749	0.12
177	75	750	0.4
178	78	752	0.34
179	42	753	0.42
180	43	754	0.9
181	78	755	0.19
182	75	756	0.67
183	42	757	0.55
184	84	758	0.29
185	72	759	0.34
186	78	760	0.28
187	25	762	0.76
188	80	763	0.32
189	78	764	0.12
190	51	765	0.12
191	79	768	0.81

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S.N	Khata No.	Plot No.	Area (Ha)
192	21	769	0.75
193	42	770	0.77
194	25	771	0.47
195	51	772	0.37
196	50	773	0.75
197	43	774	0.55
198	25	775	0.56
199	98	776	0.13
200	43	777	0.63
201	98	778	0
202	98	779	0.1
203	98	780	0.02
204	98	781	0.02
205	25	782	0.84
206	98	783	0.05
207	98	784	0.01
208	43	785	0.74
209	98	786	0.02
210	69	787	0.21
211	98	788	0.25
212	80	789	0.43
213	80	791	0.91
214	2	792	0.61
215	2	794P	0.22
216	2	795P	0.09
217	2	796	0.32
218	2	797	0.22
219	2	798	0.5
220	98	799	0.01
221	98	800	0.04
222	72	801	0.17
223	79	802	0.42
224	94	803	0.15
225	81	804	0.09
226	21	805	0.17
227	2	806	0.59
228	51	807	0.04
229	98	808	0.09
230	72	809	0.17
231	98	810	0.04
232	72	811	1.14



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S.N	Khata No.	Plot No.	Area (Ha)
233	98	812	0.02
234	84	815	0.28
235	78	816	0.18
236	99	817	0.04
237	42	818	0.42
238	98	819	0.11
239	98	820	0.31
240	75	821	0.04
241	79	822	0.1
242	98	823	0
243	75	824	0.08
244	43	825	0.01
245	98	827	0.01
246	98	828	0.01
247	98	829	0.01
248	98	830	0.01
249	79	831	0.17
250	79	832	0.06
251	79	833	0.06
252	79	834	0.04
253	79	835	0.17
254	21	836	0.21
255	98	837	0.07
256	75	838	0.06
257	75	839	0.15
258	42	840	0.04
259	99	841	0.13
260	84	842	0.12
261	78	843	0.16
262	80	844	0.66
263	75	845	0.19
264	50	846	0.25
265	50	847	0.2
266	50	848	0.17
267	50	849	0.17
268	98	850	0
269	75	851	0.16
270	98	852	0.02
271	98	853	0.11
272	98	854	0.01
273	75	855	0.1

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S.N	Khata No.	Plot No.	Area (Ha)
274	75	856	0.02
275	50	857	0.18
276	75	858	0.56
277	78	859	0.21
278	25	860P	0.23
279	75	865	0.47
280	78	867	0.3
281	60	868	0.83
282	60	869	0.04
283	89	870P	0.06
284	89	871	0.1
285	23	872	0.3
286	23	876P	0.09
287	99	877	0.83
288	98	887P	10.98

Total Area in Benti

164.61

S.N	Khata no.	Plot No.	Area (Ha)
1	22	4	6.68
2	18	5	0.2
3	19	7	0.68
4	9	8	1.04
5	18	9	0.34
6	9	10	0.59
7	22	12	2
8	22	13	20.51
9	22	14	20.79
10	4	56	0.81
11	22	57	8.4
12	11	58	0.23
13	22	59	0.02
14	22	60	0.14
15	7	61	1.37
16	19	62	0.3
17	12	63	0.1
18	11	65	0.06
19	22	66	0.3
20	3	67	0.23
21	22	68	1.12
22	22	76	0.44
23	7	77	0.09
24	7	78	0.09

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S.N	Khata No.	Plot No.	Area (Ha)
25	9	79	0.1
26	11	80	0.22
27	5	81	0.04
28	3	94	0.03
29	3	95	0.06
30	3	96	0.07
31	9	97	0.76
32	7	99	0.15
33	9	100	0.09
34	3	101	0.02
35	3	102	0.34
36	9	103	0.26
37	7	105	0.06
38	7	106	0.22
39	1	107	0.9
40	22	108	0.06
41	9	110	0.39
42	1	111	1.03
43	22	112	0.26
44	1	113	0.21
45	13	114	0.53
46	6	115	0.64
47	7	116	0.08
48	22	117	0.3
49	9	118	0.38
50	11	119	0.54
51	22	120	0.05
52	21	121	0.02
53	19	122	0.16
54	22	123	0.06
55	4	124	0.06
56	4	125	0.01
57	11	126	0.01
58	14	127	0.1
59	4	128	0.31
60	6	129	0.06
61	22	130	0.06
62	4	131	0.08
63	5	132	0.2
64	5	133	0.03
65	1	134	0.48

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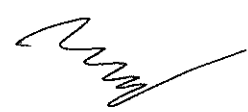
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S.N	Khata No.	Plot No.	Area (Ha)
66	1	135	0.13
67	22	136	0.37
68	14	138	0.06
69	9	139	0.65
70	8	140	0.02
71	8	141	0.24
72	22	142	0.53
73	1	143	1.24
74	11	144	0.67
75	3	145	0.22
76	15	146	0.19
77	22	147	5.16
78	8	148	0.04
79	22	149	0.48
80	18	150	0.08
81	8	151	0.01
82	13	152	0.46
83	9	153	0.3
84	13	154	0.09
85	13	155	0.23
86	13	156	0.01
87	23	157	0.04
88	22	158	0.67
89	22	159	0.04
90	21	160	0.15
91	1	161	0.16
92	11	162	0.15
93	11	163	0.01
94	9	164	0.02
95	9	165	0.38
96	19	166	0.02
97	14	167	0.07
98	19	168	0.19
99	4	169	0.16
100	9	170	0.23
101	8	171	0.2
102	15	172	0.1
103	19	173	0.42
104	23	174	0.8
105	4	175	0.14
106	22	176	5.16







S.N	Khata No.	Plot No.	Area (Ha)
107	23	177	0.06
108	5	178	2.46
109	5	179	0.03
110	4	180	0.04
111	11	181	0.02
112	7	182	0.02
113	23	183	0.08
114	22	184	0.02
115	12	185	0.01
116	12	186	0.46
117	5	187	0.13
118	7	188	0.23
119	7	189	0.02
120	14	190	0.02
121	14	191	0.01
122	4	192	0.07
123	4	193	0
124	23	194	0
125	12	195	0.01
126	17	196	0.13
127	17	197	0.01
128	5	198	0.03
129	5	199	0.55
130	1	200	0.32
131	5	201	0.32
132	23	202	0.11
133	22	203	0.54
134	12	204	0.36
135	12	205	0.02
136	22	206	0.55
137	22	207	2.12
138	22	208	0.28
139	10	209	0.03
140	10	210	0.26
141	10	211	0.1
142	8	212	0.38
143	23	213	0.11
144	1	214	0.8
145	3	215	0.01
146	10	216	0.11
147	3	217	0.19

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S.N	Khata No.	Plot No.	Area (Ha)
148	6	219	0.54
149	23	220	0.24
150	18	221	0.13
151	18	222	0.01
152	16	223	0.11
153	16	224	0.01
154	8	225	0.17
155	8	226	0.03
156	10	227	0.02
157	10	228	0.17
158	6	229	0.01
159	6	230	0.69
160	6	231	0.02
161	23	232	0.04
162	3	233	0.15
163	22	234	0.01
164	20	235	0.15
165	2	236	0.01
166	2	237	0.13
167	1	238	0.1
168	18	239	0.11
169	20	240	0.17
170	2	241	0.19
171	12	242	0.25
172	4	243	0.02
173	4	244	0.12
174	1	245	0.13
175	22	246	0.02
176	3	247	0.02
177	3	248	0.03
178	1	249	0.4
179	22	250	0.04
180	20	251	0.01
181	18	252	0.12
182	18	253	0.01
183	19	254	0.19
184	16	255	0.02
185	16	256	0.15
186	8	257	0.28
187	10	258	0.28
188	15	259	0.01

S.N	Khata No.	Plot No.	Area (Ha)
189	15	260	0.38
190	9	261	0.21
191	6	262	0.62
192	22	263	0.7
193	10	264	0.08
194	15	265	0.01
195	8	266	0.08
196	8	268	0.07
197	1	269	0.44
198	22	270	0.13
199	22	271	0.85
200	8	272	0.39
201	22	273	0.44
202	10	274	0.85
203	22	275P	12.8
204	10	276	0.46
205	23	277	0.53
206	8	278	0.55
207	19	279	1.27
208	22	280	0.06
209	15	282	1.25
210	22	283	0.04
211	14	287	0.16
212	8	288	0.14
213	22	289	0.01
214	14	318	0.11
215	3	321	0.35
216	1	322	0.91
217	22	323	0.33
218	4	324	0.13
219	4	325	0.15
220	1	326	0.15
221	3	327	0.19
222	4	328	0.18
223	3	329	0.3
224	22	330	0.22
225	1	331	0.34
226	5	332	0.2
227	5	333	0.34
228	10	334	0.16
229	1	335	1.1

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S.N	Khata No.	Plot No.	Area (Ha)
230	13	336	0.2
231	22	338	0.03
232	9	339	0.94
233	20	340	0.76
234	10	343	0.1
235	6	345	0.56
236	7	346	0.11
237	7	347	0.25
238	9	348	0.57
239	11	349	0.48
240	12	350	0.09
241	11	351	0.15
242	6	352	0.97
243	6	353	0.57
244	1	361	0.37
245	20	362	0.37
246	18	363	0.16
247	5	364	0.59
248	19	365	0.13
249	23	366	0.65
250	18	367	0.16
251	22	368	0.14
252	20	369	0.16
253	20	373	0.16
254	19	374	0.13
255	22	375	2.42
256	22	376	0.29
257	1	377	0.6
258	4	284P	0.98
259	20	285P	0.21
260	15	286P	0.12
261	7	312P	0.97
262	22	313P	0.06
263	11	314P	0.31
264	5	337P	2.58
265	3	341P	0.32
266	9	342P	1.73
267	14	355P	0.2
268	11	356P	0.69
269	3	360P	1.09
270	6	370P	1.59

S.N	Khata No.	Plot No.	Area (Ha)
271	19	371P	0.93
272	6	372P	1.26
273	11	6P	0.81
Total Area in Mangardaha		166.22	
S.N	Khata no.	Plot No.	Area (Ha)
1	16	140	0.01
2	5	141	0.08
3	17	146	0.24
4	23	148	0.08
5	2	164	0.12
6	2	166	1.39
7	8	167	0.1
8	8	168	0.01
9	23	169	0.22
10	8	170	0.15
11	13	172	0.23
12	13	173	0.01
13	7	174	0.12
14	7	175	0.01
15	18	176	0.1
16	2	177	0.08
17	6	185	0.23
18	12	186	0.07
19	21	187	0.11
20	15	188	0.02
21	15	189	0.24
22	9	190	0.11
23	2	191	0.08
24	8	192	0.03
25	2	193	0.14
26	2	194	0.12
27	7	195	0.13
28	2	196	0.21
29	2	197	0.26
30	15	199	0.23
31	6	200	0.08
32	12	201	0.01
33	6	202	0.02
34	9	207	0.24
35	24	209	0.02
36	8	211	0.36

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S.N	Khata No.	Plot No.	Area (Ha)
37	8	212	0.09
38	15	213	0.22
39	24	214	0.01
40	22	215	0.32
41	8	216	0.25
42	15	217	0.54
43	6	218	0.33
44	2	219	0.36
45	5	220	0.11
46	9	221	0.07
47	11	222	0.04
48	11	223	0.04
49	2	224	0.2
50	2	227	0.3
51	2	228	0.44
52	2	232	0.11
53	7	233	0.12
54	18	234	0.02
55	2	237	0.13
56	8	239	0.19
57	2	240	0.11
58	2	241	0.1
59	6	242	0.03
60	2	243	0.06
61	7	245	0.3
62	4	246	0.59
63	2	247	0.17
64	7	249	0.17
65	3	250	0.23
66	1	268	5.46
67	16	271	0.14
68	1	278P	6.68
69	4	288	0.98
70	1	289P	15.17
71	1	290	10.82
72	22	291	0.27
73	13	292	1.62
74	8	293	0.81
75	1	295	0.52
76	5	296	0.12
77	5	297	0.6



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S.N	Khata No.	Plot No.	Area (Ha)
78	11	298	0.11
79	11	299	0.13
80	5	300	0.07
81	11	301	0.01
82	5	302	0.06
83	9	303	0.01
84	15	304	0.08
85	23	305	0.01
86	5	306	0.23
87	23	307	0.03
88	9	308	0.58
89	1	309	0.25
90	1	310	0.88
91	15	311	0.16
92	6	312	0.25
93	10	313	0.51
94	22	314	0.34
95	8	315	0.28
96	18	316	0.2
97	13	317	0.47
98	15	318	0.29
99	12	319	0.14
100	13	320	0.14
101	22	321	0.21
102	6	322	0.04
103	23	323	0.01
104	12	324	0.02
105	13	325	0.16
106	13	326	0.05
107	17	327	0.28
108	10	328	0.25
109	2	329	0.13
110	2	330	0.98
111	17	331	0.13
112	9	332	0.4
113	1	333	0.48
114	9	334	0.13
115	5	336	0.06
116	2	163P	0.14
117	2	165P	0.73
118	2	178P	0.53

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S.N	Khata No.	Plot No.	Area (Ha)
119	6	203P	0.08
120	2	208P	0.95
121	23	210P	0.04
122	2	225P	0.27
123	2	226P	0.2
124	6	229P	0.4
125	2	230P	0.31
126	13	231P	0.26
127	15	267P	0.78
128	6	269P	0.71
129	2	270P	0.5
130	2	272P	2.51
131	1	279P	9.61
132	1	284P	2.44
133	2	285P	0.37
134	4	286P	0.85
135	1	294P	3.64
Total Area in Bijain		88.38	
S.N	Khata no.	Plot No.	Area (Ha)
1	8	616	0.55
2	16	613	1.5
3	16	617	0.21
4	14	618	0.57
5	12	619	0.56
6	39	620	0.44
7	16	621	0.12
8	12	622	0.98
9	16	623	0.27
10	15	624P	0.53
11	7	625P	0.6
12	15	626P	0.2
Total Area in Kitchto		6.53	
S.N	Khata no.	Plot No.	Area (Ha)
1	19	154P	0.22
2	10	155P	0.16
3	13	156P	0.1
4	13	158	0.04
5	10	159	0.06
6	13	160	0.04
7	10	161P	0.52
Total Area in Thena		1.14	

Land Acquisition:

Project area of 426.88 Ha, on which mining plan/Abridged PR has been prepared and approved by Board of Director of CCL, and for which ToR has been issued by MoEF&CC, is part of 1416.38 Ha land acquired as per Notification of MoC as per Section 11 of CBA Act 1957 vide 19/87/82-CL dated 10.03.1983.

SL	Notification under Section 11 of CBA Act	Date	Area in Ha.
1	No. 19/87/82 - CL	10.03.1983	1416.38
Total Area in Ha			1416.38

Land Type Breakup:

SL	Pattern	Area (in Ha)
1	Notified Forest Land	128.14
2	GMK Land	108.32
3	GMA Land	4.63
4	Tenancy Land	185.79
TOTAL		426.88

Pre-Mining Land Use:

SN	Land Use	Area in Ha
1	Forest land	128.14
2	Plantation Area	118.32
3	Mining Area	146
4	Settlement	4
5	Water filled mine void	21.42
6	Waste Land	9
Total Project Area		426.88

Land Use During Mining:

SL	Pattern	Proposed Area (Ha)
1	UG Mining Area-As the proposed working is underground means, surface shall not be disturbed.	365.75
2	Water Reservoir- Existing mine void of exhausted Piparwar OCP will be converted into water reservoir to store the UG mine discharge	26.13
3	Infrastructure- Surface infra including mouth incline, surface bunker, W/S, S/S, store, rest shelter etc on the surface of void of	30.00

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	exhausted Piparwar OCP.	
4	Greenbelt	5.00
	TOTAL	426.88

In addition, on surface of Piparwar Phase-I UG, 173.09 Ha plantation has been developed over backfilled area of Piparwar OCP.

Provision of Final Mine Closure of Piparwar OCP:

1. Final Mine closure Plan of Piparwar OCP has been prepared as per the latest mine closure guidelines.
2. This project has been implementing several mine closure activities including technical and biological reclamation of mined out land, environmental monitoring, development of Kayakalpvatika etc.
3. As per the audit reports submitted by CMPDI Ranchi and NEERI Nagpur, around 90.10 Crs was spent by the project on various mine closure activities

Energy Conservation:

1. Solar Power Plant (20 MW) has been constructed at a cost of 142.95 Crores in Piparwar Area. Further additional 10 MW Solar Power Plant is proposed.
2. Further, a floating cum ground mounted Solar (Capacity: 7 MW Floating & 3 MW Ground Mounted) is proposed in the Quarry-I void of Piparwar OCP.
3. For decreasing the maximum demand of the project power factor of 0.98 will be maintained using automatic power factor correction Capacitor banks.
4. Energy efficient LED luminaires has been proposed for all types of illuminations.
5. Energy efficient motors have been proposed as energy conservation measures.
6. Periodical maintenance of equipment's, energy audits, optimization of distribution networks Promoting use of renewables and energy efficient appliances in Project and nearby villages.

Subsidence Study&Subsidence Management Plan:

1. The subsidence prediction model, based on the Influence Function method developed by CMPDI, was used to estimate subsidence in the proposed mining area where caving methods will be applied.
2. The disturbed rock mass, caused by previous opencast mining, was considered in the predictions.
3. Predictions were made for the 5th, 10th, and 14th years (end of mine life), with maximum subsidence of 1.940m over panel N1 in the first two stages, and 2.06m over panel N5 by the end of the mine life.
4. Maximum strain and slope values are projected to be 12.13mm/m & 23.10mm/m initially, rising to 18.33mm/m & 34.92mm/m at the end. Further, it is unlikely to cause the any major topographical change.

5. Surface cracks caused by subsidence should be regularly filled with clay and stone chips, followed by a clay heap to restore the original drainage pattern, enhance soil water retention, reduce erosion, and prevent underground inundation and spontaneous heating.
6. Afforestation and forest cover enhancement should be undertaken to address any environmental losses.
7. Water accumulation in subsidence-induced depressions can benefit vegetation and should be retained when safe or drained otherwise.
8. Surface drains must be constructed outside subsidence areas to prevent water from entering active zones.
9. To protect key surface features, coal pillars should remain unextracted within the subsidence influence zone.
10. A dedicated team will be established by the mine management to monitor and manage crack filling, ensuring materials are readily available.

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The land has been acquired under the Section 11 of CBA Act 1957 vide 19/87/82-CL dated 10.03.1983.
2	CO	:	The CO, Tandwa (Chatra) vide letter dated 16.05.2024 has mentioned that some plots of the Mouza :Kichto, Bijain, Benti, Mangardaha& Thena are recorded as "Jungle- Jhari" in R.S. Khatiyan& Register II bearing total area 37.81 Ha for which diversion application of Forest land has been submitted vide proposal no. FP/JH/MIN/44975/2020.
3	DFO Wild Life	:	DFO, Wildlife Division, Hazaribagh vide letter no. 2841, dated 07.12.2023 certified that the said project is outside Eco Sensitive Zone of Lawalong Wildlife Sanctuary.
4	DFO Territorial	:	DFO, Chatra South Forest Division vide letter no. 1065, dated 22.05.2024 certified that the distance of forest land is 0 (Zeor) meters. The project involves 128.14 ha of Notified Forest land within the UG project area). In view of the MoEF&CC Clarification on mining proposals involving change in land use of forest land as per approved Mining Plan (File No. FC-11/135/2024-FC, dated 26.12.2024) and the subsequent Clarification regarding validity of approvals granted to coal mining leases (File No. FC-11/165/2024-FC, dated 10.07.2025), change in land use for the proposed mining work, where activities remain confined within the already diverted forest land and are in conformity with the revised Mining Plan, is not required to be separately

		processed. Accordingly, the revised Mining Plan incorporating the UG operations, as approved by CCL Board has been submitted to the Regional Office of MoEF&CC for information and record vide letters dated 04.03.2025 and 26.12.2025, in line with para (iv) of the aforesaid Clarification dated 26.12.2024.
5	Approval of Mining Plan	: Abridged Project Report approved by Compancy Secretary, Central Coalfields Ltd. vide Ref No.: - CS/BM/507/2021/303, Dated: - 18.10.2021. Revised Mining Plan of Piparwar UG Phase-I (Capacity: 0.87 MTY, Area: 426.88 Ha) has been approved by CCL Board in its 555th meeting held on 26.02.2026
6	CGWA	: NOC for Ground Water Abstraction vide NOC no. CGWA/NOC / MIN/ORIG /2024/19856, dated 05.02.2024 valid up to 04.02.2026.
7	Previous EC	: Previous EC was granted by SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3146/2024/318, Dated: 21.10.2024 for carrying out developmental activities only.
8	Public Hearing	: Conducted on 25.08.2023
9	Consent to Establish (CTE)	: CTE granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-20692280/2025/59, dated 23.01.2025.
10	Consent to Operate (CTO)	: CTO granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-22101467/2025/2137, dated 03.08.2025.

Status of Baseline Data Generation:

Nature of Study	Name of the Agency	
	Post-Monsoon 2020	Non-Monsoon 2024
Micro Meteorological Studies	Go Green Mechanisms Private Limited (GGMPL), Ahmedabad (NABL Certificate No.: TC-7073 valid upto 08.11.2022) Period: Post-Monsoon 2020 (1 st October to 31 st December, 2020) (NABL Certificate No.: TC-7470 valid	Environment Laboratory, Central Mine Planning and Design Institute Limited. Period: 01.01.2024 to 31.03.2024
Seasonal Ambient Air Quality Study		
Ambient Noise Level Study		
Water Quality study		

Soil Quality study	upto 15.12.2024)	
Socio- Economic Study	Environmental Technical Services Private Limited, New Delhi Period: Post-Monsoon 2020	Central Mine Planning and Design Institute Limited.
Flora & Fauna study	Wolkem India Limited Period: Post-Monsoon 2020	

Wildlife Management Plan and Budgetary Provision:

06 nos. of Schedule-I faunal species have been observed in the buffer zone of the study area. Conservation Plan for the same has been prepared and submitted to DFO, Chatra(South).

Impact of mining on Hydrology:

1. A detailed Hydrogeological study as per GEC 2015 has been carried out to estimate the impact of proposed mining activity on hydrological regime.
2. As per the study, the radius of Influence (Rol) is estimated as 360 m, and the stage of ground water extraction of the study area has been estimated as 23.00 %, which falls into safe category as per the CGWA guidelines.
3. In addition to this, this project being an underground mine, and it won't affect the surface water regime
4. No Objection Certificate (NoC) from CGWA has been obtained vide letter no: CGWA/NOC/MIN/ORIG/2024/19856 Dt. 05/02/2024, valid upto 04.02.2026 for an extraction rate of 560.00 m3/day. Renewal application is submitted to CGWA.

Total EIA/EMP Expenditure:

A. Capital Cost of Environmental Control Measures

A. Air Pollution Control Measures		
S.No	Pollution Control Measure	Estimated Capital Cost (Rs. Lakhs)
1	PCC/Black topping of Coal transportation Haul road from Mine to Piparwar siding of Length 900m	100
2	Fixed mist type sprinkling system along coal transportation road for dust suppression	50
3	2 no. of Fixed Fog canons for Dust Supression at Stock Yard	15

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4	Permanent wind screen to be provided all along the boundary of stock yard	50
5	1 no. of movable Fog canons for Dust Supression at Rly Siding	40
6	1 no. of Fixed Fog canons for Dust Supression at Rly siding	7.5
7	Permanent wind screen to be provided all along the boundary of Railway Siding	50
Sub Total (A)		312.5
B. Water Pollution Control Measures		
1	3 no. of Sumps (2 UG and 1 Surface) have been proposed for proper handling, treatment and disposal of mine seepage water	38.5
2	Strengthening of embankment against Mangradaha Nala flowing along northern boundary of the project	50
3	Construction of garland drain along with intermittent Settling ponds all along the mine boundary and infrastructure (Approx. 5 km)	50
4	Rainwater Harvesting on all industrial buildings like Workshop, PO Office, SS etc.	30
5	Sewage treatment plant (40 kLD)	25
6	Drinking water facility at colony	12
7	Mine effluent treatment facility at Project	35
Sub Total (B)		240.5
C. Land Reclamation		
1	Green belt development/ plantation at Industrial Site	200
2	Biological reclamation/ gap plantation of Surface of UG Mine including subsided area	400
3	Conservation Plan of Schedule-I species	83.04
Sub Total (C)		683.04
Protection Plan for Safeguarding River Damodar (D)		744.45
Grand Total (A)+(B)+(C)+(D) in Rs. Lakhs		2050.49

B. Revenue Cost of Environmental Control Measures:

S.No	Particulars	Annual Revenue Cost (Rs Lakh)
1	Environmental Monitoring Cost	108.02
2	Plantation Maintenance Cost	10
3	Dust Suppression	50
4	Maintenance cost for ETP and STP	10

5	Maintenance of RWH, Catch drains, Storm water drains and other development measures in Township	10
6	Miscellaneous Cost including subsidence management	30
Total Cost		218.02

C. Action Plan for Public Hearing:

SN.	Additional Measures Proposed for Compliance of PH	Tentative Cost in Rs. Cr	Timeline of Completion
1	Planting fruit bearing saplings in schools, health centres, panchayat bhawans, administrative offices etc. @ 15 locations. Additionally, PP will oversee the maintenance of the plantations for four years thereafter.	0.07	1st year
2	Distribution of fruit bearing saplings will to the nearby village 2000 saplings/ year for 3 years	0.07	3 Years
3	Skill development training for PAFs in various agricultural practices viz. organic farming, mushroom farming, poultry, pisciculture etc. for 100 PAPs each year for next 3 years.	1.05	3 Years
4	Wind Barrier all along the road adjacent to Mangardaha village @ 600m X 8 m height	0.75	1st year
5	02 Nos. Mobile Fog Cannon and dust extraction from road in adjacent villages Bahera, Kichto and Benti for 3 years	1.21	3 Years
6	Additional Health Camps proposed (bi annually) for the villages Benti, Kalyanpur, Kichto/Mangardaha and Bahera for 3 years (Health Consultation including checkups, pathological tests and basic medicines Distribution)	0.15	3 Years
7	One additional Ambulance service for adjacent villages for 3 years	0.30	3 Years
8	Repair and maintenance of roads in Benti Village	0.40	1st year
9	Repair of Existing building at DAV Public School Kalyanpur under CSR Scheme of Piparwar Area	1.03	As per the Work order issued
10	R&R (No R&R involved in this project)	0	Not Applicable
Minimum Total Cost to be spent in PH Compliance		5.03 Crore	

D. Provision for Wildlife Management Plan:

Sl. No.	Component	Unit Cost (in Rs.)	Units	Provision in Lakhs
1 Habitat Improvement for Wildlife				
a	Creation of Grasslands for herbivore species in the forest area within the buffer zone at different places.	Rs 0.50 lakh/Ha.	4 Ha	2.00
b	Augmentation of degraded areas by planting mixed native species, Silvi-Cultural operation, Weed Removal (Assisted Natural Regeneration)	Rs 0.25 lakh/Ha.	5 Ha	1.25
c	Soil and moisture conservation by Contour trenching, gully plugging at suitable locations within the forest.	Rs 0.25 lakh/Ha.	5 Ha	1.25
d	Development of waterholes, water troughs, and mini check dams for providing drinking water facility for animals	Rs 1 lakh/Ha.	5 Ha	5.00
2 Providing Safety and Protection Measures for Wildlife				
a	Creation of fire lines and maintenance	Rs 4200/km	20 KM	0.84
b	Procurement of Leaf blowers and Firefighting Equipment	60000/ unit	2	1.20
c	Construction of watchtower for surveillance of fire and biotic interference in the forest area	Rs 6 lakh/ Tower	2	12.00
3 Capacity Building & Awareness Programme				
a	Technical training to the Frontline Staff regarding rescue and rehabilitation of wild animals	Rs 0.5 lakh/ training	5	2.50
b	Distribution of pamphlets and brochures related to wild animals for local communities	Lumpsum	-	1.00
4 Research and Wildlife monitoring				
a	Purchase of Camera Trap for wildlife study	20,000/ unit	10	2.00
b	Appointment of Researcher and Field assistant	50,000/	2	24.00

	for 2 years	month		
5 Machinery And Equipment for Mitigating Human-Wildlife Conflicts				
a	Mobile animal rescue unit for wild animals trapped in the villages and shifting the injured animals	15 lakhs/ unit	1	15.00
b	Development of veterinary Facilities for wildlife	10 lakhs/ unit	1	10.00
c	Other Miscellaneous Funds	Lumpsum	-	5.00
Total (in Rs. Lakh)			83.04	

Activities taken up in compliance of Public Hearing (FY 2024-25 & FY 2025-26)

On-going/ Completed Activities in line with Compliance of Issues Raised in PH (2024-25 & 2025-26)		
Sl No	Name of the Activity	Project Cost (₹ Lakhs)
1	Providing of training on readymade Garment tailoring for women residing under the command of Piparwar Area through Vijayrekha Foundation	23
2	Providing of Mushroom cultivation training to PAPs and villagers for promoting livelihood and enhancing economic and social status through YUVA	30
3	Generation of employability through Biofloc fish farming system for the villagers under CSR of Piparwar Area through YPSV	14
4	Setting up of Didi Café in collaboration with JSLPS to promote livelihood among women/SHGs under the command of Piparwar Area	10
5	Providing of blankets as part of preventive health care during cold - distribution among villagers and PAPs of nearby villages	4.99
6	Setting up of open gym equipments in villages (Benti, Billari, Ray, Bachra High School) for promoting physical and mental well-being among villagers and PAPs	14
7	Providing of blankets as part of preventive health care during cold - distribution among villagers and PAPs of nearby villages	5
8	Providing of Battery-operated tri cycle for Divyangs residing in project	5

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	affected villages under the command of Piparwar Area	
9	Construction of toilet and strengthening of school building of prastavitbalikauchhavidyalay in vill – Bachra south panchayat	5
10	Provision of 1 no. ambulance on hiring basis for 11 panchayats under command area of Piparwar for 3 years	23.35
11	Construction of Puliya (bridge) near Imli ped in vill- Bachrabasti, Bachra north panchayat	6
12	Construction of Puliya (Bridge) Near Shiv Mandir, Bachra	4.52
13	Construction of puliya (bridge) near rani chua nala in vill- Ulatu, Badgaon panchayat	6.99
14	Construction of puliya (bridge) near samshan ghat road in vill- New bijjain, Bahera panchayat	4.63
	Total	156.48

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meeting held on 25.04.2026, the Committee observed that the out of the total Forest Land required for the project, Stage-II FC for 128.14 Ha was earlier issued for Piparwar Opencast Project and fresh proposal of 37.81 Ha of Jungle-Jhari land is under process of diversion, which was broken prior to 12.12.1996.

Considering the request submitted by Project Proponent Dated: 14.03.2026, SEAC accordingly recommends for issuance of EC for Piparwar UG (Phase-I) (Capacity: 0.87 MTPA Area: 426.88 Ha) with the following specific conditions:

- 1) No mining activity or any other activity shall be carried out below or affecting the Jungle-Jhari Land measuring 37.81 Ha falling in Piparwar Phase-I UG Mine without obtaining prior approval under the VAN (SANRAKSHAN EVAM SAMVARDHAN) ADHINIYAM, 1980 and VAN (SANRAKSHAN EVAM SAMVARDHAN) RULES, 2023 as per the final order/judgment passed by the Hon'ble Supreme Court of India.
- 2) Project Proponent will seek amendment in Environment Clearance after obtaining diversion of Jungle-Jhari Land under the Forest (Conservation) Act, 1980 / VAN (SANRAKSHAN EVAM SAMVARDHAN) Adhinyam, 1980.

15. KDH Expansion OCP Phase – I (4.5 MTPA) of M/s Central Coalfields Ltd., Village :Bishrampur& Karketta, Tehsil :Khalari, Distt. : Ranchi, Jharkhand (219.80 Ha).

(Proposal No : SIA/JH/CMIN/ 573566/2026)

Name of the consultant: CMPDI, Kanke Road, Ranchi

This is an expansion project which has been taken for appraisal on 25.04.2026.

Project Sector: 1(a) Mining of Minerals (Coal) as per EIA Notification, 2006, Category: B1.

Application for: ToR for Opencast Coal Mining: 4.5 MTPA in an area of 219.80 Ha

It is in reference to the project "KDH EXPANSION OCP (PHASE-I) of Central Coalfields Limited (Capacity: 4.50 MTPA, Area: 219.80 Ha, Village: Bishrampur and Karketta, Anchal: Khalari, Dist.: Ranchi, Jharkhand" submitted by you for seeking Terms of Reference (ToR).

The KDH Extension Opencast Project (OCP) is an existing mine which was granted Environmental Clearance (EC) on 30.01.2015 for a peak capacity of 5.0 MTPA over an area of 489.30 Ha. The coal reserves within the sanctioned area are now nearing exhaustion. In order to ensure continuity of coal production and to meet the growing energy demands of the nation, an expansion mining plan has been approved by Central Coalfields Limited (CCL).

The present proposal involves an area of 219.80 Ha, comprising 44.80 Ha from the existing EC area and an additional 175.00 Ha as fresh area. Accordingly, the proposal is being submitted as an expansion of the earlier EC. The remaining area of 444.50 Ha (i.e., 489.30 Ha – 44.80 Ha) of the existing KDH OCP will be reclaimed as per the Final Mine Closure Plan, which is currently under preparation.

The present proposal is for issuance of ToR for Opencast Coal Mining: 4.5 MTPA in an area of 219.80 Ha. In this regard, the Project Proponent has sought ToR, for which an online application in Form-1, along with other requisite documents, has been submitted

PROJECT AND LOCATION DETAILS:

Sl	Parameter	Details
1	Project Name	: KDH EXPANSION OCP (PHASE-I) of Central Coalfields Limited (Capacity: 4.50 MTPA, Area: 219.80 Ha
2	Project Proponent	: Shri Anil Kumar Singh, Project Officer, KDH OCP
3	Address	: Project Officer, KDH Expansion OCP Phase -I (4.50 MTPA), NK Area, CCL Post- Dakra Dist.-Ranchi, State- Jharkhand.
4	Area	: Ha:219.80 ha Acres:542.906 Acres
5	Type of Land	: Forest Land: 146.38 Ha & Non-Forest Land: 73.42 Ha
6	Project Cost	: 2483 Crore

9	New or Expansion	:	Expansion
10	Mineable Reserves	:	Coal: 22millionTonnes OB: 40.42 Mcum
11	Mine Life	:	8 years
12	Man power	:	621
13	Water Requirement	:	1458 KL/Day
14	Water Source	:	Mine seepage
15	Power	:	The source of power for K. D. Hesalong OCP, is 2X50 MVA, 132/33 KV sub-station of DVC, located at Piparwar.
16	Crusher	:	No
17	Nearest Water Body	:	Kendua Nala (100 meter) in the west of the block and SonadobhaNala (60 meter) in the east
18	Nearest Habitation	:	Khalari (1 KM)
19	Nearest Rail Station	:	Khalari(1 KM)
20	Nearest Air Port	:	Ranchi (65 KM)
21	Nearest Forest	:	Within Project boundary
22	Road & Highways	:	State Highway-7 (4 KM)

CO-ORDINATES:

1	Latitude	From 23° 39' 21" N	To 23° 40' 27" N
2	Longitude	From 84° 58' 53" E	To 85° 00' 30" E

The project includes 146.38 Ha of forest land. The details of Forest Land are submitted below:

SN	File No./ Proposal No	Dated	Total Area in Ha. as per FC		Area included in the present proposal		Status
			Notified Forest	GM JJ Land	Notified Forest	GM JJ Land	
1	8-79/1990-FC(Vol-I)	26.10.2009	28.95	0	19.66	0	Stage-II FC issued
2	8/62/2018-FC	27.02.2023	84.35	42.37	84.35	42.37	Stage-I FC issued

Total Area in Ha.	104.01	42.37	
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Working Details:

1	Mining Method	Opencast method using Shovel Dumper combination
2	Project Area and capacity	219.80 Ha. and 4.5 MTPA
3	No of Seams considered	A total of 9 coal Seams (including splits) have been encountered within the project area viz.; Seam Dakra (splits to Upper Dakra and Lower Dakra), Seam Bukbuka (splits to Bukbuka Top and Bukbuka Bottom), Bistrampur and Karkata. In 6 boreholes, Seams Karkata and Bistrampur combine to form Seam Karkata+Bistrampur.
4	Average Grade	G9 and G10
5	Life	08 Years
6	Extractable Mineable Reserve	22 Mte
7	Depth of Working	200 m
8	Coal Linkage	Tipping trucks from mine to KDH railway Siding, which is 2 km away from the proposed project

Details of Coal Seam to be worked:

Description of coal seams proposed to be worked				
Name of seam/ Parting	Average Thickness/Parting Thickness (m)	Grades	Mineable Reserve (MT)	Volume of OB (Mcum)
Top OB	32.8	G9-G10		16.83
Karkata	3.69		1.74	
Parting	21.8			9.46
Bistrampur	7.17		3.36	
Parting	11.9			4.7
Bukbuka T	8.59		3.78	
Parting	0.8			0.61
Bukbuka B	7.92		3.3	
Parting	20.3			7.25
Upper Dakra	6.24		2.44	

Parting	2.5			1.56
Lower dakra	18.03		7.38	
Total				
Coal			22	
OB				40.42

Proposed Calendar Program:

Year of Quarry Operation	Coal output(MT)	Volume of OBR (MCum)
1	2.00	3.67
2	3.00	5.51
3	3.00	5.51
4	4.50	8.27
5	4.50	8.27
6	3.00	5.51
7	1.50	2.76
8	0.50	0.92
Total	22.00	40.42

PLOT DETAILS:

Plot / Survey / Khasra No of Bishrampur Village, Khalari Ranchi (Area: 123.90 Ha)

S.No	Khata No	Plot No	Total Area (in acres)	Area Acquired (in acres) under KDH Expansion OCP					
				Tenancy	Forest	GMJJ	GMJK	GMA	Total
1	2	367	2.43	2.43					2.43
2	23	368	0.02	0.02					0.02
3	23	369	0.2	0.2					0.2
4	23	370	0.1	0.1					0.1
5	23	371	0.97	0.97					0.97
6	23	373	0.23	0.23					0.23
7	45	374	0.06	0.06					0.06
8	41	516	103	3.59					3.59
9	44	522	1.37	1.37					1.37
10	15	523	0.28	0.28					0.28
11	12	524	1.03	1.03					1.03
12	38	525	0.9	0.9					0.9
13	17	526	1.23	1.23					1.23
14	43	527	1.74	1.74					1.74
15	15	528	0.04	0.04					0.04
16	15	530	0.67	0.67					0.67

S.No	Khata No	Plot No	Total Area (in acres)	Area Acquired (in acres) under KDH Expansion OCP					
				Tenancy	Forest	GMJJ	GMK	GMA	Total
17	42	531	0.01					0.01	0.01
18	35	532	1.74	1.74					1.74
19	38	534	0.1	0.1					0.1
20	38	535	0.1	0.1					0.1
21	38	536	0.25	0.25					0.25
22	17	537	1.03	1.03					1.03
23	2	539	0.85	0.85					0.85
24	38	540	0.25	0.25					0.25
25	38	541	0.29	0.29					0.29
26	38	542	0.59	0.59					0.59
27	38	543	0.85	0.85					0.85
28	38	544	1.91	1.91					1.91
29	38	548	0.92	0.92					0.92
30	41	549	1.04				1.04		1.04
31	15	550	0.23	0.23					0.23
32	15	551	0.34	0.34					0.34
33	17	552	0.74	0.74					0.74
34	15	554	0.56	0.56					0.56
35	15	557	0.38	0.38					0.38
36	15	558	0.67	0.67					0.67
37	15	559	0.74	0.74					0.74
38	17	560	3.01	3.01					3.01
39	15	562	1.06	1.06					1.06
40	17	563	0.34	0.34					0.34
41	17	564	0.07	0.07					0.07
42	17	565	1.7	1.7					1.7
43	17	566	1.02	1.02					1.02
44	31	567	1.15	1.15					1.15
45	15	568	1.37	1.37					1.37
46	12	569	0.67	0.67					0.67
47	31	570	0.46	0.46					0.46
48	15	571	0.63	0.63					0.63
49	15	572	0.08	0.08					0.08
50	15	573	0.41	0.41					0.41
51	15	574	0.54	0.54					0.54
52	15	575	1.18	1.18					1.18
53	15	578	0.61	0.61					0.61
54	15	579	1.31	1.31					1.31
55	15	580	0.03	0.03					0.03

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S.No	Khata No	Plot No	Total Area (in acres)	Area Acquired (in acres) under KDH Expansion OCP					
				Tenancy	Forest	GMJJ	GMK	GMA	Total
56	12	581	0.08	0.08					0.08
57	42	582	0.49					0.49	0.49
58	15	583	1.18	1.18					1.18
59	15	584	0.06	0.06					0.06
60	15	585	0.33	0.33					0.33
61	13	586	0.85	0.85					0.85
62	15	587	0.44	0.44					0.44
63	29	590	0.93	0.93					0.93
64	15	591	0.33	0.33					0.33
65	31	593	0.85	0.85					0.85
66	31	594	0.06	0.06					0.06
67	12	595	0.76	0.76					0.76
68	31	596	0.87	0.87					0.87
69	15	597	1.16	1.16					1.16
70	12	599	1.1	1.1					1.1
71	42	600	0.23					0.23	0.23
72	12	601	0.64	0.64					0.64
73	12	602	0.94	0.94					0.94
74	15	604	0.98	0.98					0.98
75	12	605	0.15	0.15					0.15
76	12	606	0.43	0.43					0.43
77	12	607	1.21	1.21					1.21
78	12	608	0.04	0.04					0.04
79	42	609	0.04					0.04	0.04
80	15	610	0.08	0.08					0.08
81	15	611	0.52	0.52					0.52
82	31	612	0.94	0.94					0.94
83	31	613	0.48	0.48					0.48
84	23	372(P)	0.8	0.43					0.43
85	35	375(P)	0.32	0.21					0.21
86	17	376(P)	0.09	0.07					0.07
87	15	520(P)	0.63	0.06					0.06
88	15	521(P)	0.88	0.5					0.5
89	28	377	0.52	0.52					0.52
90	7	378	0.73	0.73					0.73
91	31	379	0.34	0.34					0.34
92	22	380	0.34	0.34					0.34
93	4	381	0.32	0.32					0.32
94	36	382	0.7	0.7					0.7

S.No	Khata No	Plot No	Total Area (in acres)	Area Acquired (in acres) under KDH Expansion OCP					
				Tenancy	Forest	GMJJ	GMK	GMA	Total
95	27	383	0.38	0.38					0.38
96	38	384	0.1	0.1					0.1
97	38	385	0.92	0.92					0.92
98	24	386	0.1	0.1					0.1
99	12	387	0.17	0.17					0.17
100	12	388	0.95	0.95					0.95
101	36	389	0.49	0.49					0.49
102	21	390	0.26	0.26					0.26
103	24	391	0.46	0.46					0.46
104	21	392	2.51	2.51					2.51
105	24	393	0.63	0.63					0.63
106	21	394	0.42	0.42					0.42
107	21	395	0.03	0.03					0.03
108	36	396	0.41	0.41					0.41
109	21	397	0.05	0.05					0.05
110	36	398	0.96	0.96					0.96
111	41	399	47.42		25.1	22.32			47.42
112	36	400	0.92	0.92					0.92
113	36	403	1.31	1.31					1.31
114	42	404	0.06	0.06					0.06
115	36	405	0.41	0.41					0.41
116	24	406	1.11	1.11					1.11
117	38	407	2.21	2.21					2.21
118	41	408	1.31			1.31			1.31
119	24	409	1.23	1.23					1.23
120	36	410	1.05	1.05					1.05
121	36	411	0.4	0.4					0.4
122	36	412	1.14	1.14					1.14
123	6	413	0.03	0.03					0.03
124	38	414	0.03	0.03					0.03
125	38	415	0.1	0.1					0.1
126	38	416	1.09	1.09					1.09
127	38	417	2.29	2.29					2.29
128	36	418	0.64	0.64					0.64
129	36	419	0.92	0.92					0.92
130	11	420	0.25	0.25					0.25
131	36	421	0.23	0.23					0.23
132	7	422	0.16	0.16					0.16
133	7	423	1.64	1.64					1.64

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S.No	Khata No	Plot No	Total Area (in acres)	Area Acquired (in acres) under KDH Expansion OCP					
				Tenancy	Forest	GMJJ	GMK	GMA	Total
134	7	424	0.19	0.19					0.19
135	46	425	0.45	0.45					0.45
136	26	426	0.31	0.31					0.31
137	26	427	1.03	1.03					1.03
138	21	428	1	1					1
139	42	429	0.56	0.56					0.56
140	36	430	0.08	0.08					0.08
141	36	431	1.57	1.57					1.57
142	8	432	0.74	0.74					0.74
143	36	433	0.86	0.86					0.86
144	36	434	0.07	0.07					0.07
145	41	435	0.08			0.08			0.08
146	11	436	0.37	0.37					0.37
147	11	437	0.68	0.68					0.68
148	36	438	0.64	0.64					0.64
149	36	439	0.16	0.16					0.16
150	31	440	0.25	0.25					0.25
151	31	441	0.97	0.97					0.97
152	31	442	0.7	0.7					0.7
153	41	443	0.08			0.08			0.08
154	38	444	0.69	0.69					0.69
155	24	445	1.67	1.67					1.67
156	36	446	0.46	0.46					0.46
157	21	447	0.53	0.53					0.53
158	38	448	1.44	1.44					1.44
159	23	449	0.85	0.85					0.85
160	4	450	0.71	0.71					0.71
161	4	451	0.08	0.08					0.08
162	22	452	0.78	0.78					0.78
163	21	453	0.68	0.68					0.68
164	2	454	0.92	0.92					0.92
165	1	455	1.9	1.9					1.9
166	1	456	0.84	0.84					0.84
167	33	457	0.47	0.47					0.47
168	33	458	0.61	0.61					0.61
169	33	459	0.11	0.11					0.11
170	11	460	0.35	0.35					0.35
171	27	461	1.16	1.16					1.16
172	24	462	1.03	1.03					1.03

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S.No	Khata No	Plot No	Total Area (in acres)	Area Acquired (in acres) under KDH Expansion OCP					
				Tenancy	Forest	GMJJ	GMK	GMA	Total
173	34	463	1.15	1.15					1.15
174	11	464	0.21	0.21					0.21
175	31	465	0.65	0.65					0.65
176	31	466	0.1	0.1					0.1
177	31	467	0.48	0.48					0.48
178	31	468	0.72	0.72					0.72
179	31	469	0.12	0.12					0.12
180	6	470	2.31	2.31					2.31
181	6	471	4.16	4.16					4.16
182	5	472	0.75	0.75					0.75
183	5	473	0.25	0.25					0.25
184	5	493	0.27	0.27					0.27
185	5	494	0.85	0.85					0.85
186	5	495	0.24	0.24					0.24
187	5	498	1.1	1.1					1.1
188	37	517	0.07	0.07					0.07
189	36	518	0.98	0.98					0.98
190	33	519	0.19	0.19					0.19
191	41	553	10.8		7.36	3.44			10.8
192	15	576	0.14	0.14					0.14
193	41	577	2.15			2.15			2.15
194	41	366(P)	87		3.65				3.65
195	23	372(P)	0.28	0.28					0.28
196	35	375(P)	1.3	1.3					1.3
197	17	376(P)	0.29	0.29					0.29
198	36	402(P)	3.6	3.6					3.6
199	5	474(P)	1.05	1.05					1.05
200	5	492(P)	0.04	0.04					0.04
201	5	496(P)	0.05	0.05					0.05
202	41	516(P)	53.12	0	33.67	19.45			53.12
203	15	520(P)	0.63	0.63					0.63
204	15	521(P)	0.55	0.55					0.55
205	41	366(P)	7.83		7.83				7.83
206	1	399(P)	41.83		40.74				40.74
Area in Acre				137.17	118.35	48.83	1.04	0.77	306.16
Area in Ha				55.51	47.90	19.76	0.42	0.31	123.90

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Area of project in Karketta Village, Khalari Ranchi (Area: 95.90 Ha)

S.No	Khata No	Plot No	Total Area (in acres)	Area Acquired (in acres) under KDH Expansion OCP					
				Tenancy	Forest	GMJJ	GMK	GMA	Total
1	26	158	33.5		27.17	0			27.17
2	26	161	42		28.13	13.87			42
3	26	184	100.75		70	30.75			100.75
4	26	204	97		0	5			5
5	26	347	72.5		13.35	6.24			19.59
6	1	213	0.14	0.14					0.14
7	1	214	0.17	0.17					0.17
8	3	175	0.93	0.93					0.93
9	3	177	0.63	0.63					0.63
10	3	178	0.35	0.35					0.35
11	3	180	0.76	0.76					0.76
12	3	181	0.38	0.38					0.38
13	2	205	0.24	0.24					0.24
14	2	206	0.06	0.06					0.06
15	2	207	0.17	0.17					0.17
16	2	208	0.18	0.18					0.18
17	2	209	0.21	0.21					0.21
18	2	210	0.1	0.1					0.1
19	2	212	0.09	0.09					0.09
20	4	162	0.65	0.65					0.65
21	4	163	0.16	0.16					0.16
22	4	164	1.18	1.18					1.18
23	4	165	0.11	0.11					0.11
24	4	166	0.4	0.4					0.4
25	4	167	0.33	0.33					0.33
26	4	183	0.22	0.22					0.22
27	4	168	1.03	1.03					1.03
28	4	169	0.38	0.38					0.38
29	4	170	0.96	0.96					0.96
30	4	171	0.62	0.62					0.62
31	4	174	0.32	0.32					0.32
32	4	176	0.72	0.72					0.72
33	4	179	0.62	0.62					0.62
34	4	182	0.13	0.13					0.13
35	6	196	0.85	0.85					0.85
36	7	173	1.14	1.14					1.14
37	7	224	0.05	0.05					0.05
38	7	197	0.62	0.62					0.62

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S.No	Khata No	Plot No	Total Area (in acres)	Area Acquired (in acres) under KDH Expansion OCP					
				Tenancy	Forest	GMJJ	GMK	GMA	Total
39	8	172	0.6	0.6					0.6
40	9	343	2.15	2.15					2.15
41	26	204/2	97	1.52					1.52
42	26	204/3	97	5.26					5.26
43	26	204/4	97	0.12					0.12
44	17	211	0.29	0.29					0.29
45	17	216	0.62	0.62					0.62
46	17	219	0.03	0.03					0.03
47	17	220	0.75	0.67					0.67
48	17	222	0.51	0.34					0.34
49	17	223	0.05	0.05					0.05
50	17	225	0.76	0.76					0.76
51	17	283	0.8	0.8					0.8
52	17	284	0.7	0.51					0.51
53	17	285	0.44	0.26					0.26
54	17	286	0.87	0.1					0.1
55	14	215/1	0.7	0.45					0.45
56	14	215/2	0.7	0.25					0.25
57	26	184/4	100.75	1.69					1.69
58	26	184/5	100.75	0.36					0.36
59	26	204/5	97	1.78					1.78
60	26	204/6	97	0.18					0.18
61	26	204/7	97	1.9					1.9
62	26	184/7	100.75	0.67					0.67
63	26	184/9	100.75	1.56					1.56
64	32	217	0.54	0.54					0.54
65	26	184/6	100.75					1.16	1.16
66	26	184/8	100.75					2.06	2.06
67	26	347	72.5					0.88	0.88
Area in Acre				38.36	138.65	55.86	0	4.1	236.97
Area in Ha				15.52	56.11	22.61	0.00	1.66	95.90

Acquisition Details:

Acquisition No.	Tenancy	Forest	GMJJ	GMK	GMA	Total
L.A. Case No. 7RV/87-88	24.17	0.00	0.00	0.42	0.31	24.90

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SO No.3907(E) dated 30-12-2013	31.34	84.35	42.37	0.00	0.00	158.06
L.A Act 3RV/85-86	15.52	0.00	0.00	0.00	1.66	17.18
Nationalization	0.00	19.66	0.00	0.00	0.00	19.66
TOTAL	71.03	104.01	42.37	0.42	1.97	219.80

Pre-Mining Land Use:

Land Type	Sub Type	Area in Ha
Tenancy	Agriculture	71.03
	Township/settlement	0.00
	Road	0.00
Govt Non-Forest	Agriculture	1.97
	Township/settlement	0.00
	Barren	0.42
	Water Bodies	0.00
	Road	0.00
	Community/Other Use	0.00
Forest	Protected / Notified	104.01
	GMJJ / Revenue Forest	42.37
Total (in Ha)		219.80

Land Use During Mining:

Land Use	Area in Ha
Quarry Area	86.89
Top Soil dump	3.26
External Dump	84.83
Road & Infra	19.78
Plantation	19.64
Green Belt & Safety Zone	5.40
Total	219.80

Land Use Post Mining:

Land Use	During Mining Land Use	Post Mining Land Use		
	Area in Ha	Plantation	Company Use/Public Use/Grassing & Bamboo Plantation	Total in ha
Quarry Area	86.89	-	86.89	86.89

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Top Soil dump	3.26	-	3.26	3.26
External Dump	84.83	-	84.83	84.83
Road & Infra	19.78	-	19.78	19.78
Plantation	19.64	19.64	-	19.64
Green Belt & Safety Zone	5.40	5.40		5.40
Total	219.80	25.04	194.76	219.80

Expenditure made (till date) for Pollution Control at KDH OCP:

Category	Total Amount in Lakh (₹)
Water & Effluent Treatment	485.47
Dust Suppression & Air Monitoring	2419.37
Garland Drain, Toe wall Etc	24.01
Wildlife Management Plan	3936.72

CSR Expenditure of North Karanpura Area:

A detailed yearly CSR plan is prepared for and in consultation with the local communities by CCL management. CSR scheme has been implemented. An amount of Rs 188.3 lakh has been spent on different CSR activities by NK Area for the year 2024-25

Year	Total Expenditure	
	(In lakhs)	
2017-18		51.0
2018-19		58.5
2019-20		30.6
2020-21		49.4
2021-22		68.4
2022-23		147.8
2023-24		42.27
2024-25		188.3

Year-wise Plantation undertaken at KDH OCP:

Plantation activities have been carried out over an area of 172.05 Ha (OB dump), 11.30 Ha (plain land), and 6.60 km (avenue plantation), with a total of 4,66,960 saplings planted. The balance area of existing KDH OCP 444.50 Ha (489.30 Ha – 44.80 Ha) will be reclaimed as per the Final Mine Closure Plan of the project which is under preparation.

Progressive and Final Mine Closure Plan:

The total amount to be deposited into Escrow is estimated at Rs. 37.1375 Crore. A Community Development & Livelihood Plan and Repurposing and Sustenance Plan, as a part of Mine Closure Plan has been prepared in accordance with the para 3.5.5 (ii) of Mining Plan Guidelines-25 issued by Ministry of Coal dated 31.01.2025 and office memorandum dated

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07.04.2025 respectively. The total fund allocated for Community Development & Lively hood Plan is Rs. 10.016 Crore, that is more than 25% of total mine closure cost.

Proposed Community Engagement and Livelihood Plan:

<u>S. N.</u>	<u>Head</u>	<u>Amount in Rs.</u> <u>Lakhs</u>
1	Skill Development and Trainings (Alternative Source of livelihood)	83.13
2	Agriculture and other Allied Activities	56.75
3	Eco-Tourism Development	28.38
4	Flora and fauna Conservation/Wildlife conservation	56.75
5	Water Resource Management/Conservation	85.13
6	Clean Energy Projects	141.88
7	Art and Culture	28.38
8	Women Empowerment	85.13
9	Welfare of aged and disabled people	85.13
10	Sustainable Living	141.88
11	Sanitation	119.18
12	Any other activity	87.35
Total		1001.16

STATUTORY CLEARANCES :

1	Land docs	:	Land has been acquired under Nationalisation, LA and CB Act.
2	CO	:	The CO, Tandwa (Chatra) vide letter dated 16.05.2024 has mentioned that the plots number of proposed project site are recorded as "Jungle- Jhari" in R.S. Khatiyand Registerand also mentioned that the Habitation,River, Educational institutes, hospitals are situated within 500 meter of the project.The entire 42.37 Ha of GM JJ land is covered under proposal no. 8/62/2018-FC, for which Stage-I Forest Clearance has been granted.
3	DFO Wild Life	:	DFO, Wildlife Division, Ranchi vide letter no. 206, dated 18.03.2026 certified that the said project is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
4	DFO Territorial	:	DFO, Ranchi Forest Division vide letter no. 647, dated 21.02.2026 certified that the distance of forest land is 0 (Zeor) meters. Out of the total Notified Forest area, 19.66 Ha falls under FC proposal no. 8-79/1990-FC (Vol-I) for which Stage-II Forest

			Clearance has already been granted. The remaining 84.35 Ha is covered under proposal no. 8/62/2018-FC, for which Stage-I Forest Clearance has been issued.
5	Mine plan approval	:	Mine plan approved by Company Secretary, CCL vide Ref. no. C.S/B.M. / 552/2025/347, dated 06.11.2025.
6	CGWA	:	NOC from CGWA has been obtained for groundwater withdrawal of 4137 KLD vide approval dated 05.01.2024, valid up to 04.01.2026. The renewal application is currently under consideration with CGWA.
7	Forest Clearance	:	<ul style="list-style-type: none"> i. Stage I granted by MoEF&CC, Govt. of India vide letter no. 8/62/2018-FC, dated 27.02.2023 for the area 126.72 Ha. ii. Stage II granted by MoEF&CC, Govt. of India vide F. no. 8-79/1990-FC (Vol.1), dated 26.10.2009 for the area 28.95 Ha.
	Previous EC	:	Environmental Clearance (EC) for the project has been granted for a capacity of 4.5 MTPA (normative) and 5.0 MTPA (peak) over an area of 489.30 Ha vide letter No. J-11015/311/2010-IA-II(M) dated 30.01.2015, which is valid up to 30.01.2030.
	Baseline Study	:	Baseline Environmental Monitoring was carried out by the Environmental Laboratory of CMPDIL, HQ, Ranchi, during the period from 15 December 2023 to 15 March 2024.

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 24, 25, 26, 27 & 28.04.2026, the Committee recommends for issuing of ToR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :-

- I. In compliance of OM no. F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- II. Additional one month baseline study has to be carried out.
- III. Analysis of composite samples of soil is to be done.
- IV. Drone imagery with Geo-coordinate is to be provided alongwith final EIA / EMP report.



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Day 3 :26th April, 2026 [Sunday]

Consideration of proposals :

1. Expansion of existing plant from 23,520 TPA to 50,000 TPA Manufacturing of Grey, SG, CI and ADI Iron Casting Component by using electric furnaces by M/s Ramkrishna Forgings Limited (Plant VIII), Mauza :Bholadih, P.S. :Saraikela, Distt. : Seraikela-Kharsawan, Jharkhand.

(Proposal no.: SIA/JH/IND1/ 564289/2026)

Name of the consultant :VardanEnvironet LLP, Haryana.

This is an expansionproject which has been taken for appraisal on 26.04.2026.

Project Category: 3 (a) Metallurgical Industries (Ferrous & Non ferrous), Category :B1 as per EIA Notification, 2006.

M/s Ramkrishna Forgings Limited (Plant VIII) (RKFL) has made ToR Application vide proposal no. SIA/JH/IND1/564289/2026 dated 06.01.2026 along with Form – 1, copy of Pre – Feasibility Report and other required documents for undertaking detailed study as per the EIA Notification, 2006 for the above mentioned project. The proposed project activity is listed as S.No. 3(a) Metallurgical Industry, under Category ‘B’ of the schedule of the EIA Notification, 2006 and amendments thereof.

The project of M/s Ramkrishna Forgings Limitedlocatedat Mauza- Bholadih, P S -Saraikela, District-SeraikelaKharsawan, Jharkhand is for Expansion of existing plant from 23,520 TPA to 50,000 TPA for Manufacturing of Grey, SG, CI and ADI Iron Casting Component by using electric furnaces.

Project Requirement Details :

Sl. No.	Type	Requirement	Permission details	Remark
1	Fuel	HSD: 20 liters/hr. (For Emergency Back-up)	Local filling stations	Through tankers
2	Power Requirement	Existing: 6MW Proposed: 10 MW Total: 16 MW	Source: Jharkhand Bijli Vitran Nigam Limited	Company has obtained permission For 16 MWVide Letter No. 2143 dated 28/10/2023

3	Water Requirement	Existing: 90 KLD Proposed: 90 KLD Total: 180 KLD	Source: Groundwater, permission from CGWA will be obtained for proposed requirement.	Company has obtained permission for drawl of 95 KLD ground water from CGWAVide NOC No.:CGWA/NOC/IND/ORIG/2024/20628 dated 08/01/2024 valid up to 31/07/2027
4	Manpower Requirement	Existing: 296 Nos. Proposed: 461 Nos. Total: 757 Nos.	--	--
5	Cost of the project	Existing: Rs. 17343.97 lakhs Proposed: Rs. 37,278.56 lakhs Total:Rs. 54,622.53 lakhs	--	--

Environmental site settings of the project:

Sl.No.	Particulars	Details			Remarks
1.	Total Land	7.21 Ha. (17.83 Acres)			Land Use: Industrial.
2.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total Area – 7.21 Ha. (17.83 Acres) [Existing - 5.94 Ha. & Proposed 1.27 Ha. of the land area is under the possession of the project proponent]			--
3.	Land Details (Khata No. and Khasra No.)	Sr. No.	Khata No.	Khasra No.	--
		1	21	328,330	

Sl.No.	Particulars	Details			Remarks																																								
		2	34	318,320,329																																									
		3	40	289,290,291,300,302,303,305,306, 307,308,309,310,316,292,296,327, 313,317,293,346,323,311,314,294, 347,326,312,315,295,348																																									
		4	31	319																																									
		5	42	288																																									
		6	43	89,90,287																																									
		7	11	298,299,304																																									
		8	17	301																																									
4.	Existence of habitation & involvement of R&R, if any	Project Site: Nil Study Area: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Nearest Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Baliguma village</td> <td>0.12 km</td> <td>SSE</td> </tr> </tbody> </table>				Nearest Habitation	Distance	Direction	Baliguma village	0.12 km	SSE	R&R: Not Involved.																																	
Nearest Habitation	Distance	Direction																																											
Baliguma village	0.12 km	SSE																																											
5.	Latitude and longitude of all corners of the project site	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td>A</td><td>22°47'55.75"N</td><td>86° 1'42.35"E</td></tr> <tr><td>B</td><td>22°48'0.34"N</td><td>86° 1'33.20"E</td></tr> <tr><td>C</td><td>22°48'3.97"N</td><td>86° 1'33.68"E</td></tr> <tr><td>D</td><td>22°48'4.36"N</td><td>86° 1'30.80"E</td></tr> <tr><td>E</td><td>22°48'5.04"N</td><td>86° 1'30.77"E</td></tr> <tr><td>F</td><td>22°48'5.73"N</td><td>86° 1'31.05"E</td></tr> <tr><td>G</td><td>22°48'5.84"N</td><td>86° 1'31.22"E</td></tr> <tr><td>H</td><td>22°48'5.70"N</td><td>86° 1'32.30"E</td></tr> <tr><td>I</td><td>22°48'5.86"N</td><td>86° 1'32.33"E</td></tr> <tr><td>J</td><td>22°48'5.75"N</td><td>86° 1'34.23"E</td></tr> <tr><td>K</td><td>22°48'5.38"N</td><td>86° 1'34.65"E</td></tr> <tr><td>L</td><td>22°48'5.34"N</td><td>86° 1'34.96"E</td></tr> <tr><td>M</td><td>22°48'5.48"N</td><td>86° 1'34.97"E</td></tr> </tbody> </table>	S. No.	Latitude	Longitude	A	22°47'55.75"N	86° 1'42.35"E	B	22°48'0.34"N	86° 1'33.20"E	C	22°48'3.97"N	86° 1'33.68"E	D	22°48'4.36"N	86° 1'30.80"E	E	22°48'5.04"N	86° 1'30.77"E	F	22°48'5.73"N	86° 1'31.05"E	G	22°48'5.84"N	86° 1'31.22"E	H	22°48'5.70"N	86° 1'32.30"E	I	22°48'5.86"N	86° 1'32.33"E	J	22°48'5.75"N	86° 1'34.23"E	K	22°48'5.38"N	86° 1'34.65"E	L	22°48'5.34"N	86° 1'34.96"E	M	22°48'5.48"N	86° 1'34.97"E	--
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Sl.No.	Particulars	Details			Remarks									
		N	22°48'5.36"N	86° 1'38.37"E										
		O	22°48'5.43"N	86° 1'38.92"E										
		P	22°48'5.04"N	86° 1'41.65"E										
		Q	22°48'3.81"N	86° 1'41.59"E										
		R	22°48'3.55"N	86° 1'43.63"E										
		S	22°48'3.20"N	86° 1'43.60"E										
		T	22°48'2.92"N	86° 1'45.72"E										
		U	22°48'2.82"N	86° 1'45.79"E										
6.	Elevation of the project site	186 meters above mean sea level			--									
7.	Involvement of Forest Land, if any	No Involvement of Forest Land			--									
8.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	Project Site: Nil Study Area: <table border="1"> <thead> <tr> <th>Water-body</th> <th>Distance (Km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Sanjai Nadi</td> <td>2.16 km</td> <td>SSE</td> </tr> <tr> <td>Kharkai River</td> <td>6.22</td> <td>SE</td> </tr> </tbody> </table>			Water-body	Distance (Km)	Direction	Sanjai Nadi	2.16 km	SSE	Kharkai River	6.22	SE	--
Water-body	Distance (Km)	Direction												
Sanjai Nadi	2.16 km	SSE												
Kharkai River	6.22	SE												
9.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	Study area: There is no national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve within the study area. List of Protected Forest <u>Protected Forest</u> Few Protected Forest within the 10 km study area – <ul style="list-style-type: none"> • Protected forest near, Nandidih village is at 2.22 km in North direction. • Protected forest near Muria village is at 3.84 km in SW direction • Protected forest near Khuchidih village is at 3.90 km in East direction. 			--									

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Land Details :

Khata no.	Plot no.
21	328 & 330
34	318, 320 & 329
40	289,290,291,300,302,303,305,306,307,308 , 309,310,316,292,296, 327,313,317,293,346,323,311,314,294,347 , 326,312,315,295,348
31	319
42	288
43	89, 90 & 287
11	298, 299 & 304
17	301

The plant was installed and operating as per CTE& CTO of JSPCB as the project did not attract any conditions for EC as per EIA Notification, 2006 and amendments thereof. The existing project was accorded with Consent to Establish (CTE) having ref no. JSPCB/HO/RNC/CTE-18236565/2024/307 dated on 25/06/2024 from Jharkhand State Pollution Control Board (JSPCB) for the production of Grey, SG, CI and ADI Iron Casting Component – 23520 TPA by using electric furnace. Consent to Operate (CTO) was obtained from JSPCB vide ref no JSPCB/HO/RNC/CTO-21722160/2025/1803 dated 01.07.2025 for the production of Grey, SG, CI and ADI Iron Casting Component – 23520 TPA, valid till 31.03.2026.

The unit configuration and capacity of existing and proposed project is given as below:

Plant Equipment/Facility	Existing facilities		Proposed Units		Final (Existing + Proposed)	
	As per CTE Dated 25.06.2024 and CTO dated 01.07.2025		Config.	Cap. TPA	Config.	Cap. TPA
	Config.	Cap. TPA				
Casting Line						
Induction Furnace	3x4T 12 ton/hour	23,520 (Manufacturing of Grey, SG, CI and ADI Iron Casting Component by	2x3T 6 ton/hour	26,480 (Manufacturing of Grey, SG, CI and ADI Iron Casting Component by	2x3T +3x4T 18 ton/hour	50,000 (Manufacturing of Grey, SG, CI and ADI Iron Casting Component by
Moulding Plant	90 moulds/hour		250 moulds/hour		340 moulds/hour	
Sand Plant	55 ton/hour		53 ton/hour		108 ton/hour	

Core Shooter	40 litre capacity	using electric furnaces)	Existing Core Shooter will cater the requirement	using electric furnaces)	Existing Core Shooter will cater the requirement	using electric furnaces)
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The details of the raw material requirement for the proposed expansion project along with its source and mode of transportation are given as below:

Sl. No.	Item	Quantity (TPA)			Source of Raw Material	Distance (km)	Mode of Transport
		Existing	Proposed	Total after Proposed expansion			
1	Pig Iron	4876	5490	10366	Local market	50 km	By road in covered trucks
2	Steel Scraps	22946	25834	48780	Local market	50 km	By road in covered trucks
3	Ferro Alloys (Additive)	860	969	1829	Local market	50 km	By road in covered trucks
4	Silica Sand	337841	380359	718200	Local market	50 km	By road in covered trucks
5	Bentonite	3387	3813	7200	Local market	50 km	By road in covered trucks
6	Coal Dust	1129	1271	2400	Local market	50 km	By road in covered trucks

Baseline data collection period: 1stDecember 2025 to 28th February 2026. The summary of baseline data is provided below.

Parameters	No. of Sites	Description	Permissible Level
Ambient Air Quality	8	<ul style="list-style-type: none"> PM2.5 -26.0 to 53.0 µg/m³ PM10 -43.4 to 85.0 µg/m³ SO₂ – 6.1 to 23.8 µg/m³ NO₂ - 10.6 to 40.8µg/m³ CO - 0.40 to 1.28mg/m³ 	60 µg/ m ³ 100 µg/ m ³ 80 µg/ m ³ 80 µg/ m ³ 02 mg/m ³
Ambient Noise Quality	8 (Project site Values)	Day Time (6:00 a.m. to 10:00 p.m.) 70.26 Leq dB(A) Night Time (10:00 p.m. to 6:00 a.m.) 61.55 Leq dB(A)	75 Leq dB (A) 70 Leq dB (A)

Surface Water Quality	8	<ul style="list-style-type: none"> pH varies from 7.44 to 7.84, DO varies from 5.4 to 6.6 mg/l, BOD varies from 3.56 to 22.0 mg/l and COD varies from 14.0 to 64.0mg/l. Total Coliform 130-600 MPN/100ml 	IS:2296 Class C Norms
Ground Water Quality	8	<ul style="list-style-type: none"> pH varies from 7.10 to 7.56, Total Hardness varies from 100.0 to 196.2 mg/l, Total Dissolved Solid varies from 218.0 to 450.0 mg/l., Chloride varies from 32.60 to 101.0 mg/l Fluoride varies from 0.34 to 0.65 mg/l. 	<p>6.5-8.5</p> <p>200-600 mg/L</p> <p>500-2000 mg/L</p> <p>250- 1000mg/L</p> <p>1.0-1.5mg/l</p>
Soil Quality	8	<ul style="list-style-type: none"> pH: 7.30 to 7.95 Potassium K: 105.14 to 145.10 kg/ha. Available nitrogen N: 166.52 to 212.0 (kg/ha.) Phosphorus: 21.63 to 29.44Kg/Ha. Organic matter: 0.35% to 0.52% 	--

It has been informed by the project proponent that no court case, litigation or show cause is pending against the unit or land.

Name of the EIA consultant: M/s Vardan Environet LLP [S.No. 37 in List of ACOs, Certificate no. NABET/EIA/2326/RA 0284_Rev.01, valid up to 04.05.2026].

STATUTORY CLEARANCES :

1	Land docs	:	Owned land :M/s Ramkrishna Forgings Limited.
2	CO	:	The CO, Saraikela vide letter no. 1489, dated 12.11.2025 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani.
3	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1783, dated 25.11.2025 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath &Topchanchi Wildlife Sanctuary.
4	DFO Territorial	:	DFO, Saraikela Forest Division vide letter no. 272, dated 16.02.2026 certified that the distance of notified forest is more than 250 meters from project site.
5	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-18236565/2024/307, dated 25.06.2024.

6	Consent to Operate (CTO)	:	CTO issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-21722160/2025/1803, dated 01.07.2025.
7	CGWA	:	No Objection Certificate (NOC) for Ground Water Abstraction issued by CGWA vide NOC No. CGWA/NOC/IND/ORIG/2024/20628, dated 08.01.2024 valid up to 31.07.2027.

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 24, 25, 26, 27 & 28.04.2026, the Committee recommends for issuing of ToR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV alongwith following specific condition :-

- i. In compliance of OM no. F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.

2. Establishment of Greenfield Plant for 10,00,000 TPA Pickling Line with other facilities such as HR Slitter, Cut-to-Length, Coil Preparation Line by M/s BMW Industries Limited, at Plot no. : IV/B-1 (P), Phase IV, Balidih Industrial Area, Bokaro Steel City, Village : Mathodih, Tehsil : Chas, Distt. : Bokaro, Jharkhand.

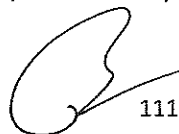
(Proposal no.: SIA/JH/IND1/ 569809/2026)

Name of the consultant :VardanEnvironet LLP, Haryana.

This is an amendment project which has been taken for appraisal on 26.04.2025. This amendment is only for the deletion of two plots which were inadvertently mentioned in the EC granted. Deleted plots number are 551 (P) and 573 (P).

Project Category: 3 (a) Metallurgical Industries (Ferrous & Non ferrous), Category :B1 as per EIA Notification, 2006.

M/s BMW Industries Limited has made an online application vide proposal no. SIA/JH/IND1/553737/2025 dated 05.10.2025 along with copy of EIA/EMP report, Form – 2 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the


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project mentioned above. The proposed project activity is listed at 3(a) Metallurgical Industries under Category "B" of the schedule of EIA Notification, 2006 and appraised at State Level.

Baseline Environmental Monitoring of the project was conducted from 1st December 2024 to 28th February 2025.

Public hearing for the proposal was held on 07.08.2025.

M/s BMW Industries Limited has obtained Environment Clearance by SEIAA vide F. No. EC/SEIAA/2024-25/3589/2024 dated 25.11.2025) for the project.

The Company has now applied for EC amendment application vide Proposal No. SIA/JH/IND1/569809/2026 dated 06.03.2026.

Reasons for Amendment in EC-

- M/s BMW Industries Limited has obtained Environment Clearance from SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3589/2024 dated 25.11.2025 for establishment of greenfield Plant for 10,00,000 TPA Pickling Line with other facilities such as HR Slitter, Cut-to-Length, Coil Preparation Line in Industrial land of 1.95 Ha. (4.81 Acres) at Plot No. IV/B-1 (P), Phase IV, Balidih Industrial Area, Bokaro Steel City, Jharkhand (covering Khata No. 8, 121, 183, 188, 24, 177, 112, 111, 18, 128, 92 and Plot No. 388(P), 387(P), 392(P), 393(F), 394(P), 395(P), 397(P), 390(P), 551(P), 561(P), 578(P), 595(P), 597(P), 912(P), 552(P), 553(P), 560(P), 562(P), 554(P), 575(P), 573(P), 577(P), 579(P), 596(P), 593(P), 913(P)).
- The amendment is sought to revise the total plot no. by excluding Plot No. 551(P) and 573(P), as these plots do not form part of the legally owned and physically possessed project land. The revised location of the plant shall be at –
"Plot No. IV/B-1 (P), Phase IV, Balidih Industrial Area, Bokaro Steel City, Jharkhand (covering Khata No. 8, 121, 183, 188, 24, 177, 112, 111, 18, 128, 92 and Plot No. 388(P), 387(P), 392(P), 393(F), 394(P), 395(P), 397(P), 390(P), 561(P), 578(P), 595(P), 597(P), 912(P), 552(P), 553(P), 560(P), 562(P), 554(P), 575(P), 577(P), 579(P), 596(P), 593(P), 913(P))"
- We would like to accept our error made in land details (khata No.), which was purely Unintentional and Inadvertent in nature.
- We also request the SEAC to exempt us from Public Hearing, as existing PH is valid till 06.08.2028 and there is no change in final Configuration, Production and Plant Area for which PH was conducted.

Environmental Site Settings:

S. No.	Particulars	Details	Remarks
1	Total land	1.95ha [Industrial land]	Land Use:

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S. No.	Particulars	Details			Remarks
					Industrial Land
2	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total area – 1.95 Ha [leased area: 1.95 Ha,]			Located Notified industrial area --
3	Existence of habitation & involvement of R&R, if any.	R&R is not applicable Existence of Habitation Project Site – Nil Study Area: Nearest			
4	Land details	Habitation	Distance	Direction	--
		Gorabali	100 meter	SE	
		Khata No.	Plot No.		
		8	388 (P)		
		121	387 (P), 392(P), 393(F),		
		183	394 (P), 395 (P)		
		188	397(P)		
		24	390(P)		
		177	561(P), 578(P), 595(P), 597(P), 912(P)		
		112	552(P), 553 (P), 560(P), 562 (P)		
		111	554(P), 575(P),		
		18	577(P), 579(P),		
		128	596(P), 593(P)		
		92	913(P)		
5	Latitude and Longitude of all corners of the project site.	Corner	Latitude	Longitude	--
		A	23°41'32.68"N	86° 3'44.12"E	
		B	23°41'30.24"N	86° 3'43.47"E	
		C	23°41'26.83"N	86° 3'33.87"E	
		D	23°41'28.68"N	86° 3'33.17"E	

S. No.	Particulars	Details	Remarks									
6	Elevation of the project site	258 m above mean sea level	--									
7	Involvement of Forest land, if any	No involvement of Forest Land	--									
8	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	<p>Project Site: No water bodies within the project site.</p> <p>Study area</p> <table border="1"> <thead> <tr> <th>Water Body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Khanjo Nadi</td> <td>5.03</td> <td>West</td> </tr> <tr> <td>Damodar River</td> <td>5.8</td> <td>NE</td> </tr> </tbody> </table>	Water Body	Distance	Direction	Khanjo Nadi	5.03	West	Damodar River	5.8	NE	--
Water Body	Distance	Direction										
Khanjo Nadi	5.03	West										
Damodar River	5.8	NE										
9	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	<p>There is no ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/reserved forest within the 10km study area.</p> <p>However, there is few protected forest within the 10km study area.</p> <ul style="list-style-type: none"> ➤ Mahlidih PF is at 6.78 km in NE direction. ➤ Bhandaridah PF is at 7.62 km in NNE Direction. ➤ Chirudih PF is at 7.82 km in NNE Direction 	--									

Land Details :

Khata no.	Plot no.
8	388 (P)
121	387 (P), 392(P), 393(F)
183	394 (P), 395 (P)
188	397(P)
24	390(P)
177	561(P),578(P), 595(P), 597(P), 912(P)
112	552(P), 553 (P), 560(P), 562 (P)
111	554(P), 575(P)

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18	577(P), 579(P)
128	596(P), 593(P)
92	913(P)

The unit configuration and capacity of existing and proposed project is given as below:

Sl. No	Plant	Configuration	Capacity (TPA)
1.	Pickling Line along with other facilities such as HR Slitter, Cut-to-Length, Coil Preparation Line	1x 1MTPA	1.0 MTPA Hot Rolled Pickled/Hot Rolled Pickled & Oiled Coil/Sheet
2.	Acid Regeneration Plant	1 x 2000 LPH	2000 LPH ~7200TPA Recovered acid (Recalculated in process)

The details of the raw material requirement for the proposed project along with its source and mode of transportation is given as below:

Sl. No.	Item	Requirement in TPA	Source	Distance & Mode of Transport
1.	HR Coils	10,09,000	Bokaro/Tata/Angul/ JSW / AMNS, Imported (Kolkata/Haldia Port)	(330km) By Train & Road
Other Chemicals				
2.	Hydrochloric Acid (32%)	7200	Local Market	Within 10kms
3.	Inhibitor	18	Local Market	Within 10kms

The water requirement for the proposed project is 65KLD for both industrial and domestic usage. The required water will be sourced from ground water. Company has obtained CGWA NOC for 65KLD vide letter no. NOC No. NOC/IND/JH/2025/12206/N, Dated 10.09.2025.

Total requirement of power for proposed project is 1.5 MW. Power requirement will be sourced from Damodar Valley Corporation (DVC). The project proponent has obtained power permission for 1.5MW provided in EIA report. For emergency power requirement 1x1200 KVA DG Set has been proposed to be installed under the present proposal.

Baseline Environmental Studies: 1st December 2024 to 28th February 2025.

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Parameters	Description	Permissible Level					
AAQ parameters at 8 Locations (min and max)	<ul style="list-style-type: none"> ➤ PM10 54.7 to 75.5µg/m³ ➤ PM2.5 30.1 to 53.4µg/m³ ➤ SO2 7.2 to 9.5µg/m³ ➤ NO2 10.8 to 17.0 µg/m³ ➤ CO 0.56 to 0.72mg/m³ 	100 µg/ m ³ 60 µg/ m ³ 80 µg/ m ³ 80 µg/ m ³ 04 mg/m ³					
AAQ Modelling (Incremental GLCs) at (Project Site) Model Used – AERMOD	<ul style="list-style-type: none"> ➤ PM10 – 0.083µg/m³ ➤ PM2.5 – 0.052 µg/m³ ➤ SO2 – 0.005µg/m³ ➤ NOx – 0.003 µg/m³ ➤ CO – 0.000002 mg/m³ 	--					
Ground Water Quality	<ul style="list-style-type: none"> ➤ pH varies from 7.00 to 8.3 ➤ Total Hardness varies from 88.42 to 142.17 mg/l ➤ Total Dissolved Solid varies from 210.0 to 340.0 mg/l ➤ Chloride varies from 45.90 to 73.80 mg/l ➤ Fluoride varies from 0.30 to 0.48 mg/l. 	6.5-8.5 200-600 mg/l 500-2000 mg/l 250-1000mg/l 1.0-1.5mg/l					
Surface Water Quality	<ul style="list-style-type: none"> ➤ pH varies from 7.15 to 7.77, ➤ DO varies from 6.3 to 7.1 mg/l, ➤ BOD varies from BLQ to 4.86 mg/l ➤ COD varies from BLQ to 12 mg/l. ➤ Total Coliform between < 2 to 380 MPN/100ml. 	IS:2296 Class C Norms					
Soil Quality	<ul style="list-style-type: none"> ➤ pH -7.20 to 7.98 ➤ Potassium K - 102.34 to 196.32 kg/ha ➤ Available nitrogen N - 154.10 to 180.0 (Kg/ha) ➤ Phosphorus - 20.52 to 26.0Kg/Ha ➤ Organic matter - 0.40% to 0.51% 	----					
Noise Level	<ul style="list-style-type: none"> ➤ Day Time (6:00 a.m. to 10:00 p.m.) 73.45 Leq dB(A) ➤ Night Time (10:00 p.m. to 6:00 a.m.) 69.50 Leq dB(A) 	75 Leq dB (A) 70 Leq dB (A) (Industrial)					
	<ul style="list-style-type: none"> ➤ Day Time (6:00 a.m. to 10:00 p.m.) 44 to 51.65 Leq dB(A) ➤ Night Time (10:00 p.m. to 6:00 a.m.) 38 to 42 Leq dB(A) 	55 Leq dB (A) 45 Leq dB (A) (Residential)					
Traffic assessment study findings	<ul style="list-style-type: none"> • The traffic study was carried at locations NH-320is adjacent to the plant in south direction • Transportation of Raw material, Fuel and Finished product will be done by Road. • Existing PCU is 3338PCU/Dayon NH-320 and existing level of service (LOS) is: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Road</td> <td>V (Volume in</td> <td>C</td> <td>Existing</td> <td>LOS</td> </tr> </table>	Road	V (Volume in	C	Existing	LOS	
Road	V (Volume in	C	Existing	LOS			

Parameters	Description				Permissible Level
		PCU/day)	(Capacity in PCU/day)	V/C Ratio	
NH-320	3338	15000	0.22	B	
	<ul style="list-style-type: none"> • PCU load after proposed project will be 3368 PCU/Day (Existing 3338 + 30) for NH-320.level of service (LOS) will be after proposed project will remain 'B' 				
	Road	V (Volume in PCU/day)	C (Capacity in PCU/day)	V/C Ratio	LOS
NH-320	3368	15000	0.22	B	
	<p><i>Conclusion: Level of Service will be "B" i.e. Very Good for NH-320including additional traffic due to proposed project.</i></p> <p><i>Note: Capacity as per IRC 64:1990 Guideline for capacity for roads in Rural Areas.</i></p>				
Flora and fauna	<p>Total of 15 Schedule-I species are found in the buffer area, which includes 07 Mammals, 03 birds, 05 Reptiles species (Herpestesedwardsi, Hystrixindica, Varanusbengalensis, and Felischaus, Lutralutra, Canisaureus,,Vulpusbenghalensis. Reptiles like Python molurus, Najanaja&Varanusbengalensis, Ptyas mucosa, Xenochrophispiscator. Birds like Spilornischeela, Bubo bubo& Accipiter badius) in the study area. Details given in Chapter-3.</p> <p>Wildlife Conservation Plan is prepared and submitted to Principal Chief Conservator of Forests Wildlife and Chief Wildlife Warden, Bokaro on 13.08.2025. WLCP is submitted. The WLCP Approval is under process.</p>				--

The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

Type of Waste	Quantity (TPA)	Mode of Disposal
Steel Scrap:HRcutend/Coilends	4000	Will be sold in the market
SewageSludge	5	Will be used in greenbelt area & given to local farmers to be used as manure
FerrousOxide	5000	Will be sold in the market
Hazardous Waste		
Used Oil	2 kl/year	Will be given to register recyclers

Type of Waste	Quantity (TPA)	Mode of Disposal
ETPSludge& Salt	100	Will be sent to JSPCB authorized TSDF

1. Effluent generation details:

Type of Waste	Quantity (m3/hr.)	Mode of Disposal
Acidic Rinse water	1.5	Will be treated in ETP

Public Consultation

Details of advertisement given	"PrabhatKhabar" and "The Times of India" on dated 26.06.2025
Date of public consultation	07.08.2025
Venue	BIADA Bhawan, Balidih, Bokaro Steel City-14, Bokaro, Jharkhand.
Presiding Officer	Mr.Mohammad Mumtaz, ADM, Bokaro, Jharkhand
Major issues raised	The issues raised in the public hearing were for employment to be given to local people, control of pollution from the project area, Greenbelt Development and Scarcity of drinking water.

Action plan as per MoEF&CC O.M. dated 30/09/2020

Sl. No.	Activities	Year of Implementation (Budget in INR) lakhs			Total Expenditure in Rs. lakhs
		1 st Year	2 nd Year	3 rd Year	
1.	Renovation of the drainage system in Gorabali and Balidih village.	10.0	10.0	--	20.0
2.	Development of middle school of Gorabali village by maintenance of existing school building, providing Furniture in classes and in staff room, green boards in classrooms, construction of one pair of toilets for boys & girls with common septic tank, installation of one number water cooler with RO for drinking water, installation of playing slides & swings for students.	10.0	10.0	10.0	30.0
3.	Greenbelt development by plantation of trees alongside the road with proper fencing at Gorabali Village (from Middle School Gorabali to Gorabali Hanuman Mandir).	10.0	--	--	10.0

Sl. No.	Activities	Year of Implementation (Budget in INR) lakhs			Total Expenditure in Rs. lakhs
		1 st Year	2 nd Year	3 rd Year	
4.	Installation of 2 numbers of Hand Pumps at different locations in Village Gorabali and Baladih.	--	--	5.0	5.0
5.	Renovation of pond in Gorabali village by providing Sitting benches/solar lights and Beautification of pond by planting total 300 trees on the boundary of pond.	4.0	4.0	2.0	10.0
6.	Organizing health check-up camps in Gorabali and Balidih village twice in a year for (eye check, body checkup, blood donation activities)	5.0	5.0	5.0	15.0
7.	Renovation of the Balidih football ground. Sports kits will be provide to the children, promotion of sports activity every year will be done. Company will also provide 1 no. of 1 water purification facility with water cooler.	--	10.0	10.0	20.0
8.	Providing 1 no. of ambulance to Charity hospital in Balidih village, equipped with life-supporting facilities such as oxygen supply units, nebulizers, stretchers, first aid boxes and other necessary accessories for the benefit of nearby villages.	--	20.0	--	20.0
Total		39.0	59.0	32.0	130.0

Estimated cost for the proposed project is Rs. 85.00 Crores.

The employment generation from the proposed project is 50.

Capital cost for environmental management plan (EMP) is proposed as Rs. 245.44 Lakhs, The annual recurring cost towards the environmental management plan is proposed as Rs 24.10Lakhs. The details of cost for environmental protection measures are as follows:

Sl. No.	Environmental Protection Measures	Capital Cost Rs. In lakhs	Recurring Cost Rs. In lakhs/year
1.	<i>Air Pollution Control Measures</i>		
	Wet Scrubbers with Fume exhaust system with pickling line	15.0	1.00

Sl. No.	Environmental Protection Measures	Capital Cost Rs. In lakhs	Recurring Cost Rs. In lakhs/year
	Bag filter will be provided in material handling area.	10.0	1.00
	Sub Total (A)	25.0	2.00
2.	<i>Water Pollution Control Measures</i>		
	Effluent Treatment Plant	25.0	2.0
	Acid Regeneration Plant	10.0	2.0
	Water Sprinklers	5.0	0.5
	Sub Total (B)	40.0	4.5
3.	<i>Noise Pollution Control Measures</i>		
	Acoustic Enclosure or Separate housing for DG Set and Compressor	10.0	1.5
	Sub Total (C)	10.0	1.5
4.	<i>Storage and Solid Waste Management</i>		
	RCC flooring for storage of raw materials, temporary storage of ETP Sludge	10.0	1.0
	Concrete platform with bund wall and oil collection system for storage of HSD and Used Oil	10.0	1.5
	Sub Total (D)	20.0	2.5
5.	<i>Environment Monitoring Program</i>		
	Sub Total (E)	--	5.95
6.	<i>Occupational Health & Safety</i>		
7.	<i>Rain Water Harvesting Storage Tank</i>		
8.	<i>Greenbelt Development and Landscaping</i>		
9.	<i>Budget for addressing public hearing issue Activities</i>		
	Total	245.44	24.10

Green Belt will be developed over 33% of the plant area. Indigenous trees will be planted in

0.66 Hectare out of the total area of 1.95 Hectare. Tree density of 2500 trees per hectare in consultation with local DFO will be planted. Capital budget of Rs. 5.94 lakhs will be spent on tree plantation and the budget of approx. Rs. 1.0 lakhs shall be kept for yearly maintenance.

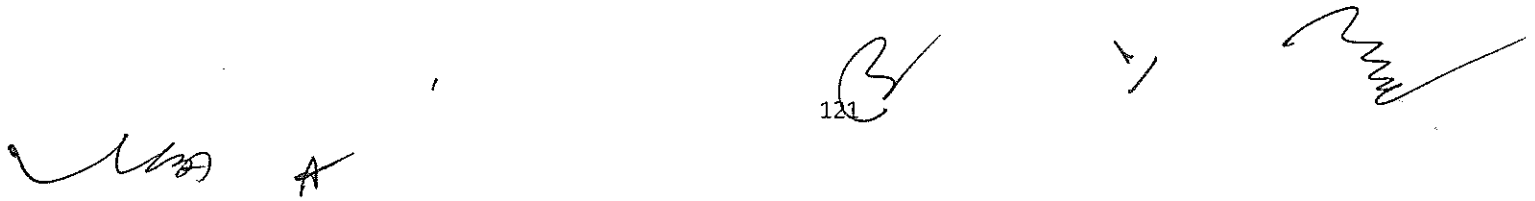
There is no violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration.

Name of the EIA consultant: M/s Vardan Environet LLP [S.No. 37 in List of ACOs, Certificate no. NABET/EIA/2326/RA 0284_Rev.01, valid up to 04.05.2026].

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Land allotted on lease by BIADA, Bokaro Steel City.
2	CO	:	The CO, Chas (Bokaro) vide letter no. 1181, dated 25.05.2024 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 904, dated 17.05.2024 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	DFO Territorial	:	DFO, Bokaro Forest Division vide letter no. 1081, dated 30.05.2024 certified that the distance of notified forest is 260 meters from project site.
5	CGWA	:	No Objection Certificate (NOC) for Ground Water Abstraction issued by CGWA vide NOC No. NOC/IND/JH/2025/12206/N, dated 10.09.2025 valid up to 09.09.2028.
6	Previous Environmental Clearance	:	Previous EC granted by SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3589/2024/482, Dated: 06.11.2025.

Based on the presentation made and information provided, the Committee decided that the proposal for Establishment of Greenfield Plant for 10,00,000 TPA Pickling Line with other facilities such as HR Slitter, Cut-to-Length, Coil Preparation Line by M/s BMW Industries Limited, at Plot no. : IV/B-1 (P), Phase IV, Balidih Industrial Area, Bokaro Steel City, Village : Methodih, Tehsil : Chas, Distt. : Bokaro, Jharkhand is recommended for grant of amended EC as mentioned above. All other terms and conditions of the earlier EC letter no. EC/SEIAA/2024-25/3589/2024/482, Dated: 06.11.2025 shall remain the same.



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3. Development of "Smart City Project" of M/s Ranchi Smart City Corporation Limited, Village :Latma, Jaganathpur, Kalyanpur, Kachnartoli, Hatia, Tehsil :Namkum, Distt. : Ranchi, Jharkhand.

(Proposal no.: SIA/JH/ INFRA2 /556846 /2025)

Name of the consultant :Ind Tech House Consult, New Delhi.

This is an amendment project which has been taken for appraisal on 26.04.2026.

Project Sector: 8(b) Townships and Area Development Projects , Category: B1.

Application for Environment Clearance (EC) as per EIA notification, 2006.

LAND DETAILS

M/s Ranchi Smart City Corporation Limited has proposed for Amendment in Environmental Clearance for Development of "Smart City project", Ranchi, Jharkhand.

The total Plot area 656.30 Acre (2655952 sqm) and Built-up Area is 46,93,734.54 sqm will remain same as per previous Environment Clearance (EC) vide Letter no. EC/SEIAA/2018-19/2089/2018/287 dated 20/06/2019. Consent to Establish from Jharkhand State Pollution Control Board has been obtained vide letter no. JSPCB/HO/RNC/CTE-5719859/2021/120, Dated 06/04/2021 and valid upto 10/08/2025, further renewal of CTE has been obtained vide application No. 23531465 Dated :13/08/2025 and valid upto 20/10/2027.

Details of Environment clearance is as below:

Description	Quantity as per previous EC	After Amendment in EC	Unit	Proposed Amendment
Plot Area	26,55,952	26,55,952	SQMT	No Change
Project Location	Village Latma, Kalyanpur, Hatia, Jagarnathpur, Kachnartoli Latitude: 28° 18' 16.50"N Longitude: 85° 18' 01.44"E	Village Latma, Kalyanpur, Hatia, Jagarnathpur, Kachnartoli Latitude: 28° 18' 16.50"N Longitude: 85° 18' 01.44"E	--	No Change
Proposed FAR area (incl. Institutional, Residential, Commercial, Public/ Semi Public Mix use component)	46,93,734.54	46,93,734.54	SQMT	No Change
Expected Population	69,270	69,270	Persons	No Change
Total Water Requirement	18	18	MLD	No Change
Fresh Water Requirement	12	12	MLD	No Change
Treated Water Requirement	6	6	MLD	No Change
Proposed STP Capacity	16	16	MLD	No Change

Proposed Total Parking	2755	2755	ECS	No Change
Municipal Solid Waste Generation	43.09	43.09	TPD	No Change
Total Power Requirement	131.16	131.16	MW	No Change
Total Green Area (33.4% of total plot area)	219.47	219.47	ACRES	No Change
Rain Water Harvesting Pit	16	16	Nos.	No Change
Project Cost	1710	1710	Cr.	No Change

Land use Distribution:

S.No.	Landuse	Area (acres) As per EC	After Amendment in EC	Proposed Amendment
1	Institutional	134.065	134.065	No Change
2	Residential	86.51	86.51	No Change
3	Commercial	65.67	65.67	No Change
4	Public/ Semi Public	55.72	55.72	No Change
5	Mix Use Component	69.14	69.14	No Change
6	Open Space and Circulation	245.2	245.2	No Change
	Total	656.3	656.3	No Change

Green Area Details:

S.No.	Particulars	As per EC Area (acres)	After Amendment in EC Area (Acres)	Proposed Amendment a
1.	Open Spaces, Park and river Front development Greens	112.17	112.17	No Change
2.	Road Side plantation	51.8	51.8	No Change
3.	15% of all plot are to be converted in green	55.5	55.5	No Change
	Total Green Area (33.4% of total plot area)	219.47	219.47	No Change

Water Requirement Details:

S.No.	Particulars	As per Previous EC Water Demand (MLD)	After Amendment in EC Water Demand (MLD)	Proposed Amendment a
1.	Total Water Demand	18	18	No Change
2.	Capacity of STP	16	16	No Change
3.	Treated Water Demand (Source – on site STP treated water)	6	6	No Change
4.	Fresh Water Demand (Source – Hatia Dam WTP)	12	12	No Change
5.	Waste Water Generation	14.4	14.4	No Change
6.	Total Sludge Generation	750 kg/day	750 kg/day	No Change

Power Requirement Details:

Classification	As Per Previous EC Total Power Demand (MW)	After Amendment in EC Total Power Demand (MW)	Proposed Amendment a
Residential	8.10	8.10	No Change
Residential-EWS/LIG	4.04	4.04	No Change
Commercial	34.51	34.51	No Change
Institutional	50.48	50.48	No Change
Mixed Use	17.98	17.98	No Change
Public/Semi public/Service etc.	15.16	15.16	No Change
Roads and Open spaces etc.	0.89	0.89	No Change
Total	131.16	131.16	No Change

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Out of 656.30 acres land 647.08 Acres land was transferred to Ranchi Smart City Corporation Limited (RSCCL) by Urban Development & Housing Department, Govt. of Jharkhand, Ranchi and Deed of Conveyance (PRINCIPAL DEED) was registered on 05th Nov 2020. 647.08 Acres land is in our possession.

While scrutiny and physical verification of the Schedule of Lands of Registered Deed .i.e. "PRINCIPAL DEED" dated 5/11/2020 as per Master Plan of Ranchi Smart City, RSCCL has found lots of discrepancy in Plot No., Plot size and Khata No. with respect to area in Revenue Map of five (5) Villages i.e. Latma, Kalyanpur, Kachnartoli, Jagarnathpur and Hatia.

During physical verification it has been found that in 618.92 acres of land was verified by both the parties. The main discrepancy/anomaly occurred in duplication in allocation of plots, changes in Khata No., outside allocation of land from the the physical boundary of Ranchi Smart City. In addition to that there are many plots which needs to be added and many plots needs to be deleted from the schedule. Accordingly, a rectified land schedule of 618.92 acres is prepared as part-1 of Principal Deed and was registered on 8th may 2023.

There is no change in the approved Master Plan of Ranchi Smart City, project plot area, or any other parameters of the Environmental Clearance.

comparative statement of the land schedule as per the approved Environmental Clearance (EC) and Deed of Conveyance (PRINCIPAL DEED) dated 05th Nov 2020, and as per the rectified deed registered on 8th may 2023 is as below:

Village-HATIA, Thana No.-248									
As per EC & Deed of Conveyance				As per Rectified Deed					
S.No. Deed of Conv.	Khata No.	Plot No.	Area As per Deed of Conv. (Acres)	S.No.	Khata No.	Plot No.	Allotment Type	Area As per Reg. Deed (Acres)	Rectification Details
1	223	1	0.11	1	223	1	Full	0.11	
2	223	2	0.35	2	223	2	Full	0.25	Area change
3	223	3	0.17	3	223	3	Full	0.17	
4	223	4	0.14	4	223	4	Full	0.14	
5	223	5	0.34	5	223	5	Part	0.20	Area change
6	223	6	0.46	6	223	6	Part	0.37	
7	96	7	0.30	7	96	7	Full	0.30	
8	223	8	0.85	8	223	8	Full	0.85	Area change
9	96	9	0.43	9	96	9	Part	0.42	Area change
10	96	10	0.51	10	96	10	Part	0.43	Area change
11	96	11	0.39	11	96	11	Part	0.20	Area change
12	96	12	0.06	12	96	12	Part	0.02	Area change
13	96	13	0.38	13	96	13	Part	0.18	Area

									change
14	96	14	0.07	14	96	14	Part	0.04	Area change
15	96	15	0.19	15	96	15	Part	0.06	Area change
16	14	16	1.41	16	14	16	Part	1.28	Area change
17	14	17	0.65	17	14	17	Full	0.65	
18	14	18	1.20	18	14	18	Part	1.18	Area change
19	223	19	1.09	19	223	19	Part	1.04	Area change
				20	96	29	Part	0.07	New plot added
				21	96	30	Part	0.01	New plot added
				22	223	35	Part	0.04	New plot added
				23	93	37	Part	0.02	New plot added
20	223	44	0.70	24	223	44	Part	1.93	Area change
21	223	45	0.14	25	223	45	Full	0.14	
22		46	0.14	26	223	46	Full	0.14	Khata No. Added
23	96	47	0.70	27	96	47	Part	0.61	Area change
24	96	48	0.21						Removed as plot is outside ABD area
25	223	49	1.34	28	223	49	Part	0.15	Area change
26	149	197P	0.47	29	149	197	Part	0.47	Plot No. Change
27	190	198P	0.17	30	190	198	Part	0.17	Plot No. Change
				Total				11.64	

VILLAGE- JAGARNATHPUR, THANA NO.244									
As per EC & Deed of Conveyance				As per Rectified Deed					
S.No. Deed of	Khata No.	Plot No.	Area As per Deed of Conv. (Acres)	S.No.	Khata No	Plot No	Allotment Type	Area As per Reg. Deed	Rectification Details

Conv.								(Acres)	
1	189	1198	0.19						Deleted
2	54	1199	0.15	4	16	1199	Part	0.01	Area Change/Khata no. changed
3	7	1200	0.74	5	7	1200	Part	0.67	Area Change
4	7	1201	0.75	6	7	1201	Full	0.75	
5	103	1202	2.67	7	103	1202	Part	2.46	Area Change
6	41	1203	0.92	8	41	1203	Full	0.92	
7	58	1204	2.86	9	90	1204	Full	1.42	Area Change/Khata no. changed
8	73	1205	0.67	10	73	1205	Part	0.65	Area Change
9	129	1206	0.24	11	129	1206	Part	0.20	Area Change
10	67	1207	0.82	12	67	1207	Part	0.69	Area Change
11	160	1208	0.20	13	160	1208	Part	0.18	Area Change
12	160	1209	0.34	14	160	1209	Part	0.27	Area Change
13	158	1210	0.24	15	158	1210	Full	0.24	
14	157	1211	0.06	16	157	1211	Full	0.06	
15	158	1212	0.10	17	158	1212	Full	0.10	
16	165	1213	0.21	18	156	1213	Full	0.21	khata no. changed
17	137	1214	0.23	19	137	1214	Full	0.23	
18	123	1215	0.55	20	123	1215	Full	0.55	
19	10	1216	0.25	21	10	1216	Full	0.25	
20	28	1217	0.16	22	28	1217	Full	0.16	
21	28	1218	0.05	23	28	1218	Full	0.05	
22	169	1219	0.40	24	169	1219	Full	0.40	
23	170	1220	0.79	25	170	1220	Full	0.79	


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24	162	1221	0.05	26	162	1221	Part	0.03	Area Change
25	28	1222	0.43	27	28	1222	Part	0.42	Area Change
26	10	1223	0.25	28	10	1223	Part	0.23	Area Change
27	73	1224	0.75	29	73	1224	Part	0.09	Area Change
28	63	1225	0.97	30	63	1225	Part	0.23	Area Change
29	7	1226	0.77	31	7	1226	Part	0.08	Area Change
30	7	1227	0.70						Deleted
31	7	1228	0.17	32	7	1228	Part	0.02	Area Change
32	67	1229	0.30	33	67	1229	Part	0.04	Area Change
33	143	1230	0.10						Deleted
34	140	1231	0.35	34	140	1231	Part	0.30	Area Change
35	73	1232	0.09	35	73	1232	Part	0.08	Area Change
36	67	1233	0.03						Deleted
37	7	1234	0.07	36	7	1234	Part	0.03	Area Change
38	7	1235	0.05	37	28	1235	Full	0.05	khata no. changed
39	140	1236	0.43	38	140	1236	Full	0.43	
40	159	1237	0.87	39	159	1237	Full	0.87	
41	123	1238	3.05	40	123	1238	Full	3.05	
42	3	1239	0.12	41	3	1239	Full	0.12	
43	88	1240	0.13	42	88	1240	Full	0.13	
44	88	1241	0.15	43	88	1241	Full	0.15	
45	3	1242	1.82	44	3	1242	Full	1.82	
46	81	1243	3.88	45	81	1243	Part	2.83	Area Change
47	88	1244	1.97	46	88	1244	Part	1.08	Area Change
48	65	1245	0.01						Deleted
49	65	1246	0.02						Deleted
50	65	1247	0.04						Deleted
51	65	1248	0.04						Deleted

52	65	1249	2.12	47	65	1249	Part	0.11	Area Change
53	72	1250	19.72	48	3	1250	Part	4.49	Area Change/Khata no. changed
54	18	1251	0.97						Deleted
55	18	1252	0.96						Deleted
56	15	1253	0.23	49	15	1253	Part	0.12	Area Change
57	15	1254	1.47	50	15	1254	Part	0.19	Area Change
58	18	1255	0.65						Deleted
59	18	1256	0.94						Deleted
60	3	1257	0.45						Deleted
61	73	1258	0.70	51	3	1258	Part	0.37	Area Change/Khata no. changed
62	3	1259	1.55	52	3	1259	Part	0.06	Area Change
63	3/156	1260	0.45	53	3	1260	Part	0.01	Area Change/khata no. changed
64	73	1261	0.37	54	73	1261	Part	0.34	Area Change
65	73	1262	0.70	55	73	1262	Full	0.70	
66	73	1263	0.36	56	73	1263	Full	0.36	
67	73	1264	0.47	57	73	1264	Full	0.47	
68	156	1265	0.43	58	156	1265	Full	0.43	
69	73	1266	0.12	59	73	1266	Full	0.04	Area Change
70	156	1267	0.27	60	156	1267	Full	0.27	
71	156	1268	0.13	61	156	1268	Full	0.07	Area Change
72	158	1269	0.21	62	158	1269	Full	0.21	
73	157	1270	0.10	63	157	1270	Full	0.10	
74	156	1271	0.10	64	156	1271	Full	0.10	
75	68	1272	0.08	65	68	1272	Full	0.07	Area Change

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76	137	1273	0.43	66	137	1273	Full	0.43	
77	68	1274	0.06	67	38	1274	Full	0.07	Area Change/Khata no. changed
78	68	1275	0.10	68	68	1275	Full	0.10	
79	68	1276	0.07	69	68	1276	Full	0.07	
80	68	1277	0.24	70	68	1277	Full	0.24	
81	68	1278	0.07	71	68	1278	Full	0.07	
82	73	1279	0.34	72	73	1279	Full	0.34	
83	73	1280	0.61	73	73	1280	Full	0.61	
84	169	1281	0.50	74	169	1281	Full	0.50	
85	10	1282	0.22	75	10	1282	Part	0.09	Area Change
86	65	1283	0.17	76	65	1283	Full	0.17	
87	3	1284	0.28	77	3	1284	Full	0.28	
88	28	1285	0.32	78	28	1285	Full	0.32	
89	10	1286	0.11	79	10	1286	Full	0.11	
90	18	1287	0.43	80	18	1287	Full	0.43	
91	63	1288	0.26	81	63	1288	Full	0.26	
92	3	1289	0.62	82	3	1289	Full	0.62	
93	129	1290	0.22	83	129	1290	Full	0.22	
94	7	1291	0.75	84	7	1291	Full	0.75	
95	7	1292	0.45	85	7	1292	Full	0.45	
96	7	1293	0.78	86	7	1293	Full	0.78	
97	42	1294	0.37	87	42	1294	Full	0.37	
98	7	1295	0.38	88	7	1295	Full	0.38	
99	68	1296	0.11	89	68	1296	Full	0.11	
100	68	1297	0.08	90	68	1297	Full	0.08	
101	68	1298	0.84	91	68	1298	Full	0.84	
102	68	1299	0.84	92	68	1299	Full	0.84	

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103	137	1300	0.77	93	137	1300	Full	0.77	
104	137	1301	1.04	94	137	1301	Full	1.04	
105	150	1302	1.13	95	150	1302	Full	1.13	
106	129	1303	0.69	96	129	1303	Part	0.51	Area Change
107	10	1304	0.83	97	10	1304	Full	0.83	
108	7	1305	0.37	98	7	1305	Part	0.05	Area Change
109	42/14 9	1306	1.71	99	42	1306	Full	1.62	Area Change/khata no. changed
110	7	1307	1.40	100	7	1307	Part	1.31	Area Change
111	10	1308	0.10	101	10	1308	Part	0.06	Area Change
112	42	1309	0.17	102	42	1309	Part	0.11	Area Change
113	7	1310	0.66	103	7	1310	Part	0.03	Area Change
114	10	1351	0.34	114	165	1351	Full	0.34	Khata no. changed
115	150	1352	0.14	115	150	1352	Full	0.14	
116	166	1353	0.02	116	166	1353	Full	0.02	
117	166	1354	0.46	117	166	1354	Full	0.46	
118	165	1355	0.74	118	165	1355	Full	0.74	
119	165	1356	0.12	119	165	1356	Full	0.12	
120	174	1357	0.03	120	174	1357	Full	0.03	
121	165	1358	0.50	121	165	1358	Full	0.50	
122	94	1359	0.17	122	94	1359	Full	0.17	
123	129	1360	0.06	123	129	1360	Full	0.06	
124	165	1361	0.10	124	165	1361	Full	0.10	
125	94	1362	0.31	125	94	1362	Full	0.31	
126	75	1363	0.28	126	75	1363	Full	0.28	
127	75	1364	0.12	127	75	1364	Full	0.12	
128	73	1365	0.32	128	73	1365	Full	0.32	

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129	73	1366	0.57	129	73	1366	Full	0.57	
130	73	1367	0.94	130	73	1367	Full	0.94	
131	75	1368	0.62	131	75	1368	Full	0.62	
132	75	1369	0.54	132	75	1369	Full	0.54	
133	167	1370	0.04	133	167	1370	Full	0.04	
134	10	1371	0.33	134	10	1371	Full	0.33	
135	10	1372	0.13	135	10	1372	Full	0.13	
136	10	1373	0.10	136	10	1373	Full	0.10	
137	7	1374	0.49	137	10	1374	Full	0.49	Khata no. changed
138	7	1375	0.17	138	10	1375	Full	0.17	Khata no. changed
139	10	1376	0.09	139	10	1376	Full	0.09	
140	10	1377	0.61	140	10	1377	Full	0.61	
141	129	1378	2.70	141	129	1378	Full	2.70	
142	7	1379	0.06	142	7	1379	Full	0.06	
143	176	1380	0.07	143	176	1380	Full	0.07	
144	167	1381	0.43	144	167	1381	Full	0.43	
145	75	1382	0.13	145	75	1382	Full	0.13	
146	75	1383	0.12	146	75	1383	Full	0.12	
147	75	1384	0.01	147	75	1384	Full	0.01	
148	147	1385	0.46	148	147	1385	Full	0.46	
149	7	1386	0.15	149	7	1386	Full	0.15	
150	149	1387	1.05	150	149	1387	Full	1.05	
151	149	1388	0.32	151	149	1388	Full	0.32	
152	7	1389	0.11	152	7	1389	Full	0.11	
153	149	1390	0.42	153	149	1390	Full	0.42	
154	172	1656	1.04	157	73	1656	Part	0.78	Khata no. changed
155	73	1658	0.88	158	73	1658	Part	0.88	Area Change

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156	55	1659	0.39	159	55	1659	Full	0.39	
157	73	1660	0.56	160	73	1660	Full	0.56	
158	73	1661	2.18	161	73	1661	Full	2.18	
159	73	1662	0.13	162	73	1662	Full	0.74	Area Change
160	86	1663	1.71	163	86	1663	Full	1.71	
161	86	1664	0.27	164	86	1664	Full	0.27	
162	10	1665	0.18	165	8	1665	Full	0.18	Khata no. changed
163	10	1666	0.07	166	8	1666	Full	0.07	Khata no. changed
164	10	1667	0.33	167	8	1667	Full	0.33	Khata no. changed
165	10	1668	0.23	168	8	1668	Full	0.23	Khata no. changed
166	72	1669	0.17	169	72	1669	Full	0.17	
167	72	1670	0.69	170	72	1670	Full	0.69	
168	72	1671	0.52	171	72	1671	Full	0.52	
169	72	1672	2.01	172	72	1672	Full	2.01	
170	23	1673	0.25	173	23	1673	Full	0.25	
171	129	1674	0.62	174	129	1674	Full	0.62	
172	167	1675	0.25	175	167	1675	Full	0.25	
173	75	1676	0.10	176	75	1676	Full	0.10	
174	165	1677	0.44	177	165	1677	Full	0.44	
175	171	1678	0.57	178	171	1678	Full	0.57	
176	10	1679	0.53	179	10	1679	Full	0.53	
177	168	1680	0.63	180	168	1680	Full	0.63	
178	54	1681	0.41	181	54	1681	Part	0.46	Area Change
179	10	1682	0.70	182	8	1682	Part	0.27	Area Change/ khata no. changed
180	10	1683	0.51	183	10	1683	Part	0.38	Area Change

181	86	1684	1.51						Deleted
182	86	1685	0.11						Deleted
183	10	1686	0.15						Deleted
184	54	1687	0.15						Deleted
185	86	1688	0.31						Deleted
186	86	1689	0.02						Deleted
187	56	1690	0.07	184	56	1690	Part	0.03	Area Change
188	72	1691	0.08	185	72	1691	Full	0.08	
189	72	1692	0.28	186	72	1692	Part	0.25	Area Change
190	23	1693	0.84	187	23	1693	Full	0.84	
191		1694	0.02	188	130	1694	Full	0.02	Khata no. changed
192	108	1695	0.44	189	108	1695	Full	0.44	
193	108	1696	0.24	190	108	1696	Full	0.24	
194	108	1697	0.01	191	108	1697	Full	0.01	
195	54	1698	0.10	192	54	1698	Full	0.10	
196	54	1699	0.10	193	54	1699	Full	0.10	
197	72	1700	0.14	194	72	1700	Full	0.34	Area Change
198	3	1701	1.05	195	3	1701	Full	2.37	Area Change
199	129	1702	0.06	196	129	1702	Full	0.06	
200	73	1703	1.04	197	73	1703	Full	1.04	
201	58	1704	1.44	198	58	1704	Part	1.40	Area Change
202	130	1705	0.20	199	130	1705	Part	0.20	
203	54	1706	0.03						Deleted
204	54	1707	0.02						Deleted
205	86	1708	0.50	200	130	1708	Part	0.01	Area Change/khata no. changed
206	54	1709	0.78						Deleted

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207	23	1710	1.00						Deleted
208	130	1711	0.29						Deleted
209	3	1712	1.14						Deleted
210	7	1713	2.63	201	7	1713	Part	2.88	Area Change
211	72	1714	0.71	202	72	1714	Full	0.71	
212	54	1715	0.23	203	54	1715	Full	0.23	
213	54	1716	0.23	204	54	1716	Full	0.23	
214	54	1717	0.30	205	54	1717	Full	0.30	
215	54	1718	0.24	206	54	1718	Full	0.24	
216	73	1719	0.30	207	73	1719	Full	0.30	
217	3	175	3.10	1	3	175	Part	4.60	Area Change
218	103	176	0.73	3	103	176	Part	0.56	Area Change
219	73	177	0.29						Deleted
				2	58	174	Part	0.27	Plot Added
				104	10	1312	Part	0.02	Plot Added
				105	167	1340	Part	0.02	Plot Added
				106	165	1341	Full	0.03	Plot Added
				107	166	1342	Part	0.16	Plot Added
				108	75	1343	Full	0.18	Plot Added
				109	94	1344	Full	0.19	Plot Added
				110	75	1345	Part	0.29	Plot Added
				111	128	1348	Part	0.11	Plot Added
				112	30	1349	Part	0.20	Plot Added
				113	68	1350	Part	0.50	Plot Added
				154	83	1397	Part	0.09	Plot Added
				155	129	1654	Part	1.31	Plot Added
				156	108	1655	Part	0.33	Plot Added
				208	108	1729	Full	0.12	Plot Added

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				209	38	1723/1 303	Full	0.10	Plot Added
				Total				100.92	

VILLAGE-KACHNARTOLI, THANA- 246									
As per EC & Deed of Conveyance				As per Rectified Deed					
S.No. Deed of Conv.	Khata No.	Plot No.	Area As per Deed of Conv. (Acres)	S.No.	Khata No.	Plot No.	Allotment Type	Area As per Reg. Deed (Acres)	Rectification Details
1	2	13	0.79	13	2	13	Full	0.79	S No. Change
2	64	14	0.26	14	64	14	Full	0.52	Area Change
3	64	14	0.26						Deleted
4	64	15	0.23	15	64	15	Full	0.47	Area Change
5	64	15	0.24						Deleted
6	69	16	1.78	16	69	16	Full	1.78	
7	69	17	0.39	17	69	17	Full	0.39	
8	78	18	0.34	18	78	18	Full	0.34	
9	78	19	0.27	19	78	19	Full	0.32	
10	78	19	0.05						Deleted
11	78	20	0.21	20	78	20	Full	0.43	Area Change
12	78	20	0.23						Deleted
13	78	20	0.22						Deleted
14	78	21	0.23	21	78	21	Full	0.46	Area Change
15	78	30	0.19	30	64	30	Full	0.56	Khata No. & Area Change
16	78	30	0.27						Deleted
17	78	31	0.11	31	64	31	Full	0.11	
18	78	32	0.10	32	64	32	Full	0.18	Area Change
19	78	32	0.08						Deleted

20	64	33	1.04	33	64	33	Full	1.04	
21	64	34	0.08	34	65	34	Full	0.08	Khata No. Change
22	64	35	0.73	35	69	35	Full	0.73	Khata No. Change
23	23	36	0.14	36	83	36	Full	0.92	khata no. 23 changed to 83 Area Change
24	83	36	0.09						Deleted
25		36	0.27						Deleted
26		36	0.11						Deleted
27		36	0.09						Deleted
28		36	0.12						Deleted
29		37	0.38	37	78	37	Full	0.76	Khata No. Change
30		37	0.38						Deleted
31		38	0.12	38	78	38	Full	0.12	Khata No. Change
32		39	0.68	39	78	39	Full	0.68	Khata No. Change
33		40	0.79	40	69	40	Full	0.79	Khata No. Change
34		41	0.19	41	69	41	Full	0.19	Khata No. Change
35	83	42	0.44	42	83	42	Full	0.44	Khata No. Change
36		42	0.07						Deleted
37	20	43	0.11	43	20	43	Full	0.11	
38		44	0.29						Deleted
39	76	44	0.29	44	78	44	Full	0.58	khata no. 76 changed to 78
40		45	0.48	45	78	45	Full	0.95	Area Change

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41		45	0.47						Deleted
42	55	46	0.59	46	55	46	Full	0.59	
43		47	0.03	47	55	47	Full	0.03	
44		49	0.06	49	64	49	Full	0.06	
45		50	0.08	50	64	50	Full	0.08	
46		51	0.08	51	64	51	Full	0.08	
47	22	52	0.23	52	22	52	Full	0.23	
48		53	0.15	53	22	53	Full	0.15	
49		54	0.57	54	56	54	Full	0.57	Khata No. Change
50	7	55	0.45	55	7	55	Full	0.45	
51	20	56	0.18	56	20	56	Full	0.36	
52		56	0.18						Deleted
53		57	0.48	57	37	57	Full	0.82	Area Change
54	37	57	0.34						Deleted
55	5	58	0.21	58	5	58	Full	0.21	
56		59	0.02	59	5	59	Full	0.02	
57		60	0.14	60	55	60	Full	0.14	Khata No. Change
58		61	0.13	61	5	61	Full	0.13	
59		62	0.72	62	55	62	Full	0.72	Khata No. Change
60		63	0.80	63	55	63	Full	0.80	Khata No. Change
61	55	64	0.35	64	55	64	Full	0.35	
62	84	65	0.51	65	84	65	Full	0.62	
63		65	0.11						Deleted
64		66	0.08	66	55	66	Full	0.08	Khata No. Change
65		67	0.16	67	5	67	Full	0.16	Khata No. Change

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66	5	68	0.02	68	5	68	Full	0.02	
67	55	69	0.01	69	55	69	Full	0.01	
68		70	0.13	70	55	70	Full	0.13	
69		71	0.03	71	7	71	Full	0.03	Khata No. Change
70	55	72	0.09	72	55	72	Full	0.09	
71	22	73	0.11	73	22	73	Full	0.11	
72		74	0.02	74	7	74	Full	0.02	Khata No. Change
73		75	0.28	75	7	75	Full	0.28	Khata No. Change
74	7	76	0.01	76	7	76	Full	0.01	
75		77	0.51	77	7	77	Full	0.51	
76		78	0.22	78	22	78	Full	0.22	Khata No. Change
77		79	0.28	79	7	79	Full	0.28	
78	60	80	0.42	80	60	80	Full	0.42	
79		82	0.09	82	7	82	Full	0.09	Khata No. Change
80		83	0.34	83	7	83	Full	0.34	Khata No. Change
81	47	84	0.42	84	47	84	Full	0.42	
82		86	0.11	86	20	86	Full	0.11	Khata No. Change
83		87	1.20	87	20	87	Full	1.20	Khata No. Change
84		88	0.12	88	20	88	Full	0.12	Khata No. Change
85		89	0.08	89	20	89	Full	0.08	Khata No. Change
86		90	0.54	90	20	90	Full	0.54	Khata No. Change
87		91	0.46	91	5	91	Full	0.46	Khata No. Change

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88		92	0.76	92	37	92	Full	0.76	Khata No. Change
89		93	0.51	93	18	93	Full	0.51	Khata No. Change
90		94	0.63	94	55	94	Full	0.13	Excess area allotted
91		95	1.12	95	55	95	Full	1.12	Khata No. Change
92	61	96	0.81	96	61	96	Full	0.81	
93		97	0.73	97	22	97	Full	0.73	Khata No. Change
94		98	0.15	98	84	98	Full	0.15	Khata No. Change
95	67	99	0.24	99	67	99	Full	0.24	
96		100	1.12	100	55	100	Full	1.12	Khata No. Change
97	33	101	0.44	101	33	101	Full	0.44	
98		102	0.08	102	33	102	Full	0.08	
99		103	0.05	103	55	103	Full	0.05	Khata No. Change
100		104	0.38	104	55	104	Full	0.76	Khata No. Change, Area Change
101		104	0.38						Deleted
102	17	105	1.41	105	17	105	Full	1.33	Area Change
103		106	1.05	106	60	106	Part	1.05	Khata No. Change
104		107	1.13	107	47	107	Full	1.13	Khata No. Change
105	77	108	0.78	108	77	108	Full	0.78	
106	54	109	0.62	109	54	109	Full	0.62	
107	25	110	0.54	110	25	110	Full	0.54	

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108		11	1.15	111	37	111	Full	1.15	Plot no. 11 changed to 111, Khata N Change
109		112	0.68	112	55	112	Full	0.68	Khata No. Change
110		113	0.90	113	18	113	Full	0.90	Khata No. Change
111		114	0.38	114	56	114	Full	0.38	Khata No. Change
112		115	0.43	115	55	115	Full	0.43	Khata No. Change
113		116	0.39	116	83	116	Full	0.39	Khata No. Change
114		117	0.25	117	83	117	Full	0.37	Khata No. Change, Are Change
115	83	117	0.04						Deleted
116		117	0.08						Deleted
117	56	119	1.88	119	56	119	Full	1.88	
118	57	120	0.09	120	57	120	Full	0.09	
119		121	0.72	121	56	121	Full	0.72	Khata No. Change
120		122	0.07	122	18	122	Full	0.07	Khata No. Change
121	83	122	0.21						Deleted
122	55	123	0.04	123	55	123	Full	0.04	
123		124	0.02	124	37	124	Full	0.02	Khata No. Change
124		124	1.17						Deleted
125		125	0.10	125	55	125	Full	0.10	
126		126	0.21	126	55	126	Full	0.21	
127		127	0.37	127	55	127	Full	0.36	Area Chang


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128	40	128	0.28	128	40	128	Part	0.13	Area Change
129		129	0.12	129	40	129	Part	0.28	Area Change
130		131	0.05						Deleted
131	29	133	0.72	132	29	133	Part	0.53	Area Change
132	55	134	0.65	133	55	134	Part	0.65	
133		135	0.15	134	55	135	Full	0.15	
134		136	0.30	135	18	136	Full	0.30	Khata No. Change
135	11	137	0.10	136	11	137	Full	0.10	
136		138	1.38	137	11	138	Full	1.38	
137		139	1.76	138	11	139	Full	3.74	Area Change
138		139	0.50						Deleted
139		140	0.60	139	83	140	Full	0.86	Khata No. Change, Area Change
140		141	0.03	140	55	141	Part	0.03	Khata No. Change
141		142	0.02	141	20	142	Full	0.02	Khata No. Change
142		143	0.17	142	20	143	Full	0.13	Khata No. Change, Area Change
143		144	0.16	143	20	144	Part	0.04	Khata No. Change, Area Change
144		144	0.10						Deleted
145	21	147	0.15	146	21	147	Full	0.31	Area Change
146	46	148	0.04	147	46	148	Full	0.04	
147		149	0.02						Deleted
148		149	1.95	148	46	149	Full	2.07	Area Change
149		150	0.03	149	46	150	Full	0.03	

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150	83	151	0.33						Deleted
151	83	151	0.12						Deleted
152	83	151	0.09						Deleted
153	83	151	0.07	150	83	151	Full	0.61	Area Change
154	83	153	2.78	152	83	153	Full	3.59	Area Change
155	83	153	0.18						Deleted
156	83	153	0.48						Deleted
157	83	155	0.01						Deleted
158	83	155	0.07						Deleted
159	83	155	0.10	154	83	155	Part	0.18	Area Change
160	78	156	0.05	155	78	156	Full	0.05	
161	78	157	0.02	156	78	157	Full	0.02	
162	78	158	0.02	157	78	158	Full	0.02	
163	78	159	0.31	158	78	159	Full	0.31	
164	78	160	0.17	159	80	160	Full	0.92	
165	80	160	0.75						Deleted
166	80	161	0.04	160	20	161	Full	0.04	
167	24	162	0.51	161	24	162	Full	0.85	
168	24	162	0.34						Deleted
169	78	163	0.15	162	78	163	Full	0.15	
170		164	0.12						Deleted
171		164	0.04						Deleted
172	83	164	0.16	163	83	164	Full	0.32	Area Change
173	9	165	0.01	164	9	165	Full	0.01	
174	9	166	0.05	165	9	166	Full	0.09	Area Change
175	9	166	0.04						Deleted
176	9	167	0.05	166	83	167	Full	0.05	
177	83	168	0.10	167	83	168	Full	0.10	

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178	10	169	0.09	168	10	169	Full	0.15	Area Change
179	10	169	0.06						Deleted
180	65	170	0.06						Deleted
181	65	170	0.10						Deleted
182	65	170	0.21	169	65	170	Full	0.37	Area Change
183	65	171	0.12	170	65	171	Full	0.12	
184	65	172	0.13	171	69	172	Full	0.13	
185	36	173	0.59	172	36	173	Full	0.59	
186	83	174	0.06	173	83	174	Full	1.19	Area Change
187	83	174	0.25						Deleted
188	83	174	0.06						Deleted
189	89	174	0.09						Deleted
190	83	174	0.46						Deleted
191	83	174	0.05						Deleted
192	83	175	0.30	174	36	175	Full	0.30	
193	21	176	0.01	175	21	176	Full	0.01	
194	21	176	0.06						Deleted
195	21	177	1.82	176	21	177	Full	1.82	
196	21	178	0.03	177	21	178	Full	0.03	
197	21	180	0.80	179	15	180	Full	0.80	
198	21	180	0.07						Deleted
199	21	181	0.14	180	78	181	Full	0.14	
200	21	182	0.22	181	21	182	Full	0.22	
201	21	183	0.02	182	83	183	Full	0.02	
202	83	184	0.07	183	83	184	Full	0.07	
203	83	184	0.24						Deleted
204	83	185	0.65	184	2	185	Full	0.65	
205	75	186	0.38	185	75	186	Full	0.38	

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206	64	187	0.50	186	64	187	Full	0.50	
207	83	188	0.05	187	83	188	Full	0.05	
208	83	189	0.05	188	83	189	Full	0.05	
209	83	190	0.05	189	83	190	Full	0.05	
210	83	191	0.28	190	64	191	Full	0.28	
211	83	192	0.09	191	83	192	Full	0.13	Area Change
212	83	192	0.04						Deleted
213	78	193	0.31	192	78	193	Full	0.31	
214	78	195	0.22	194	78	195	Full	0.22	
215	64	196	0.59	195	64	196	Full	0.59	
216	64	198	0.40	197	32	198	Full	0.81	Area Change
217	64	198	0.45						Deleted
218	64	199	0.37	198	78	199	Full	0.37	
219	64	204	1.26	203	22	204	Full	1.41	Khata No. Change, Area Change
220	64	206	0.13	205	78	206	Part	0.13	
221	64	207	0.48	206	64	207	Full	0.47	Area Change
222	78	208	0.26	207	78	208	Part	0.26	
223	78	209	0.23	208	15	209	Full	0.04	Area Change
224	78	210	0.46	209	78	210	Part	0.73	Area Change
225	78	211	0.75	210	78	211	Part	0.71	Area Change
226	78	212	0.22	211	69	212	Part	0.38	Khata No. Change, Area Change
227	78	213	0.26	212	78	213	Part	0.19	Area Change
228	78	215	0.48	214	56	215	Part	0.13	Khata No. Change, Area Change
229	78	217	0.55	216	69	217	Part	0.55	khata no

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									change
230	79	218	0.27	217	79	218	Full	0.27	
231	79	219	0.02	218	15	219	Full	0.02	khata no change
232	79	220	0.34	219	79	220	Full	0.34	
233	79	221	0.23	220	79	221	Full	0.23	
234	79	222	0.24	221	79	222	Full	0.24	
235	79	223	0.06	222	79	223	Full	0.06	
236	79	224	0.21	223	5	224	Full	0.21	
237	79	225	0.05	224	5	225	Full	0.05	
238	79	225	0.80						Deleted
239	79	226	0.06	225	5	226	Full	0.06	khata no change
240	79	227	0.50	226	5	227	Full	0.69	Khata No. Change, Area Change
241	6	228	0.23	227	6	228	Part	0.33	Area Change
242	6	229	0.07	228	83	229	Full	0.01	Khata No. Change, Area Change
243	6	230	0.27	229	6	230	Part	0.17	Area Change
244	38	230	0.06						Deleted
245	38	231	0.06	230	5	231	Part	0.06	khata no change
246	83	232	0.29	231	83	232	Full	0.29	
247	83	232	0.07						Deleted
248	83	233	0.07	232	83	233	Part	0.07	
249	83	233	0.10						Deleted
250	12	234	0.16	233	12	234	Part	0.17	Area Change
251	12	235	0.07	234	20	235	Part	0.68	Khata No. Change, Area

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									Change
252	12	236	0.38	235	7	236	Part	0.38	khata no change
253	69	237	0.07	236	69	237	Full	0.07	
254	69	238	0.01	237	69	238	Full	0.17	Area Change
255	69	241	0.28	240	20	241	Part	0.58	Khata No. Change, Area Change
256	83	242	0.41	241	20	242	Full	0.43	Khata No. Change, Area Change
257	83	243	1.48	242	7	243	Full	1.48	Khata no. 46, changed to 5
258	46	243	0.69						Deleted
259	46	244	0.03	243	7	244	Full	0.03	khata no change
260	46	245	0.47	244	7	245	Full	0.47	khata no change
261	78	246	0.15	245	78	246	Full	0.15	
262	78	247	1.04	246	56	247	Full	1.04	khata no change
263	8	248	0.17	247	8	248	Full	0.17	
264	8	249	0.10	248	7	249	Full	0.39	khata no change
265	8	249	0.29						
266	8	250	0.07						Deleted
267	8	250	0.22						Deleted
268	83	250	0.29	249	83	250	Full	0.77	area Change
269	83	251	0.02	250	8	251	Full	0.02	khata no change
270	83	252	0.05	251	8	252	Full	0.05	khata no change

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271	83	253	0.30	252	8	253	Full	0.30	khata no change
272	39	254	0.27	253	39	254	Full	0.27	
273	51	256	1.87	255	51	256	Full	1.75	Area Change
274	52	257	0.45	256	52	257	Part	0.45	
275	52	258	0.17	257	52	258	Full	0.17	
276	52	259	0.01	258	52	259	Full	0.03	Area Change
277	52	259	0.01						Deleted
278	83	262	0.12	260	83	262	Part	0.09	Area Change
279	83	262	0.12						Deleted
280	25	263	0.28	261	25	263	Part	0.14	Area Change
281	30	264	0.22	262	30	264	Part	0.21	Area Change
282	71	265	0.40	263	71	265	Part	0.79	Area Change
283	71	265	0.39						Deleted
284	7	266	0.82	264	21	266	Full	0.83	Khata No. Change, Area Change
285	74	267	0.85	265	74	267	Full	0.85	
286	74	268	0.89	266	78	268	Full	0.89	khata no change
287	20	269	0.53	267	20	269	Full	0.53	
288	20	270	0.02	268	83	270	Full	0.05	Khata No. Change, Area Change
289	20	272	0.20	270	5	272	Full	0.64	Khata No. Change, Area Change
290	13	273	0.16	271	13	273	Full	0.83	Area Change
291	13	274	0.20	272	78	274	Full	0.11	Khata No. Change, Area Change

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292	13	275	0.16	273	78	275	Part	0.31	Khata No. Change, Area Change
293	13	276	0.04	274	13	276	Part	0.64	Area Change
294	13	277	0.55	275	78	277	Full	0.56	Khata No. Change, Area Change
295	13	278	0.66	276	78	278	Full	0.66	khata no change
296	13	279	0.25	277	21	279	Full	0.25	khata no change
297	41	280	0.82	278	41	280	Full	0.82	
298	23	281	0.52	279	23	281	Full	0.78	Area Change
299	23	282	0.04	280	64	282	Full	1.00	Khata No. Change, Area Change
300	69	283	0.93	281	69	283	Part	0.82	area Change
301	69	284	0.75	282	78	284	Part	0.63	Khata No. Change, Area Change
302	4	285	0.54	283	4	285	Part	0.44	area Change
303	4	286	0.60	284	78	286	Part	0.62	Khata No. Change, Area Change
304	4	288	0.34	286	35	288	Part	0.64	Khata No. Change, Area Change
305	4	289	0.24	287	42	289	Part	0.48	Khata No. Change, Area Change
306	23	290	0.60	288	2	290	Part	0.43	Khata No. Change, Area Change

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307	23	291	0.28	289	23	291	Part	0.20	area Change
308	23	292	0.42	290	35	292	Part	0.29	area Change
309	23	293	0.34	291	23	293	Part	0.28	area Change
310	23	294	0.48	292	23	294	Part	0.28	area Change
311	23	295	0.30	293	2	295	Part	0.29	Khata No. Change, Area Change
312	23	323	1.04	294	15	323	Part	0.76	Khata No. Change, Area Change
313	23	324	0.04	295	78	324	Part	0.07	Khata No. Change, Area Change
314	23	325	0.34	296	78	325	Part	0.34	khata no change
315	23	326	0.44	297	78	326	Full	0.44	khata no change
316	23	327	0.70	298	78	327	Part	0.70	khata no change
317	23	328	0.25	299	9	328	Part	0.28	Khata No. Change, Area Change
318	2	329	0.10	300	2	329	Part	0.14	Area Change
319	2	329	0.08						deleted
320	2	330	0.08	301	9	330	Part	0.08	khata no change
321	2	331	0.08	302	2	331	Full	0.08	
322	2	332	0.46	303	64	332	Full	0.49	Khata No. Change, Area Change
323	2	333	0.99	304	7	333	Part	0.51	Khata No. Change, Area Change

324	73	335	0.38	305	73	335	Part	0.40	Area Change
325	73	336	0.25	306	73	336	Part	0.27	Area Change
326	73	337	0.40	307	38	337	Part	0.47	Khata No. Change, Area Change
327	73	340	0.32	309	38	340	Part	0.39	Khata No. Change, Area Change
328	44	341	0.32	310	44	341	Part	0.42	Area Change
329	44	342	0.28	311	2	342	Part	0.39	Khata No. Change, Area Change
330	32	344	0.12	313	32	344	Part	0.18	Area Change
331	32	345	0.40	314	46	345	Part	0.40	khata no change
332	47	346	1.40	315	47	346	Full	1.40	
333	30	347	1.62	316	30	347	Part	0.87	Area Change
334	30	348	0.05	317	44	348	Part	0.07	Khata No. Change, Area Change
335	14	349	0.11	318	14	349	Part	0.11	
336	3	351	0.08	319	3	351	Part	0.13	Area Change
337	3	442	0.10	320	30	442	Part	0.01	Khata No. Change, Area Change
338	26	446	0.01						Removed a plot is outside AB area
339	26	516	0.49						Deleted
340	26	522	0.28						Deleted
341	26	585	0.45						Deleted

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342	26	138/51 3	0.40	322	83	138/5 1 3	Full	0.40	khata no change
343	26	138/51 4	0.12	323	83	138/5 1 4	Full	0.12	khata no change
344	26	140/51 5	0.35	324	83	140/5 1 5	Part	0.23	khata no change
345	32	200	0.75	199	32	200	Full	0.79	area Change
346	9	201	1.41	200	9	201	Full	1.24	Area Change
347	78	202	1.12	201	78	202	Part	0.87	Area Change
348	78	203	0.01	202	78	203	Part	0.01	
349	32	204	1.68						Deleted
350	81	205	0.63	204	64	205	Part	0.18	khata no. change, area change
351	78	206	0.13						deleted
352	78	210	1.10						deleted
353	69	212	0.60						deleted
354	23	282P	1.04						deleted
355	87	275P	0.54						deleted
356	13	276P	0.64						deleted
357	78	274	0.47						deleted
358	13	273P	0.83						deleted
359	5	272P	0.64						deleted
360	5	227	1.10						deleted
361	83	270P	0.05						deleted
362	83	271	0.04						deleted
363	20	241P	0.58						deleted
364	83	242P	0.43						deleted

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365	69	238P	0.17						deleted
366	69	239P	0.18						deleted
367	5	231P	0.06						deleted
368	83	232	0.07						deleted
369	83	233	0.07						deleted
370	12	234	0.28						deleted
371	20	235	0.77						deleted
372	83	153	3.78						deleted
373	55	1270	0.37						deleted
374	40	128	0.33						deleted
375	40	129	0.45						deleted
376	40	130	0.10						deleted
377	40	131	0.10						deleted
378	40	132	0.10						deleted
379	29	133	0.73						deleted
380	20	143	0.17						deleted
381	20	144	0.30						deleted
382	20	145	0.26						deleted
383	11	140	1.09						deleted
384	11	517/14 0	0.39	328	83	517/5 2 2	Part	0.60	khata no. change, area change plot n change
385	11	522/14 0	0.65						deleted
386	76	1	1.02	1	76	1	Part	0.80	Area Change
387	23	2P	0.90	2	23	2	Part	0.78	Area Change
388	78	3	0.56	3	78	3	Full	0.56	
389	78	4	0.52	4	78	4	Full	0.52	

390	15	5	0.45	5	15	5	Full	0.45	
391	56	6	0.58	6	56	6	Full	0.58	
392	15	7	0.51	7	15	7	Full	0.51	
393	78	8	0.93	8	78	8	Full	0.93	
394	60	9P	0.57	9	60	9	Part	0.51	Area Change
395	18	10P	0.65	10	18	10	Part	0.57	Area Change
396	69	11P	0.93	11	69	11	Part	0.92	Area Change
397	35	12P	0.67	12	35	12	Full	0.67	
398	7	22	0.62	22	35	22	Full	0.62	khata no. 7 changed to 35
399	23	23	0.56	23	23	23	Full	0.56	
400	37	24	0.21	24	37	24	Full	0.21	
401	37	25	0.43	25	37	25	Full	0.43	
402	66	26	0.42	26	66	26	Full	0.42	
403	66	27	0.49	27	66	27	Full	0.49	
404	66	28	0.29	28	64	28	Full	0.29	khata no. 66 changed to 64
405	66	29	0.78	29	64	29	Full	0.78	
406	66	287	2.70	285	76	287	Part	1.29	Area Change, khata no. change
				48	64	48	Full	0.07	Plot added
				81	55	81	Full	0.71	Plot added
				85	55	85	Full	0.45	Plot added
				118	84	118	Full	0.07	Plot added
				130	38	130	Part	0.03	Plot added
				131	40	132	Part	0.07	Plot added
				144	20	145	Part	0.16	Plot added

				145	20	146	Part	0.36	Plot added
				151	83	152	Full	0.21	Plot added
				153	83	154	Part	1.14	Plot added
				178	21	179	Full	0.06	Plot added
				193	78	194	Full	0.24	Plot added
				196	83	197	Full	0.59	Plot added
				213	81	214	Part	0.29	Plot added
				215	81	216	Part	0.43	Plot added
				238	69	239	Full	0.05	Plot added
				239	83	240	Full	0.04	Plot added
				254	39	255	Full	0.80	Plot added
				259	50	261	Part	0.02	Plot added
				269	83	271	Full	0.04	Plot added
				308	53	338	Part	0.46	Plot added
				312	44	343	Part	0.32	Plot added
				321	83	468	Part	0.21	Plot added
				326	49	149//5	Full	0.54	Plot added
				329	83	260/5 2	Part	0.07	Plot added
Total A								143.13	
1	140	149/51 6	0.36	325	83	149/5 1 6	Full	0.36	Khata no. 14 changed to 8
2	140	149/51 8	0.69	327	83	149/5 1 8	Full	0.69	Khata no. 14 changed to 8
3	140	36/525	0.14	330	10	36/52 5	Full	0.14	
Total B								1.19	
Total A+B						Total		144.32	

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Village-KALYANPUR, Thana No.-245

As per EC & Deed of Conveyance				As per Rectified Deed					
S.No. Deed of Conv.	Khata No.	Plot No.	Area As per Deed of Conv. (Acres)	S.No.	Khata No.	Plot No.	Allotment Type	Area As per Reg. Deed (Acres)	Rectification Details
				1	32	109	Part	0.32	Plot Added
				2	19	113	Part	0.06	Plot Added
				3	63	123	Part	0.05	Plot Added
				4	15	127	Part	0.09	Plot Added
1	1	149	1.97	5	1	149	Full	1.97	
2	1	150	1.68	6	1	150	Full	1.68	
3	1	151	0.77	7	1	151	Full	0.77	
4	10	152	0.94	8	10	152	Full	0.94	
5	38	153	2.39	9	38	153	Full	2.88	Area Change
6	47	154	0.36	10	47	154	Full	0.36	
7		155	0.47	11	47	155	Full	0.47	
9	92	156	0.37	12	92	156	Full	0.37	
10	92	157	0.66	13	92	157	Full	0.66	
11	92	158	1.03	14	92	158	Full	1.03	
12	92	159	0.20	15	92	159	Full	0.20	
				16	38	160	Full	1.32	Plot Added
14	94	161	1.11	17	94	161	Full	1.11	
15	91	162	1.07	18	91	162	Full	1.07	
16	92	163	0.11	19	92	163	Full	0.11	
17	91	164	0.02	20	91	164	Full	0.02	
18	91	165	0.03	21	91	165	Full	0.03	
19	91	166	0.09	22	91	166	Full	0.09	
20	57	167	0.37	23	57	167	Full	0.37	

21		168	0.06	24	57	168	Full	0.03	Area Change
22	92	169	0.50	25	92	169	Full	0.50	
23	92	170	1.00	26	92	170	Full	1.00	
24	92	171	0.25	27	92	171	Full	0.25	
25	92	172	0.41	28	92	172	Full	0.41	
26	91	173	0.97	29	91	173	Full	0.97	
27	92	174	1.66	30	92	174	Full	1.66	
28	92	175	0.03	31	92	175	Full	0.03	
29	91	176	1.34	32	91	176	Full	1.34	
30	91	177	0.01	33	91	177	Full	0.01	
31	91	178	1.11	34	91	178	Full	1.11	
32	57	179	0.08	35	57	179	Full	0.08	
33	57	180	0.38	36	57	180	Full	0.38	
34	57	181	0.03	37	57	181	Full	0.03	
35	1	182	0.52	38	1	182	Full	0.52	
36		183	0.04	39	1	183	Full	0.04	
37	1	184	0.43	40	1	184	Full	0.43	
38	1	185	1.08	41	1	185	Full	1.08	
39	32	186	0.04	42	32	186	Full	0.04	
				43	45	187	Full	0.11	Plot Added
41	2	188	0.47	44	48	188	Full	0.47	khata no. changed to 48 from 2
42	1	189	0.37	45	1	189	Full	0.37	
43	36	190	0.03	46	36	190	Full	0.03	
44	26	191	0.53	47	26	191	Full	0.53	
45	9	192	0.68	48	9	192	Full	0.68	
46	45	193	0.51	49	45	193	Full	0.51	
47	36	194	0.94	50	36	194	Full	0.94	

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48	26	195	0.06	51	26	195	Full	0.06	
49		196	0.41	52	26	196	Full	0.41	
50		197	0.25	53	26	197	Full	0.20	Area Change
51		198	0.23	54	26	198	Full	0.23	
52		199	0.03	55	26	199	Full	0.03	
53	26	200	0.05	56	26	200	Full	0.05	
54	24	201	0.61	57	24	201	Full	0.60	Area Change
55	60	202	0.17	58	25	202	Full	0.17	khata no. changed to 25 from 60
56	97	203	1.06	59	97	203	Full	1.06	
57	39	204	1.13	60	39	204	Full	1.13	
58	119	205	0.08	61	119	205	Full	0.08	
59	118	206	1.62	62	118	206	Full	1.62	
60	121	207	1.38	63	121	207	Full	1.38	
61	120	208	1.21	64	120	208	Full	1.21	
62	1	209	0.32	65	1	209	Full	0.32	
63	1	210	0.10	66	1	210	Full	0.10	
64	1	211	0.09	67	1	211	Full	0.09	
65		212	0.18	68	1	212	Full	0.18	
66	105	213	0.12	69	105	213	Full	0.12	
67		214	0.14	70	105	214	Full	0.14	
68		215	0.10	71	105	215	Full	0.10	
69	111	216	0.42	72	111	216	Full	0.42	
70	111	217	0.54	73	111	217	Full	0.54	
71	11	218	0.45	74	11	218	Full	0.45	
72	95	219	1.67	75	95	219	Full	1.67	
73	3	220	0.96	76	3	220	Full	0.96	
				77	8	232	Full	0.78	Plot Added

43	100	236	0.44	78	100	236	Part	0.44	
75	3	240	0.24	79	3	240	Full	0.24	
76		241	0.61	80	3	241	Full	0.61	
77		242	0.12	81	3	242	Full	0.12	
78		243	0.32	82	3	243	Full	0.32	
79	60	244	0.22	83	60	244	Full	0.22	
80	32/60	245	2.99	84	60	245	Part	1.74	Khata no./Area Change
81	102	246	0.06	85	102	246	Full	0.06	
82	96	247	0.89	86	96	247	Full	0.89	
83	101	248	0.06	87	101	248	Full	0.06	
84	103	249	0.18	88	103	249	Full	0.18	
85	66	250	1.07	89	66	250	Full	1.07	
86		251	0.18	90	66	251	Full	0.18	
87	67	252	0.33	91	67	252	Full	0.33	
88		253	0.48	92	67	253	Full	0.48	
89	32	254	0.23	93	32	254	Full	0.23	
90	100	255	1.26	94	100	255	Full	1.26	
91		256	0.08	95	100	256	Full	0.08	
92	53	257	0.06	96	53	257	Full	0.06	
93	60	258	2.09	97	60	258	Full	2.09	
94	48	259	0.07	98	48	259	Full	0.07	
73	48	260	0.43	99	37	260	Part	0.43	
96	48	261	0.17	100	48	261	Full	0.24	Area Change
97	48	262	0.19	101	48	262	Full	0.19	
98		263	0.37	102	48	263	Full	0.31	Area Change
99	60	264	0.62	103	60	264	Full	0.62	
100	25	265	0.34	104	25	265	Full	0.34	

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101	25	266	0.02	105	25	266	Full	0.02	
102	90	267	1.04	106	90	267	Full	1.04	
103	48	268	0.71	107	48	268	Full	0.71	
104	48	269	0.61	108	48	269	Full	0.61	
105		270	0.17	109	87	270	Part	0.17	
106		271	0.01	110	25	271	Full	0.01	
107		272	0.86	111	25	272	Full	0.86	
108		273	1.13	112	25	273	Full	1.58	khata no. changed/Area Change
109	25	274	3.61	113	25	274	Part	3.41	Area Change
110		275	0.01	114	25	275	Full	0.01	
111	25	276	0.27	115	25	276	Part	0.17	Area Change
112	87	277	1.51	116	87	277	Part	1.40	Area Change
113		278	0.47	117	62	278	Full	0.47	
114	64	279	0.42	118	64	279	Full	0.42	
115	90	280	0.90	119	90	280	Full	0.90	
116	75	281	0.33	120	75	281	Part	0.18	Area Change
117	75	282	0.33	121	75	282	Part	0.14	
118	112	283	0.72	122	112	283	Part	0.62	Area Change
119	83	284	1.18	123	83	284	Part	0.71	Area Change
				124	110	286	Part	0.11	Plot Added
				125	107	287	Part	0.62	Plot Added
				126	11	293	Part	0.11	Plot Added
				127	108	294	Part	0.29	Plot Added
				128	13	295	Part	0.38	Plot Added
				129	50	296	Part	0.49	Plot Added
79	61	303	0.29	130	61	303	Part	0.27	Area Change
				131	48	304	Part	0.43	Plot Added

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				132	48	305	Part	0.48	Plot Added
				133	48	306	Part	0.24	Plot Added
80	48	307	0.03	134	48	307	Full	0.14	Area Change
121		308	0.15	135	48	308	Full	0.10	Area Change
122	48	309	0.20	136	48	309	Full	0.20	
123		310	0.22	137	48	310	Full	0.22	
124		311	0.15	138	48	311	Full	0.15	
125	48	312	0.36	139	48	312	Full	0.36	
126	24	313	0.38	140	24	313	Full	0.38	
127	61	314	0.07	141	61	314	Full	0.07	
128		315	0.06	142	61	315	Full	0.06	
129	48	316	0.79	143	48	316	Full	0.79	
130	48	317	0.06	144	48	317	Full	0.06	
131	48	318	0.10	145	48	318	Full	0.10	
132	53	319	0.10	146	53	319	Full	0.10	
133	30	320	0.18	147	30	320	Full	0.18	
134	48	321	0.65	148	48	321	Full	0.65	
135	32	322	0.22	149	32	322	Full	0.22	
136	47	323	0.39	150	47	323	Full	0.29	Area Change
137		324	0.52	151	47	324	Full	0.52	
138	14	325	1.34	152	14	325	Full	1.34	
139	117	326	0.27	153	117	326	Full	0.27	
140		327	0.30	154	117	327	Full	0.30	
141	127	328	0.25	155	127	328	Full	0.25	
142	8	329	0.46	156	8	329	Full	0.46	
143		330	0.33	157	46	330	Full	0.33	Area Change
144	24	331	0.01	158	24	331	Full	0.01	
145	24	332	0.94	159	24	332	Full	0.94	

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146		333	0.27	160	11	333	Full	0.27	
147	128	334	0.57	161	128	334	Part	0.46	Area Change
148	25	335	0.39	162	25	335	Full	0.39	
149	11	336	0.22	163	11	336	Full	0.22	
150		337	0.18	164	46	337	Full	0.10	Area Change
151		338	0.19	165	11	338	Full	0.19	
152		339	0.12	166	11	339	Full	0.12	
153		340	0.63	167	46	340	Full	0.51	Area Change
154	27	341	0.68	168	27	341	Full	0.68	
155		342	0.04	169	27	342	Full	0.04	
156		343	0.57	170	24	343	Full	0.57	
157		344	0.04	171	24	344	Full	0.04	
158	27,28	345	0.42	172	27	345	Full	0.42	khata no. changed to 27 from 27,28
159	19	346	0.66	173	19	346	Full	0.66	
160		347	1.96	174	19	347	Full	1.96	
161		348	0.75	175	19	348	Full	0.75	
162		349	0.77	176	19	349	Full	0.77	
163	69	350	0.45	177	69	350	Full	0.45	
164		351	0.97	178	25	351	Full	0.97	
165	25	352	0.20	179	25	352	Full	0.20	
166		353	0.12	180	25	353	Full	0.12	
167	70	354	0.52	181	70	354	Full	0.52	
168	69	355	0.06	182	69	355	Full	0.06	
169		356	0.65	183	69	356	Full	0.65	
170	68	357	1.88	184	68	357	Full	1.88	
171		358	1.79	185	84	358		1.24	Area Change/khata

							Full		no. changed
173	32,19	360	1.21	186	32	360	Full	1.21	Khata no.
174		366	0.62	187	68	366	Part	0.61	Area Change
175	82	367	1.01	188	82	367	Part	0.93	Area Change
				189	85	368	Part	0.03	Plot Added
				190	85	369	Part	0.1	Plot Added
				191	76	370	Part	0.1	Plot Added
				192	76	373	Part	0.01	Plot Added
				193	81	374	Part	0.07	Plot Added
177	1	375P	0.37	194	1	375	Part	0.27	Area Change
				195	60	376	Part	0.08	Plot Added
	78	377	0.11	196	78	377	Part	0.07	Area Change
179	92	174	1.36	197	80	380	Part	0.05	Deleted
186	73	395	0.17	198	73	395	Part	0.15	Area change
				199	22	396	Part	0.16	Plot Added
176	82	397	2.18	200	82	397	Part	1.52	Area Change
				201	99	399	Part	0.30	Plot Added
62	24	400	0.1	202	24	400	Part	1.98	Area Change
63	24	401	0.4	203	24	401	Full	1.03	Area Change
				204	46	402	Full	0.33	Plot Added
				205	46	403	Part	0.17	Plot Added
				206	24	404	Part	0.07	Plot Added
				207	61	462	Part	0.07	Plot Added
40	3	187/11 25	0.12	208	5	187/11 2 5	Full	0.12	
13	38	160/11 32	1.58	209	38	1132/1 6	Full	1.44	Area Change

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						0			
1	1	104	3.33						Deleted
1	48	312	0.07						Deleted
2	1	149	1.97						Deleted
2	48	312	0.17						Deleted
3	1	150	1.68						Deleted
3	24	313	0.38						Deleted
4	1	151	0.77						Deleted
4	61	314	0.07						Deleted
5	10	152	0.94						Deleted
5	61	315	0.06						Deleted
6	38	153	0.5						Deleted
6	48	316	0.79						Deleted
7	38	153	1.79						Deleted
7	48	317	0.06						Deleted
8	38	153	1.04						Deleted
8	47	154	0.36						Deleted
8	48	318	0.05						Deleted
9	47	155	0.42						Deleted
9	48	318	0.05						Deleted
10	91	173	0.9						Deleted
10	53	319	0.1						Deleted
11	92	174	1.36						Deleted
11	30	320	0.18						Deleted
12	2	188	0.2						Deleted
12	48	321	0.16						Deleted
13	36	190	0.03						Deleted
13	48	321	0.16						Deleted

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14	26	193	0.2						Deleted
14	48	321	0.15						Deleted
15	45	193	0.51						Deleted
15	48	321	0.18						Deleted
16	36	194	0.92						Deleted
16	32	322	0.22						Deleted
17	26	195	0.06						Deleted
17	47	323	0.39						Deleted
18	26	196	0.41						Deleted
18	47	324	0.52						Deleted
19	26	198	0.23						Deleted
19	14	325	1.34						Deleted
20	26	199	0.03						Deleted
20	117	326	0.27						Deleted
21	26	200	0.05						Deleted
21	117	327	0.3						Deleted
22	24	201	0.24						Deleted
22	117	328	0.25						Deleted
23	24	201	0.36						Deleted
23	8	329	0.46						Deleted
24	60	202	0.17						Deleted
24	46	330	0.33						Deleted
25	97	203	1.06						Deleted
25	24	331	0.01						Deleted
26	39	204	1.13						Deleted
26	24	332	0.6						Deleted
27	8	332	0.78						Deleted
28	118	206	1.62						Deleted

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165 *(with handwritten mark)*

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28	11	333	0.1						Deleted
29	121	207	1.38						Deleted
29	128	334	0.02						Deleted
30	120	208	1.21						Deleted
30	25	335	0.14						Deleted
31	1	209	0.32						Deleted
31	11	336	0.22						Deleted
32	1	210	0.1						Deleted
32	46	337	0.1						Deleted
33	1	211	0.09						Deleted
33	11	338	0.19						Deleted
34	1	212	0.18						Deleted
34	11	339	0.12						Deleted
35	105	213	0.12						Deleted
35	46	340	0.51						Deleted
36	105	214	0.14						Deleted
36	27	341	0.68						Deleted
37	105	215	0.1						Deleted
37	27	342	0.04						Deleted
38	11	216	0.42						Deleted
38	24	343	0.57						Deleted
39	111	217	0.54						Deleted
39	24	344	0.04						Deleted
40	11	218	0.45						Deleted
40	28	345	0.21						Deleted
41	95	219	1.67						Deleted
41	27	345	0.21						Deleted
42	3	220	0.96						Deleted

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42	19	346	0.66						Deleted
43	19	347	0.16						Deleted
44	100	237	0.1						Deleted
44	19	347	1.8						Deleted
45	3	240	0.24						Deleted
45	19	348	0.67						Deleted
46	3	241	0.61						Deleted
46	19	348	0.08						Deleted
47	3	242	0.12						Deleted
47	19	349	0.77						Deleted
48	3	243	0.22						Deleted
48	69	350	0.45						Deleted
49	3	243	0.1						Deleted
49	25	351	0.79						Deleted
50	60	244	0.22						Deleted
50	70	354	0.5						Deleted
51	32	245	1.39						Deleted
51	69	355	0.06						Deleted
52	102	246	0.06						Deleted
52	69	356	0.65						Deleted
53	96	247	0.89						Deleted
53	68	357	1.88						Deleted
54	101	248	0.06						Deleted
54	32	360	0.27						Deleted
55	103	249	0.18						Deleted
55	19	360	0.64						Deleted
56	2	250	0.07						Deleted
56	68	366	0.6						Deleted

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57	66	250	1.07						Deleted
57	82	367	0.76						Deleted
58	66	251	0.18						Deleted
59	67	252	0.33						Deleted
59	78	377	0.01						Deleted
60	67	253	0.48						Deleted
60	73	395	0.17						Deleted
61	32	254	0.23						Deleted
61	82	397	1.03						Deleted
62	100	255	1.14						Deleted
63	100	255	0.12						Deleted
64	100	256	0.08						Deleted
65	53	257	0.06						Deleted
66	60	258	0.06						Deleted
67	60	258	0.08						Deleted
68	32	258	0.57						Deleted
69	60	258	0.48						Deleted
71	32	258	0.08						Deleted
72	32	260	0.3						Deleted
74	100	236P	0.44						Deleted
74	25	272	0.36						Deleted
75	25	273	1.56						Deleted
76	25	274	2.4						Deleted
77	25	275	0.01						Deleted
78	83	284	1.18						Deleted
81	48	308	0.1						Deleted
82	48	309	0.08						Deleted
83	48	309	0.1						Deleted

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84	48	310	0.22						Deleted
85	48	311	0.15						Deleted
86	48	312	0.12						Deleted
95	48	260P	0.43						Deleted
120		285	0.39						Deleted
178	91	173	0.9						Deleted
180	2	188	0.20						Deleted
181	100	237	0.1						Deleted
182	83	284	1.18						Deleted
183	61	303	0.17						Deleted
184	48	307P	0.03						Deleted
185	78	377	0.01						Deleted
187	24	400P	0.1						Deleted
188	24	401P	0.43						Deleted
						Total		106.93	

VILLAGE- LATMA, THANA NO. 243									
As per EC & Deed of Conveyance				As per Rectified Deed					
S.No. Deed of Conv.	Khata No.	Plot No.	Area As per Deed of Conv. (Acres)	S.No.	Khata No.	Plot No.	Allotment Type	Area As per Reg. Deed (Acres)	Rectification Details
1		822	1.90	21	82	822	Part	2.83	Area Change
2		831	1.54	28	82	831	Full	1.54	
3		832	0.04	29	82	832	Full	0.04	
4	82	833	0.66	30	82	833	Full	0.66	
5		834	1.01	31	57	834	Full	1.01	
6		835	2.43	32	82	835	Full	2.43	
7		836	0.52	33	135	836	Full	0.38	Area Change
8		837	0.89	34	135	837	Full	0.84	Area Change

9		838	1.14	35	82	838	Full	1.14	
10	30	839	0.29	36	30	839	Full	0.29	
11	30	840	0.05	37	30	840	Full	0.05	
12		841	0.47	38	136	841	Full	0.38	Area Change
13	30	842	0.62	39	30	842	Full	0.72	Area Change
14	30	843	0.21	40	30	843	Full	0.21	
15	61	844	0.13	41	61	844	Full	0.13	
16	61	845	0.15	42	61	845	Full	0.15	
17	135	846	0.18	43	135	846	Full	0.18	
18	135	847	0.37	44	135	847	Part	0.25	Area Change
19	120	848	0.25	45	120	848	Part	0.21	Area Change
20	120	849	0.28	46	120	849	Full	0.28	
21	83	850	0.20	47	83	850	Full	0.20	khata no.
22	83	851	0.10	48	83	851	Full	0.10	khata no.
23	82	852	0.21	49	82	852	Full	0.21	
24	82	853	0.07	50	82	853	Full	0.22	Area Change
25	135	854	0.11	51	135	854	Full	0.11	
26	82	855	0.33	52	82	855	Full	0.33	
27	135	856	0.40	53	135	856	Full	0.40	
28	82	857	0.08	54	82	857	Full	0.08	
29	82	858	1.38	55	82	858	Full	1.38	
30	135	859	0.35	56	135	859	Full	0.35	
31	83	860	0.87	57	83	860	Full	0.85	
32	82	861	0.39	58	82	861	Full	0.39	
33	82	862	0.05	59	82	862	Full	0.05	
34	154	863	0.04	60	154	863	Full	0.04	
35	83	864	0.01	61	83	864	Full	0.01	
36	154	865	0.10	62	154	865	Full	0.10	



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37	154	866	0.08	63	154	866	Full	0.04	Area Change/khata
38	83	867	0.25	64	83	867	Full	0.25	
39	83	868	0.84	65	83	868	Part	0.64	Area Change
40	51	869	1.29	66	51	869	Part	1.28	Area Change
41	135	870	0.61	67	135	870	Full	0.30	Area Change/khata
42	93	871	0.68	68	93	871	Full	0.68	
43	135	872	0.57	69	135	872	Full	0.31	Area Change
44	124	874	0.91	71	124	874	Full	0.91	
45	123	875	0.58	72	123	875	Full	0.58	
46	124	876	0.08	73	124	876	Full	0.08	
47	135	877	0.21	74	135	877	Full	0.18	Area Change
48	123	878	0.31	75	123	878	Full	0.31	
49	123	879	0.28	76	123	879	Full	0.28	
50	123	880	0.21	77	123	880	Full	0.21	
51	51	881	1.47	78	51	881	Full	1.20	khata no. Changed Area
52	76	882	0.68	79	76	882	Full	0.68	
53	131	883	0.33	80	131	883	Part	0.36	Area Change
54	123	884	1.02	81	123	884	Part	0.63	Area Change
55	40	885	0.46						Deleted
56	69	886	0.85	82	69	886	Part	0.07	Area Change
57	77	887	0.82	83	77	887	Part	0.80	Area Change
58	26	888	1.64	84	26	888	Part	1.54	Area Change
59	84	889	1.32	85	84	889	Full	1.32	
60	135	890	0.03	86	135	890	Full	0.03	
61	103	891	0.15	87	103	891	Full	0.15	
62	31	892	0.27	88	31	892	Full	0.27	

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63	34	893	0.14	89	34	893	Full	0.14	
64	107	894	0.13	90	107	894	Full	0.13	
65	107	895	0.19	91	107	895	Full	0.19	
66	107	896	0.51	92	107	896	Part	0.36	Area Change
67	107	897	0.25	93	107	897	Part	0.14	Area Change
68	34	898	1.11	94	34	898	Full	1.11	
69	142	899	0.35	95	142	899	Full	0.35	
70	142	900	2.42	96	142	900	Full	2.42	
71	142	901	0.16	97	142	901	Full	0.16	
72	142	902	1.10	98	142	902	Part	0.35	Area Change
73		907	0.61						Deleted
74	57	906	0.40						Deleted
75	131	908	0.17						Deleted
76	51	909	0.43	100	51	909	Part	0.34	Area Change
77	123	910	0.26	101	123	910	Full	0.26	
78		911	0.43	102	135	911	Full	0.29	Area Change
79	51	912	0.43	103	51	912	Full	0.43	
80	131	913	0.43	104	131	913	Part	0.22	Area Change
81	57	914	0.40	105	57	914	Part	0.09	Area Change
82	57	915	0.16	106	57	915	Full	0.16	
83		916	0.11	107	132	916	Full	0.10	
84		917	0.15	108	132	917	Full	0.16	Area Change
85		918	0.12	109	132	918	Full	0.09	Area Change
86		919	0.30	110	131	919	Full	0.30	
87		920	1.19	111	135	920	Full	1.16	Area Change
88	140	1100	1.23						Deleted
89		921	0.18	112	135	921	Full	0.14	Area Change
90		922	0.15	113	77	922	Full	0.10	Area Change

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91	68	923	0.17	114	68	923	Full	0.17	
92		924	0.12	115	157	924	Full	0.07	Area Change
93		925	1.03	116	157	925	Full	0.74	Area Change
94	68	926	1.61	117	3	926	Full	1.61	khata no.
95		927	0.02	118	135	927	Full	0.08	Area Change/khata
96	59	928	1.45	119	59	928	Full	1.43	Area Change
97	84	929	0.17	120	84	929	Full	0.17	
98	84	930	0.34	121	84	930	Full	0.84	Area Change
99	84	931	0.17	122	84	931	Full	0.17	
100	84	932	0.22	123	84	932	Full	0.22	
101	84	933	0.22	124	84	933	Full	0.22	
102	59	934	0.23	125	59	934	Full	0.23	
103	59	935	0.29	126	59	935	Full	0.29	
104		940	0.05	131	132	940	Full	0.16	Area Change
105	132	941	0.48	132	132	941	Part	0.46	Area Change
106		943	1.59	134	121	943	Part	1.15	Area Change
107		1066	0.05						Deleted
108		1065	0.31						Deleted
109	1	1060	0.20						Deleted
110		1047	0.09						Deleted
111	39	1081	0.30	161	39	1081	Part	0.25	Area Change
112		1080	0.32						Deleted
113	39	1082	0.64	162	39	1082	Part	0.49	Area Change
114	39	1083	0.64	163	39	1083	Part	0.60	Area Change
115	58	1084	0.79	164	58	1084	Full	1.01	Area Change
116		1086	0.40	166	34	1086	Full	0.37	Area Change
117	34	1085	0.52	165	34	1085	Full	1.05	Area Change

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118	85	1077	0.46	160	85	1077	Part	0.09	
119	85	1078	0.27						Deleted
120	85	1079	0.65						Deleted
121	134	1075	0.51						Deleted
122	81	1074	0.42						Deleted
123		1072	0.38						Deleted
124		1703	0.08						Deleted
125	131	1067	0.10						Deleted
126		1153	0.28	233	34	1153	Part	0.09	Area Change
127	31	1148	1.24	228	31	1148	Part	0.09	Area Change
128	31	1147	0.33	227	31	1147	Part	0.26	Area Change
129		1143	0.14	223	136	1143	Part	0.35	Area Change
130		1140	0.07	220	57	1140	Full	0.07	
131		1141	0.04	221	135	1141	Full	0.05	Area Change
132		1177	0.36	255	135	1177	Full	0.78	Area Change
133		1178	0.08	256	135	1178	Full	0.09	Area Change
134	57	1139	1.85	219	57	1139	Full	1.82	Area Change
135		1043	0.21						Deleted
136		1035	0.19	151	107	1035	Part	0.11	Area Change
137		1028	0.67	150	107	1028	Part	1.20	Area Change
138		1013	0.08	142	103	1013	Part	0.72	Area Change/khata
139	153	1129	0.48	209	153	1129	Full	0.59	Area Change
140		1142	1.25						Deleted
141	57	1138	0.08	218	57	1138	Full	0.07	Area Change
142		1042	1.56						Deleted
143		1043	0.45	159	40	1043	Part	0.23	Area Change/khata
144		1073	0.02						Deleted

145	135	1076	0.02						Deleted
146		1101	1.38	181	13	1101	Full	0.36	Area Change
147	132	1102	0.59	182	40	1102	Full	0.07	Area Change/khata
148	132	1103	0.69	183	40	1103	Full	0.86	Area Change/khata
149		1104	0.70	184	40	1104	Full	0.86	Area Change
150	59	1105	0.27	185	107	1105	Full	1.08	Area Change/khata
151	135	1106	0.89	186	95	1106	Full	1.13	Area Change/khata
152	22	1107	0.16	187	109	1107	Full	0.86	khata no.
153	132	1108	0.17	188	135	1108	Part	0.03	Area Change/khata
154		1109	0.51	189	109	1109	Full	0.11	Area Change
155	132	1110	0.27	190	118	1110	Full	0.16	Area Change/khata
156		1111	0.25	191	106	1111	Full	2.80	Area Change
157		1291	0.05	328	143	1291	Part	0.90	Area Change
158		1292	0.31	329	84	1292	Part	0.93	Area Change
159	154	1229	2.10	295	34	1229	Part	1.70	Area Change/khata
160	31	1230	0.08	296	110	1230	Full	2.28	Area Change/khata
161	110	1231	0.37	297	110	1231	Full	0.37	
162		1232	0.07	298	135	1232	Full	0.07	
163	110	1233	0.41	299	110	1233	Full	0.41	
164	107	1234	0.14	300	107	1234	Part	0.10	Area Change
165	34	1235	1.08	301	107	1235	Part	0.39	Area Change

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166		1236	0.10	302	180	1236	Part	0.06	Area Change/khata
167	19	1237	1.12	303	19	1237	Full	1.12	
168	33	1238	1.14	304	33	1238	Full	1.14	
169	8	1239	0.97	305	8	1239	Part	0.92	Area Change
170	13	1240	1.30	306	13	1240	Full	1.30	
171	33	1241	0.25	307	33	1241	Full	0.25	
172		1242	0.13	308	33	1242	Full	0.13	
173		1243	0.04	309	33	1243	Full	0.04	
174	8	1244	0.17	310	8	1244	Full	0.17	
175	8	1245	0.49	311	8	1245	Part	0.42	Area Change
176		1246	0.96	312	44	1246	Part	0.32	Area Change
177	87	1247	0.92	313	87	1247	Part	0.90	Area Change
178	31	1248	1.15	314	31	1248	Part	1.07	Area Change
179		1249	0.91	315	33	1249	Full	0.91	
180		1250	0.89	316	8	1250	Part	0.64	Area Change
181		1251	0.64	317	31	1251	Part	0.25	Area Change
182	110	1267	0.18						Deleted
183		1268	0.89	325	110	1268	Part	0.17	Area Change
184	55	1253	0.59	319	55	1253	Full	0.89	Area Change
185		1254	1.09	320	55	1254	Full	1.09	
186	87	1255	1.64	321	87	1255	Part	1.53	Area Change
187	8	1245	0.49						Deleted
188	31	1248	1.15						Deleted
189	137	1256	1.47	322	137	1256	Part	0.75	Area Change
190		1257	0.50	323	31	1257	Part	0.01	Area Change
191	141	1288	0.19	326	141	1288	Part	0.50	Area Change
192	82	1258	0.23	324	82	1258	Part	0.03	Area Change

193		1293	0.75	330	59	1293	Part	1.03	Area Change
194		1294	0.65	331	135	1294	Part	0.66	Area Change
195	44	1295	0.70	332	44	1295	Part	0.82	Area Change
196	84	1297	1.01	333	86	1297	Part	0.71	Area Change/khata
197	86	1298	1.03	334	86	1298	Part	1.01	Area Change
198		1299	1.24	335	107	1299	Full	1.05	Area Change
199		1300	0.72	336	25	1300	Full	0.65	Area Change
200		1301	0.26	337	118	1301	Full	0.16	Area Change
201		1302	1.27	338	118	1302	Full	1.08	Area Change
202		1303	0.09	339	118	1303	Full	0.09	
203		1304	0.08	340	107	1304	Full	0.08	
204		1305	0.46	341	107	1305	Full	0.45	Area Change
205		1306	0.43	342	107	1306	Full	0.43	
206		1307	0.32	343	107	1307	Full	0.32	
207	31	1308	0.71	344	31	1308	Full	0.71	
208		1309	0.08	345	107	1309	Full	0.07	Area Change
209		1310	3.75	346	139	1310	Part	2.40	Area Change
210		1311	0.63	347	153	1311	Part	0.44	Area Change
211		1312	0.24	348	135	1312	Full	0.19	Area Change
212		1313	0.02	349	118	1313	Full	0.01	Area Change
213		1314	1.33	350	19	1314	Full	1.17	Area Change
214		1315	0.37	351	25	1315	Part	0.26	Area Change
215		1316	0.17	352	88	1316	Part	0.01	Area Change
216		1317	0.57						Deleted
217		1325	1.16	353	34	1325	Part	1.23	Area Change
218		1326	0.18	354	135	1326	Part	0.12	Area Change
219		1327	0.10	355	34	1327	Part	0.03	Area Change

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220		1329	0.17						Deleted
221		1341	1.71	356	88	1341	Part	1.19	Area Change
222		1342	0.47	357	138	1342	Part	0.25	Area Change
223		1343	0.87	358	137	1343	Part	0.57	Area Change/khata
224		1344	1.86	359	137	1344	Part	1.13	Area Change/khata
225		1345	0.45	360	139	1345	Full	0.21	Area Change
226		1346	0.05	361	107	1346	Full	0.05	
227		1347	0.92	362	107	1347	Full	0.44	Area Change
228		1348	1.06	363	55	1348	Full	1.05	Area Change/khata
229	31	1349	0.31	364	31	1349	Full	0.31	
230		1350	0.09	365	34	1350	Full	0.09	
231		1351	0.06	366	34	1351	Full	0.06	
232		1352	0.59	367	107	1352	Full	0.59	khata no.
233		1353	0.05	368	34	1353	Full	0.05	
234		1354	0.47	369	34	1354	Full	0.43	Area Change
235		1355	0.29	370	136	1355	Full	0.18	khata no.
236		1356	0.72	371	135	1356	Full	0.50	Area Change
237		1357	1.03	372	135	1357	Full	0.75	Area Change
238		1358	1.63	373	107	1358	Full	1.10	
239		1359	0.74	374	135	1359	Full	0.47	Area Change
240		1337	0.41						Deleted
241		1367	0.73	379	34	1367	Part	0.84	Area Change
242	33	1534	0.59	416	34	1534	Full	0.59	
243		1535	0.53	417	34	1535	Full	0.53	
244		1539	0.53	421	33	1539	Full	0.54	Area Change
245		1540	0.62	422	34	1540	Full	0.42	Area Change

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246		1541	0.31	423	107	1541	Full	0.31	
247		1542	0.37	424	60	1542	Full	0.24	Area Change
248		1543	0.09	425	135	1543	Full	0.09	
249	60	1544	0.65	426	60	1544	Full	0.65	
250		1545	0.30	427	107	1545	Full	0.30	Area Change
251		1546	0.06	428	34	1546	Full	0.07	Area Change
252	142	1547	0.73	429	142	1547	Full	0.73	
253		1548	0.06	430	153	1548	Full	0.08	Area Change
254	34	1549	0.28	431	34	1549	Full	0.28	
255	143	1550	0.97	432	143	1550	Full	0.97	
256	34	1551	0.11	433	34	1551	Full	0.11	
257		1552	0.23	434	34	1552	Full	0.23	
258	118	1553	0.20	435	118	1553	Full	0.20	
259	39	1554	0.39	436	44	1554	Full	0.07	Area Change/khata
260		1555	0.17	437	136	1555	Full	0.23	Area Change
261		1556	0.11	438	136	1556	Full	0.15	Area Change
262		1557	0.42	439	44	1557	Full	0.42	
263		1558	0.07	440	44	1558	Full	0.07	
264	44	1559	0.44	441	44	1559	Full	0.44	
265		1560	0.84	442	44	1560	Full	0.84	
266	135	1561	0.12	443	135	1561	Full	0.12	
267		1562	1.02	444	44	1562	Full	1.02	
268		1563	0.03	445	99	1563	Full	0.03	
269		1564	0.04	446	99	1564	Full	0.04	
270	99	1565	0.09	447	99	1565	Full	0.09	
271		1566	0.87	448	135	1566	Full	0.79	Area Change
272	9	1567	0.54	449	9	1567	Full	0.54	

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179

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273		1568	1.01	450	135	1568	Full	1.01	
274		1569	0.12	451	135	1569	Full	0.12	
275		1570	0.11	452	135	1570	Full	0.07	
276	44	1571	0.57	453	44	1571	Full	0.57	
277	44	1572	1.95	454	44	1572	Full	1.32	Area Change
278	99	1573	0.73	455	44	1573	Full	0.63	Area Change/khata
279	99	1574	0.41	456	99	1574	Full	0.41	
280	135	1575	1.27	457	135	1575	Full	1.27	
281	99	1576	0.08	458	99	1576	Full	0.08	
282		1577	0.01	459	135	1577	Full	0.76	Area Change
283	135	1578	0.11	460	135	1578	Full	0.22	Area Change
284		1579	0.13	461	135	1579	Full	0.13	
285	107	1580	0.87	462	107	1580	Full	0.87	
286		1581	0.95	463	135	1581	Full	0.95	
287	135	1582	3.99	464	135	1582	Full	4.09	Area Change
288	99	1583	0.59	465	106	1583	Full	0.59	
289		1584	0.61	466	106	1584	Full	0.61	
290		1585	0.59	467	106	1585	Full	0.59	
291		1586	0.06	468	106	1586	Full	0.06	
292		1587	0.04	469	106	1587	Full	0.04	
293		1588	0.61	470	106	1588	Full	0.61	
294	106	1589	0.46	471	106	1589	Full	0.46	
295		1590	0.24	472	106	1590	Full	0.24	
296		1591	0.24	473	39	1591	Full	0.24	
297		1592	0.08	474	39	1592	Full	0.08	
298	135	1593	0.16	475	135	1593	Full	0.16	
299	39	1594	0.42	476	39	1594	Full	0.42	

Handwritten signatures and marks:
 - A large checkmark on the left.
 - A signature 'A' in the middle.
 - A signature 'B' on the right.
 - A signature 'C' on the far right.

300		1595	0.21	477	39	1595	Full	0.21	
301		1596	0.76	478	39	1596	Full	0.76	
302		1597	0.83	479	106	1597	Full	0.83	
303		1598	0.37	480	106	1598	Full	0.37	
304		1599	0.62	481	106	1599	Part	0.57	Area Change
305	109	1107	0.86						Deleted
306		1111	1.86						Deleted
307		1112	0.92	192	107	1112	Full	1.02	Area Change
308	135	1113	0.41	193	135	1113	Full	0.41	
309		1114	0.01	194	135	1114	Full	0.01	
310		1115	0.03	195	107	1115	Full	0.01	Area Change
311		1116	0.48	196	107	1116	Full	0.48	
312	35	1117	0.27	197	95	1117	Full	0.27	khata no.
313		1118	1.04	198	135	1118	Full	1.04	
314	135	1119	0.14	199	135	1119	Full	0.14	
315		1120	0.04	200	34	1120	Full	0.04	
316		1121	0.95	201	34	1121	Full	0.95	
317		1122	0.39	202	34	1122	Full	0.39	
318		1123	3.85	203	135	1123	Full	3.86	Area Change
319		1124	1.13	204	107	1124	Full	1.13	
320		1125	0.20	205	107	1125	Full	0.20	
321		1126	0.68	206	107	1126	Full	0.99	Area Change
322	107	1127	0.99	207	107	1127	Full	0.99	
323		1128	0.24	208	107	1128	Full	0.24	
324	143	1131	1.17	211	143	1131	Full	1.17	
325		1132	0.14	212	34	1132	Full	0.14	
326		1133	0.64	213	34	1133	Full	0.64	khata no.
327	88	1134	0.83	214	88	1134	Full	0.83	

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328		1135	1.10	215	88	1135	Full	1.10	
329		1136	1.08	216	103	1136	Full	1.09	Area Change/khata
330	34	1137	1.07	217	34	1137	Full	1.07	
331		1142	0.53	222	27	1142	Part	1.58	Area Change
332		1144	0.08	224	59	1144	Full	0.08	
333		1145	0.17	225	135	1145	Full	0.17	
334		1146	0.12	226	57	1146	Part	0.01	Area Change
335		1149	0.72	229	80	1149	Part	0.66	Area Change
336		1150	0.32	230	39	1150	Full	0.32	
337		1151	0.07	231	39	1151	Full	0.07	
338		1157	0.47	236	59	1157	Full	0.10	Area Change
339	59	1158	0.90	237	59	1158	Full	0.90	
340	160	1159	0.01	238	135	1159	Full	0.01	khata no.
341	160	1160	0.13	239	160	1160	Full	0.13	
342		1161	0.10	240	160	1161	Full	0.10	
343		1162	0.02	241	135	1162	Full	0.04	Area Change
344	79	1163	0.28	242	79	1163	Full	0.28	
345		1164	0.02	243	135	1164	Full	0.03	Area Change
346		1165	0.01	244	135	1165	Part	0.01	
347		1166	0.13						Deleted
348	77	1167	0.08	245	77	1167	Part	0.05	Area Change
349		1168	0.43	246	158	1168	Full	0.43	
350		1169	0.17	247	159	1169	Full	0.17	
351		1170	0.57	248	157	1170	Full	0.57	
352		1171	0.32	249	135	1171	Full	0.17	Area Change/khata
353	59	1172	0.33	250	59	1172	Full	0.33	
354	77	1173	0.66	251	77	1173	Full	0.66	

355		1174	0.27	252	77	1174	Full	0.37	Area Change
356		1175	0.33	253	59	1175	Part	0.25	Area Change
357		1176	0.07	254	59	1176	Full	0.07	
358		1179	0.04	257	57	1179	Full	0.03	Area Change
359	135	1180	0.08	258	135	1180	Full	0.08	
360		1181	0.25	259	135	1181	Full	2.12	Area Change
361		1182	0.09	260	135	1182	Full	0.09	
362	135	1183	3.73	261	135	1183	Part	6.74	Area Change
363		1184	1.73	262	135	1184	Full	1.30	Area Change
364		1185	0.37	263	135	1185	Full	0.16	Area Change
365		1186	0.38	264	34	1186	Full	0.13	Area Change/khata
366		1187	1.23	265	143	1187	Full	1.12	Area Change/khata
367	135	1188	1.56	266	135	1188	Part	1.44	Area Change
368	59	1189	0.16	267	59	1189	Full	0.16	
369	57	1190	2.10	268	57	1190	Part	1.87	Area Change
370		1191	0.61	269	34	1191	Part	0.36	Area Change
371	34	1192	0.59	270	34	1192	Part	0.38	Area Change
372		1193	1.46	271	135	1193	Part	0.03	Area Change/khata
373	141	1194	0.90	272	141	1194	Full	0.90	
374		1195	0.24	273	34	1195	Full	0.24	khata no.
375	81	1196	0.09	274	34	1196	Full	0.08	Area Change/khata
376		1197	0.60						Deleted
377		1198	0.06						Deleted
378	140	1200	1.23	275	140	1200	Part	0.24	Area Change


183

4



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379		1201	0.65	276	107	1201	Part	1.02	Area Change/khata
380	132	1202	0.59	277	132	1202	Part	0.29	Area Change
381		1203	0.69	278	132	1203	Full	0.67	Area Change
382	132	1204	0.70	279	132	1204	Full	0.70	
383		1205	0.27	280	59	1205	Full	0.27	
384	135	1206	0.89	281	135	1206	Full	0.86	Area Change
385	22	1207	0.16	282	22	1207	Full	0.16	
386		1208	0.17	283	132	1208	Full	0.17	
387		1209	0.51	284	132	1209	Full	0.51	
388		1210	0.25	285	132	1210	Part	0.14	Area Change
389	132	1211	0.25						Deleted
390	16	1021	0.20	143	16	1021	Part	0.40	Area Change
391		1022	0.35	144	128	1022	Part	0.69	Area Change/khata
392	100	1023	0.24	145	100	1023	Part	0.36	Area Change
393		1024	0.22	146	51	1024	Part	0.34	Area Change
394		1025	0.27	147	54	1025	Part	0.45	Area Change
395		1026	0.28	148	6	1026	Part	0.40	Area Change
396		1027	0.21	149	74	1027	Part	0.29	Area Change
397	31	1036	1.24	152	31	1036	Part	1.24	Area Change
398	33	1037	0.52	153	110	1037	Full	1.05	Area Change/khata
399		1038	1.07	154	74	1038	Full	0.83	Area Change
400	33	1039	0.58	155	33	1039	Full	0.58	
401	79	1040	0.59	156	79	1040	Full	0.59	
402		1041	0.61	157	59	1041	Full	0.61	
403		1042	0.67	158	59	1042	Part	1.25	Area Change
404	8	1087	0.71	167	85	1087	Full	0.71	khata no.

405	33	1088	0.51	168	33	1088	Full	0.51	
406	87	1089	1.26	169	87	1089	Full	1.26	
407	34	1090	1.29	170	34	1090	Full	1.29	
408		1091	0.03	171	135	1091	Full	0.02	Area Change
409	59	1092	1.85	172	59	1092	Full	1.85	
410		1093	1.46	173	34	1093	Full	1.85	Area Change
411		1094	0.02	174	110	1094	Full	0.02	
412	110	1095	0.73	175	110	1095	Full	0.73	
413		1096	1.06	176	107	1096	Full	1.06	
414	17	1097	0.56	177	17	1097	Full	0.56	
415	17	1098	0.13	178	17	1098	Full	0.13	
416	17	1099	1.23	179	17	1099	Full	1.14	Area Change
417	13	1100	0.38	180	13	1100	Full	0.38	
418	12	1438	0.37	392	12	1438	Part	1.04	Area Change
419		1441	0.05	395	136	1441	Part	0.13	Area Change
420		1444	0.35	396	118	1444	Full	0.39	Area Change
421		1448	1.10	400	64	1448	Full	1.12	Area Change
422		1449	0.48	401	44	1449	Part	0.34	Area Change
423	13	1450	0.29	402	13	1450	Full	0.29	
424	55	1451	0.52	403	55	1451	Part	0.49	Area Change
425		1452	0.47	404	136	1452	Full	0.15	Area Change
426	55	1453	0.55	405	44	1453	Full	0.55	khata no.
427	127	1454	0.26	406	127	1454	Full	0.26	
428		1456	0.35	408	127	1456	Part	0.52	Area Change
429		1457	0.37	409	51	1457	Part	0.19	Area Change
430		1458	0.49	410	107	1458	Part	0.08	Area Change
				1	180	645	Part	1.90	Plot Added
				2	82	673	Part	0.04	Plot Added

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185

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				3	102	674	Part	0.20	Plot Added
				4	82	676	Part	0.52	Plot Added
				5	102	678	Part	0.03	Plot Added
				6	102	679	Part	0.40	Plot Added
				7	34	680	Part	0.70	Plot Added
				8	34	681	Part	0.15	Plot Added
				9	22	682	Part	0.46	Plot Added
				10	121	683	Part	0.79	Plot Added
				11	130	684	Part	0.09	Plot Added
				12	107	685	Part	0.08	Plot Added
				13	137	686	Part	1.06	Plot Added
				14	135	687	Part	0.05	Plot Added
				15	102	688	Part	0.45	Plot Added
				16	136	689	Part	0.34	Plot Added
				17	82	690	Part	1.32	Plot Added
				18	82	691	Full	0.52	Plot Added
				19	82	692	Part	0.71	Plot Added
				20	82	821	Part	0.02	Plot Added
				22	82	825	Part	0.05	Plot Added
				23	82	826	Part	0.03	Plot Added
				24	82	827	Part	0.03	Plot Added
				25	82	828	Full	0.12	Plot Added
				26	82	829	Full	0.10	Plot Added
				27	82	830	Full	0.15	Plot Added
				70	124	873	Full	0.27	Plot Added
				99	77	903	Part	0.14	Plot Added
				127	107	936	Full	0.16	Plot Added
				128	74	937	Part	0.19	Plot Added

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				129	107	938	Part	0.37	Plot Added
				130	132	939	Part	0.36	Plot Added
				133	132	942	Part	0.16	Plot Added
				135	121	944	Part	0.03	Plot Added
				136	118	1005	Part	0.27	Plot Added
				137	109	1006	Part	0.22	Plot Added
				138	37	1007	Part	0.11	Plot Added
				139	13	1008	Part	0.19	Plot Added
				140	81	1011	Part	0.09	Plot Added
				141	44	1012	Part	0.14	Plot Added
				210	147	1130	Full	0.19	Plot Added
				232	39	1152	Part	0.17	Plot Added
				234	34	1155	Part	0.21	Plot Added
				235	59	1156	Full	0.47	Plot Added
				286	77	1213	Part	0.27	Plot Added
				287	137	1221	Part	0.97	Plot Added
				288	141	1222	Part	0.59	Plot Added
				289	34	1223	Full	0.06	Plot Added
				290	107	1224	Part	0.07	Plot Added
				291	34	1225	Part	0.78	Plot Added
				292	34	1226	Part	0.06	Plot Added
				293	34	1227	Full	0.19	Plot Added
				294	34	1228	Full	0.06	Plot Added
				318	1	1252	Part	0.20	Plot Added
				327	141	1290	Part	0.80	Plot Added
				375	107	1360	Part	0.32	Plot Added
				376	107	1361	Part	0.41	Plot Added
				377	135	1365	Part	0.38	Plot Added

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				378	34	1366	Part	0.18	Plot Added
				380	34	1368	Part	0.12	Plot Added
				381	135	1370	Part	0.03	Plot Added
				382	55	1371	Part	1.18	Plot Added
				383	107	1376	Part	0.38	Plot Added
				384	136	1389	Part	0.14	Plot Added
				385	136	1423	Part	0.20	Plot Added
				386	127	1425	Part	0.29	Plot Added
				387	110	1431	Part	0.72	Plot Added
				388	13	1433	Part	0.17	Plot Added
				389	87	1434	Part	0.52	Plot Added
				390	68	1436	Part	0.01	Plot Added
				391	68	1437	Part	0.02	Plot Added
				393	110	1439	Part	0.06	Plot Added
				394	110	1440	Part	0.03	Plot Added
				397	107	1445	Full	0.05	Plot Added
				398	107	1446	Full	0.04	Plot Added
				399	107	1447	Full	0.28	Plot Added
				407	127	1455	Full	0.14	Plot Added
				411	19	1528	Part	0.06	Plot Added
				412	44	1529	Part	0.05	Plot Added
				413	55	1531	Part	0.07	Plot Added
				414	34	1532	Part	0.62	Plot Added
				415	136	1533	Full	0.09	Plot Added
				418	135	1536	Full	0.01	Plot Added
				419	33	1537	Full	0.34	Plot Added
				420	135	1538	Full	0.01	Plot Added
				482	106	1600	Full	0.08	Plot Added

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				483	106	1601	Full	0.25	Plot Added
				484	106	1602	Full	0.20	Plot Added
				485	106	1603	Full	0.10	Plot Added
				486	106	1604	Full	0.14	Plot Added
				487	106	1605	Full	0.18	Plot Added
				488	106	1606	Full	0.39	Plot Added
				489	106	1607	Full	0.28	Plot Added
				490	106	1608	Full	0.22	Plot Added
				491	106	1609	Full	0.23	Plot Added
				492	106	1610	Full	0.09	Plot Added
				493	106	1611	Full	0.07	Plot Added
				494	106	1612	Part	0.14	Plot Added
				495	77	1615	Part	0.05	Plot Added
				496	135	1617	Part	0.04	Plot Added
				497	60	1631	Part	0.04	Plot Added
				498	60	1632	Part	0.69	Plot Added
				499	79	1633	Part	0.46	Plot Added
				500	136	1634	Part	0.28	Plot Added
				501	117	1635	Part	0.45	Plot Added
				502	135	1636	Full	0.12	Plot Added
				503	117	1637	Part	0.22	Plot Added
				504	68	1638	Part	0.54	Plot Added
				505	116	1639	Part	0.46	Plot Added
				506	62	1640	Part	0.27	Plot Added
				507	117	1641	Part	0.32	Plot Added
				508	136	1642	Part	0.03	Plot Added
				509	60	1700	Full	0.09	Plot Added
				510	60	1701	Full	0.07	Plot Added

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						Total		250.96	
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VILLAGE- LATMA, THANA NO. 243

As per EC & Deed of Conveyance				As per Rectified Deed						
S.No. Deed of Conv.	Khata No.	Plot No.	Area As per Deed of Conv. (Acres)	S.No.	Khata No	Plot No	Allotment Type	Area As per Reg. Deed (Acres)	Rectification Details	
1	135	399	0.21	5	135	399	Part	0.15	Area Change	
2	70	400	0.23	6	70	400	Part	0.23		
3	123	401	0.31	7	123	401	Part	0.30	Area Change	
4	76	402	0.06	8	76	402	Part	0.05	Area Change	
5	135	403	0.22	9	135	403	Part	0.17	Area Change	
6	135	404	0.21	10	135	404	Full	0.18	Area Change	
7	135	405	0.16	11	135	405	Part	0.16		
8	123	406	0.17	12	123	406	Part	0.17		
9	135	407	0.60	13	135	407	Part	0.60		
10	22	408	0.32	14	22	408	Part	0.33	Area Change	
11	23	409	0.22	15	23	409	Full	0.24	Area Change	
12	135	410	0.46	16	135	410	Full	0.48	Area Change	
13	69	371	0.49	2	69	371	Full	0.48	Area Change	
14	69	372	0.39	3	69	372	Part	0.22	Area Change	
15	23	1697	0.10	17	23	1697	Part	0.32	Area Change	
				1	121	370	Part	0.06	Plot Added	
				4	135	397	Part	0.01	Plot Added	
				Total					4.15	

Construction status of the project:

S.No.	Project	Physical Progress	Status	Schedule of completion
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				(tentative)
01	a) Integrated Infrastructure Development b) Land Development c) Transport & Circulation with duct facility for utilities d) Water Supply & Reuse of recycled water e) Wastewater management f) Storm Water Drainage g) Street lighting h) Construction power arrangement (completed) i) Power distribution network	100%	O&M in ideal condition	---
02	Overhead line Shifting of 33kV & 11kV and 33/11 kV HMTP Substation Shifting	100%	Completed	----
03	220/33 kV GIS SS and Transmission Lines, Cables and Shifting 132kV OH-line to UG-cable	95%	Out of two sources GIS substation work is commissioned from Hatia Grid source. Implementation from Mandar Grid source for 132 kV Transmission line work is under progress.	Within EC Validity period i.e. 19/06/2029.
04	Open space and park development Phase 1&2	25%	execution just started by JUIDCO Ltd.	Within EC Validity period i.e. 19/06/2029
05	Open space and park development Phase 3 & 4	3%	agency selected by JUIDCO and execution is about to start	Within EC Validity period i.e. 19/06/2029.
06	River front development project	0%	PMC selected DPR is under progress.	Within EC Validity period i.e. 19/06/2029
07	No. of Trees planted	9836 Nos of trees are planted +		Within EC Validity period i.e. 19/06/2029

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43,563shrubs

Details of the Species For Green Area Development

Tree	
CommonName	Nos
DesertFanPalm	147
AkashNeem	420
IndianMahgony	255
FlameoftheForest	105
Gulmohar	119
Pilkhan	281
ArecaPalm	433
Ashoka	490
KanakChampa	41
SiameaCassia	239
Neem	14
Semal	7
RaphisPalm	102
Jarul/PrideofIndia	77
UmbrellaTree	29
DevilsTree	12
Maulsari	172
Kachanar(Pink)	484
CoralTree	73
Bakain	429
GoldenChampa	507
SitaAshok	624
SmallFlowerofCrapeMyrtle	271
NeeliGulmohar	277
YellowelderTecomaTREE	200
ThujaTree	600
Chinadoll	100
FoxtailPalm	67
ArecaPalmTree	50
Guvua Tree	231
MangoTree	250
Amaltas	825
BlueJagranta	1012
Junipers	397
Alstoniascholaris	496
Total	9836

Shrubs	
CommonName	Nos
DwarfUmbrellaTree	3096
Buddha'sValleyBamboo	688

Vanjai	2663
ChinaRose	593
CapePlumbago	1110
FireBush	4922
FicusPanda	3835
CrapeJasmine	1281
FicusBlack	1281
PurpleHeart	4793
Kamini	871
PinkPowderpuff	1560
Dracena-SongofIndia	2884
PeelaFicus	43
YellowBells	1152
YellowOleander	935
Kaner	884
CaribbeanCopperPlant	982
VariogatedCrotons	5290
Jatropha	300
Pandunus	220
Durantaerecta	500
MadhuKamini	1500
Arali(Nerium)plant	1700
CigyamPlant	280
EhuphoriaMili	100
HolyPlants	100
Total	43563

GroundCover	
CommonName	Nos
AlternantheraRed	33800
CrownofThrones	3840
SkyFlower	6400
Marigold	26800
ChickenWizard	13810
TasmamFlax-Lily	5500
Monodograss	27700
Poincettia	4500
Aspharagus	9360
GardenDahlia	5336
OphiopogonBlack	300
OphiopogonVariogated	1500
AlthernantheraGreen	3520
Wedelia	15600
AsiaticLily	15800
CradleLily	14467

GeraniumDouble	17414
TasmanFlaxLily	9400
AlternantheraRed	9900
Nasturtium	25194
RosePinkWhite	1276
SchneeflockeRose	2276
FerdinandPichardRose	2734
Florist'sDaisy	9054
Total	265481

Details of EMP budget incurred as on date:

COMPONENT	Incurred as On date in Lacs
SEWAGE TREATMENT PLANT (16 MLD)	4700
TREATED WATER RECYCLING INFRASTRUCTURE	1218
ARBERICULTURE DEVELOPMENT	845
SPV PLANT	5
ENVIRONMENT MONITORING	11.6
TOTAL	6779.6

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STATUTORY CLEARANCES

1	Land Docs	:	Owned land : Ranchi Smart City Corporation Limited
2	DFO Territorial	:	DFO, Ranchi Forest Division vide letter no. 2224, dated 24.07.2025 certified that the distance of reserved / protected forest is more than 250 meters from project site.
3	DFO Wildlife	:	DFO, Wildlife Division, Ranchi vide letter no. 466, dated 11.07.2025 certified that proposed project site is out side Eco Sensitive Zone of Palkot Wildlife Sanctuary.
4	CO certificate	:	The CO, Namkum, Ranchi vide letter no. 787 (ii), dated 13.05.2025 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani.
5	Previous Environmental Clearance (EC)	:	Previous EC granted by SEIAA, Jharkhand vide letter no. EC/SEIAA/2018-19/2089/2018/287, dated 20.06.2019 for the plot area 656.30 Acre (2655952 sqm) and built-up area 4693734.54 sqm.
6	Consent to Establish (CTE)	:	Consent to Establish from Jharkhand State Pollution Control Board has been obtained vide letter no. JSPCB/HO/RNC/CTE-5719859/2021/120, Dated 06/04/2021 and valid upto 10/08/2025, further renewal of CTE has been obtained vide application No. 23531465 Dated 13/08/2025 and valid upto 20/10/2027.

Based on the presentation made and information provided, the Committee decided that the proposal for Development of "Smart City Project" of M/s Ranchi Smart City Corporation Limited, Village :Latma, Jaganathpur, Kalyanpur, Kachnartoli, Hatia, Tehsil :Namkum, Distt. : Ranchi, Jharkhand is recommended for grant of amended EC as mentioned above. All other terms and conditions of the earlier EC letter no. EC/SEIAA/2018-19/2089/2018/287, dated 20.06.2019 shall remain the same.

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4. Proposed Residential Complex namely "Heaven, The Royal Empire" of M/s Shubh Shagun Developers, Village :Argora, Tehsil :Argora, Distt. : Ranchi, Jharkhand.

(Proposal no.: SIA/JH/INFRA2/ 568734 /2026)

Name of the consultant :Crystal Consultants, Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 26.04.2026.

Project Sector: 8(a) Building and Construction Projects , Category: B2.

Application for Environment Clearance (EC) as per EIA notification, 2006.

Item	Details			
Project Name	HEAVEN, THE ROYAL EMPIRE			
Location	Village : Argora Tehsil : Argora District: Ranchi State : Jharkhand			
Plot Area & its break – up (sq.m.)	Plot Area	11125.00 Sq.m.		
	Ground Coverage (20.38%)	2239.32 Sq.m.		
	Road	3503.74 Sq.m.		
	Paved Path	565.98 Sq.m.		
	Garden	1996.27 Sq.m.		
	Tree Cover	2606.15 Sq.m.		
	Other	213.54 Sq.m.		
Ground Coverage Permissible	35%			
Ground Coverage Consume	20.38% (2239.32 Sq.m.)			
FAR Permissible	3.00			
FAR Consume	2.99			
Total Built-Up Area & its break – up (sq.m.)	Floor Name	A (BLOCK) Proposed Built-up Area (Sq.mt.)	B (BLOCK) Proposed Built-up Area (Sq.mt.)	Total Proposed Built-up Area (Sq.mt.)
	Basement Floor	4573.72	0	4573.72
	Ground Floor	1443.96	795.36	2239.32
	First Floor	1339.46	775.77	2115.23
	Second Floor	1205.38	881.84	2087.22
	Third Floor	1339.61	881.84	2221.45
	Fourth Floor	1339.61	881.84	2221.45
	Fifth Floor	1339.61	881.84	2221.45

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	Sixth Floor	1339.61	881.84	2221.45
	Seventh Floor	1339.61	881.84	2221.45
	Eighth Floor	1339.61	881.84	2221.45
	Ninth Floor	1339.61	881.84	2221.45
	Tenth Floor	1339.61	881.84	2221.45
	Eleventh Floor	1339.61	881.84	2221.45
	Twelfth Floor	1339.61	881.84	2221.45
	Thirteenth Floor	1339.61	881.84	2221.45
	Fourteenth Floor	1339.61	881.84	2221.45
	Fifteenth Floor	1339.61	877.68	2217.29
	Sixteenth Floor	1339.61	811.86	2151.47
	Terrace Floor	0	189.06	189.06
	Total	27317.06	14913.65	42230.71
Number of Block	2 <input checked="" type="checkbox"/> Residential Block (A) <input checked="" type="checkbox"/> Residential Block (B)			
No. of Floor	Block A : B+G+16 Block B : B+G+17			
Height (m)	Block A : 53.13m Block B : 56.35m			
Building Configuration	Block A 1st Floor : 8 units of 3 BHK 2 nd Floor : 7 units of 3 BHK 3rd to 16th Floor : 8 units of 3 BHK on each floor i.e. 112 units Block B Ground Floor : 1 Retail Shop & 1 Community Hall 1st Floor : 3 Units of 4 BHK 2nd to 14th : 4 units of 4 BHK on each i.e. 52 units 15 th to 16 th : 4 Penthouse			
Population	1558			
Municipal Solid Waste	802.3 Kg/Day including 320.92 Kg/ Day Bio-Degradable and 481.38 Kg / Day Non-Bio-Degradable			
Parking	Car Parking : 291 Visitor Car Parking : 14 Two Wheeler : 209			
Power Requirement	Power Requirement	0.75 MVA (conventional)		
	Energy Saving	21.56%		
	Power Back-up	1000 KVA		
	Renewal Energy	637 kWh per day 5% of Net Energy Demand i.e. 0.59MVA		
RWH Pits	2 Nos of Recharge pit			
Total no. of Dwelling Units	Total 186 units including 127 3BHK & 59 4BHK Residential Units & 1 Retail Shop & 1 Community Hall			
Total Project Cost	Rs. 77.28 Crores.			
EMP Cost (Construction Phase)	Capital Cost: Rs. 24 Lakh			

	Recurring Cost: Rs. 11.00 Lakh
EMP Cost (Operational Phase)	Capital Cost: Rs. 137.50 Lakh Recurring Cost: Rs. 21.15 Lakh
Disaster Management	Separate Assembly Points will be marked for each section. Residents will be made aware of the safety protocols and escape routes.

LAND DETAILS

Khata no.	Plot no.
15	1457
114	1456
124	1458
260	1459

Co-ordinates of the project :

Point ID	Latitude	Longitude
1	23° 21' 38.90" N	85° 17' 39.46" E
2	23° 21' 36.47" N	85° 17' 40.27" E
3	23° 21' 39.24" N	85° 17' 40.58" E
4	23° 21' 33.97" N	85° 17' 40.83" E
5	23° 21' 40.25" N	85° 17' 40.92" E
6	23° 21' 34.08" N	85° 17' 41.71" E
7	23° 21' 35.38" N	85° 17' 41.83" E
8	23° 21' 38.22" N	85° 17' 42.32" E
9	23° 21' 40.00" N	85° 17' 42.44" E
10	23° 21' 39.20" N	85° 17' 42.84" E
11	23° 21' 37.64" N	85° 17' 42.89" E
12	23° 21' 35.39" N	85° 17' 42.99" E
13	23° 21' 35.95" N	85° 17' 43.09" E
14	23° 21' 38.03" N	85° 17' 43.35" E
15	23° 21' 37.81" N	85° 17' 43.56" E

POPULATION

Building Type	Configuration	DW Units / Area	NBC Norms	Population
Residential units	3BHK	127	6	762
	4BHK	59	7	413
<i>Floating Population 10%</i>				118
Ground Floor	Retail Shop	795.36	1 person per 3 Sq.m. of street floor	265
	Community Hall			27 fixed & 238 floating
Total				1558

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WATER & WASTEWATER

Water Demand

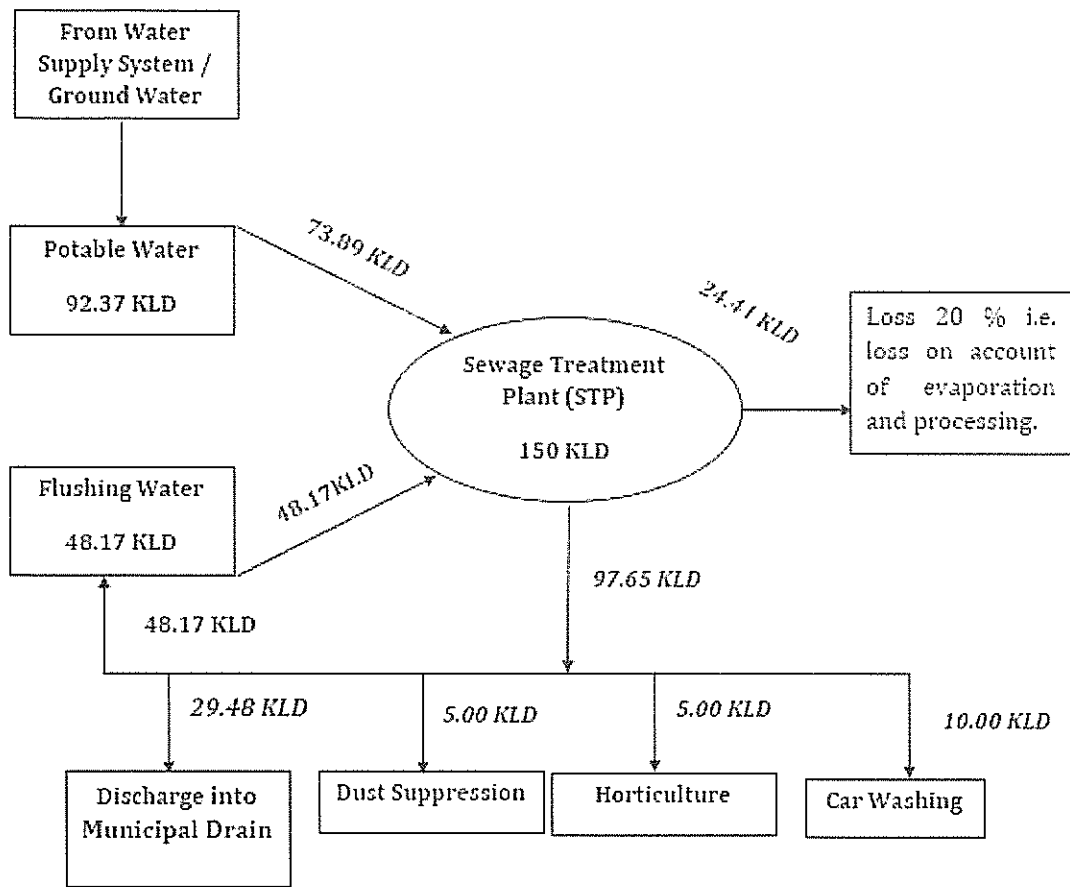
Residential Blocks	Domestic @70L Per head		Flushing @35L per head	
1293	90.51		45.25	
Commercial Units	Fix		Floating	
	Domestic @25L per head	Flushing @20L per head	Domestic @5L per head	Flushing @10L per head
265 <i>27 fixed & 238 floating</i>	0.67	0.54	1.19	2.38
Water Demand Total (UNIT : KLD)				
<i>Domestic</i>			92.37	
<i>Flushing</i>			48.17	
<i>Dust Suppression</i>			5.00	
<i>Landscaping</i>			5.00	
<i>Car Washing</i>			10.00	
Total Water Demand			160.54	
Total Fresh Water Demand			92.37	
Total Treated Water Demand			68.17	
Discharge to Municipal Drain			45.47	

Source: Fresh Water from Municipal Water Supply System / Ground Water & Treated Water from Sewage Treatment Plant (STP)

Waste Water Management

STP Calculation (KLD)			
Total Domestic Water	92.37	73.89	80% of Domestic Water is Waste Water
Total Flushing Water	48.17	48.17	100% of Flushing Water is Waste Water
Total Volume of Waste Water		122.06	
STP Capacity		150.00	
Waste Water Management (KLD)			
Volume of Treated Water from STP (i.e., 80% of Waste Water)			97.65
<i>Loss 20 % loss on account of evaporation, loss in conveyance and processing.</i>			24.41
Break-Up			
<i>Flushing</i>			48.17
<i>Dust Suppression</i>			5.00
<i>Horticulture</i>			5.00
<i>Car Washing</i>			10.00
Discharge to Municipal Drain			29.48

WATER BALANCE



CONNECTIVITY

Nearest Railway is Argora Railway Station, which is about 2.43 Km, Ranchi Railway Station is 4.22 Km away & Hatia Railway Station is 5.72 Km away from project site. Bypass Road (Argora – Harmu) which is 674m to the project site. Nearest Airport is Birsa Munda Airport which is about 5.44 Km.

Environment Sensitivity Area (Arial Distance)	
Waterbody	Dhurwa Dam (9.45 Km) Kanke Dam (5.00 Km) Subarnarekha River (9.50 Km)
Forest	Not within 250m
Eco Sensitive Zone	Not within 10 Km
Social Infrastructure	Delhi Public School – 760m St. Louis High School Harmu–480m St. Francis School Harmu –470m Notre Dame Convent Public School -406m Sanskrit College -2.0 Km Marwari Boys College – 2.56 Km St. Xavier’s College – 3.29 Km Harmu Hospital – 453m Berin General Hospital – 0.76 Km Sentevita Hospital -3.30 Km St. Barnabas Hospital – 3.70 Km

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	Sadar Hospital – 3.30 Km Doranda Hospital -3.8 Km RIMS Hospital – 6.1 Km
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SOLID WASTE MANAGEMENT

Construction Phase

Building Type	Municipal Solid Waste @0.2 Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
Labours @0.1 Kg/Day/Person	15 Kg / Day	6 Kg / Day	9 Kg / Da

Solid Waste generated during construction phase would include top soil, brick bats, pieces of reinforcing roads, pieces of wood boards & waste of other construction material, cans of paints electrical wire, etc.

Top-Soil would be separately stored at pre-defined location within the site & preserved for landscaping. Sub – Soil would be stored for reuse in road making, plinth filling, etc. E-Waste & Hazardous waste (cans of paints_ would be collected in separates containers. Recyclable wastes including bags, packing, pcs of steel rods sold to rag pickers.

C & D Waste

Constituents	Percentage (%)	Quantity (MT)	Disposal / Utilization Method
Soil, Sand and Gravel	34.99%	738.99	Reused on-site for backfilling, leveling& landscaping
Brick and Masonry	29.95%	632.41	Used for sub-base, filling & road works
Concrete	24.98%	527.48	Crushed and reused as aggregate (where feasible)
Metal	4.97%	104.95	Sold to authorized scrap recyclers
Bitumen	2.04%	43.07	Reused in road works / disposed through authorized agency
Wood	2.04%	43.07	Reused / handed over to authorized recyclers
Other	1.02%	21.57	Disposed as per standard practice
TOTAL	100%	2111.54 MT	

Operational Phase

Building Type	Municipal Solid Waste	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
Residential Building @0.6 Kg per Person per Day	775.8 Kg/Day	310.32 Kg/Day	465.48 Kg/D:
Commercial Building @0.1 Kg per Person per Day	26.5 Kg/Day	10.6 Kg/Day	15.9 Kg/D:
TOTAL	802.3 Kg/Day	320.92 Kg/Day	481.38 Kg/D:

Estimated quantity of municipal solid waste Community building & residential building.

During operational phase of buildings municipal solid waste would be generated. They would be stored in different colour bins.

Colour Bin	Waste Category	Quantity (kg/day)	Percentage (%)	Treatment / Disposal Method
Green	Biodegradable Waste	320.92	40% of MSW	Treated on-site through Organic Waste Converter (OWC) to produce compost for landscaping & horticulture use
Blue	Recyclable Waste (Plastic, Paper, Metal, Glass)	361.04	75% of Non-Bio-Degradable Waste	Handed over to authorized recyclers for material recovery
Black	Reject / Inert Waste	72.21	15% of Non-Bio-Degradable Waste	Handed over to Municipal Authority for scientific landfill disposal
Red	Hazardous / Sanitary Waste	24.07	5% of Non-Bio-Degradable Waste	Disposed through authorized agencies as per applicable rules
Yellow	E-Waste (Electrical, Batteries, Electronics)	24.07	5% of Non-Bio-Degradable Waste	Handed over to authorized e-waste recyclers as per E-Waste Management Rules 2016
TOTAL		802.3 kg/day		

Organic Waste Converter – Process & Capacity Details

Particulars	Unit	Quantity / Description
Total Organic Waste Generated	kg/day	320.92
Inert / Reject Material (≈5%)	kg/day	16.05
Net Waste Fed to OWC	kg/day	304.87
Bulking Agent (10–15%)	kg/day	30 – 46
Bio-culture / Enzyme Addition	kg/day	1.1 – 1.5
Total Input to OWC	kg/day	~340
OWC Processing Capacity	kg/day	500 (Selected – unchanged)
Retention Time in OWC	Hours	24
Temperature Maintained	°C	55–65
Moisture Content Maintained	%	55–60
Volume Reduction	%	60–65
Semi-processed Output	kg/day	~122
Curing Period	days	7–14
Final Compost Yield	kg/day	95 – 110
Compost Utilization	—	On-site landscaping
Rejects Disposal	—	Authorized municipal facility

An Organic Waste Converter of 350 kg/day capacity is proposed to handle 304.87 kg/day of biodegradable waste. The system ensures effective volume reduction, odor-free operation, and generation of nutrient-rich compost for in-house greenbelt development.

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ENERGY DEMAND

Unit : kWh

Category	Conventional Demand (A)	Energy Saving (B)	% of Energy Saving	Net Demand (C = A - B)
Dwelling units (DU)	41,16,105.00	21.75%	8,95,252.86	32,20,852.16
Pumps (60 kW)	3,50,400.00	15.00%	52,560.00	2,97,840.00
STP (150 KLD)	3,50,400.00	15.00%	52,560.00	2,97,840.00
OWC (350 Kg/Day)	6,64,300.00	15.00%	99,645.00	5,64,655.00
External/Common Lighting	1,35,526.25	60.00%	81,315.75	54,210.50
Lifts (passenger + stretcher)	3,03,680.00	30.00%	91,104.00	2,12,576.00
TOTAL	59,20,411.25	21.56%	12,72,437.59	46,47,973.66

Energy Conservation Measures

- ✓ Replacing 2 x 13W Down lighter in lift lobby with 17W LED.
- ✓ Replacing T5 Tubelight in staircase with 20W LED.
- ✓ Replacing 70W MHL Street lights with 40W LED.
- ✓ Providing 100% of Street lights & common lighting on SOLAR.
- ✓ Replacing normal lighting with LED for Landscape.
- ✓ Using Variable Frequency Drive (VFD) for Lift machines, we can save 10% of consumption.
- ✓ By using Regenerative type lifts, we can save 30% of Consumption.
- ✓ By using Energy efficient motors, we can save 10% of energy.

Total Energy Demand (Conventional)	59,20,411.25		
Total Energy Conservation (21.56 %)	12,72,437.59		
Total Energy Net Required	46,47,973.66		
Total Energy Generation (5% of net energy demand)	2,32,398.68		
EPI (initial)	140.19 kWh/m ² /year		
EPI (After applying energy conservation and renewable energy measures)	110.06 kWh/m ² /year		
Values in kWh per Year	MWh per Year	Values in kWh per Year	MWh per Year
59,20,411.25	5,920.41	59,20,411.25	5,920.41
46,47,973.66	4,647.97	46,47,973.66	4,647.97

Daily energy generation is 2,32,398.683 kWh Per Year / 365 Days i.e. 637 kWh per day.
 4 kWh Power generation per panel per day & 1 Solar Panel required 20 Sq.ft. area.
 Hence 160 Panel required & total area required for solar panel is 3200 Sq.ft.
 20% of total parking spaces to be equipped with EV charging points / infrastructure (conduits & wiring).

RAIN WATER RECHARGE PITS

2 Rainwater Recharge pits are proposed. Rain water from roof tops will be drained through rain water vertical down take pipes. These vertical down take pipes shall be located at suitable locations inside the shafts or periphery of the building. The terrace will be sloped.

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The down take pipes will be connected to the storm water network and then to Rainwater Harvesting Pits.

Catchment Area(m2)	Runoff Coefficient	Intensity of Rainfall in 24 hr. (mm)	Maximum Intensity of Rainfall hourly (mm/hr)	Retention Time - Runoff (m3/15 mins)	Runoff 60 minutes
2151.47	0.85	180	9	4.11	16.46
Volume of desilting Tank (m3)	Volume of Recharge Pit (m3 Per pit)	Total Volume (M3)	Runoff 60 minutes	No. of pits required	No. of pits proposed
4.5	3.375	7.875	16.46	2.09	2

Surface Type	Area (sq.m)	Runoff Co-efficient	Effective Area (sq.m)
Paved / Road Area	4,069.72	0.65	2,645.32
Lawn / Garden / Tree Cover	4,602.42	0.15	690.37
Total Effective Catchment Area			3,335.69

Hourly Rainfall = 9mm/hr
 Hourly Run-off = 3335.69 * (9/1000)
 = 30.02 m³ per hour

This run-off will be drained through a network of open drain & connected to Storm Water Municipal Drain

BUDGETARY PROVISION

Project Cost

Particulars	Amount (INR)
Construction Cost	73,91,22,700.00
EMP	1,37,50,000.00
Statutory Clearance & Other	2,00,00,000.00
Total	Rs. 77,28,72,700.00
	Rs. 77.28 Cr.

EMP Cost

EMP COST FOR CONSTRUCTION PHASE			
S. No	Description	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs / Annum)
1.	Construction Site to be enclosed with 3m high corrugated sheet	7.00	0.00
2.	Acoustic enclosure for DG Set	2.00	0.00

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3.	Air Fogging Gun & Hired Water Tanker for Dust Suppression	1.00	10.00
4.	Shed for storage of building material & Tarpaulin (Tirpal) Sheet	3.00	0.00
5.	Temporary Septic Tank	2.00	0.00
6.	Drinking Water Facility	0.50	0.00
7.	Storm Water Drainage System	2.50	0.00
8.	Arrangement (HDPE Colored bins) for storage of MSW	0.50	0.00
9.	PPE for Worker & Health Care	0.50	0.00
10.	Miscellaneous	5.00	1.00
Sub- Total (A)		24.00	11.00
EMP COST FOR OPERATIONAL PHASE			
S. No	Description	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs / Annum)
1.	500 sapling plantations	1.50	0.15
2.	Development of Lawn /park over 1996.27sq.m.	4.00	0.50
3.	150 KLD Sewage Treatment Plant (STP)	20.00	2.00
4.	350 Kg/ Day Organic Waste Converter (OWC)	10.00	1.00
5.	2 Rain Water Collection & Recharge Pit	5.00	0.50
6.	Solar Panel	55.00	2.00
7.	Additional stack height for DG Set	3.00	0.50
8.	Solid Waste Management	5.00	0.50
9.	Miscellaneous	10.00	3.00
Sub-Total (B)		113.50	10.15
Total (A+B)		137.50	21.15

ENVIRONMENT MANAGEMENT PLAN

During Construction Phase

Likely to impact environment activities	Mitigation Measure
Site Clearance <ul style="list-style-type: none"> ➤ Tree Felling ➤ Dismantling of existing structure & disposal of C & D Waste ➤ Grading & Leveling of Site ➤ Removal of Top Soil 	<ul style="list-style-type: none"> ✓ There are NO Trees at all at the site. ✓ Water sprinkling on identified site. ✓ Store top soil at pre-determined identified site & preserved.
Construction of Labour Camp	Local Labors will be hire
Installation, commissioning, and operation of construction equipment & machineries	<ul style="list-style-type: none"> ✓ Regular maintenance of machineries to minimize generation of noxious gases and dust. To ensure that construction equipments are

	<p>compliant to BIS Specification wherever applicable.</p> <ul style="list-style-type: none"> ✓ Also that they comply to applicable standard for emission prescribed by regulators
Earthwork Soil excavation for foundation work construction activities	<ul style="list-style-type: none"> ✓ Use excavated soil for plinth filling or Road construction. ✓ Surplus soil to be used in own mines for plantation purpose.
Generation of Solid Waste	<ul style="list-style-type: none"> ✓ Recyclable waste to be handed over to Rag Pickers.
Transport & Storage of construction materials	<ul style="list-style-type: none"> ✓ Trucks carrying fine materials to be covered with tarpaulins ✓ Trucks with Pollution under Control Certificate. ✓ Toe wall along the edge of soil / sand storage to be provided to arrest flow of material during monsoon. ✓ Temporary storage yard to be constructed for proper storage of construction materials.
Water Pollution	<ul style="list-style-type: none"> ✓ Sewage & Cess Pool is proposed to be constructed for labor. ✓ Drinking water facility to be provided. ✓ Collection of surface run-off from active construction area and channelize them to desiltation pond. Desilted water to be let off to natural drainage.
Hazardous Waste	<ul style="list-style-type: none"> ✓ Used oil from construction equipments will be collected in HDPE containers and handed over to authorized recyclers. ✓ Used cans of paints, varnished to be handed over to authorized recycler.
Noise Pollution (Noise generated by construction equipments)	<ul style="list-style-type: none"> ✓ Regular repair & maintenance of equipments. ✓ Providing acoustic barrier around periphery of construction site (3.5 m high GI Sheet). Boundary wall has already been constructed around the project area. ✓ DG set will be provided as per the

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	norms of CPCB.
Environment Monitoring	Regular environment monitoring will be done covering noise, air & water quality, during half yearly EC Compliance.
Arrangement of Water for Construction	✓ Create water storage tank to store water procured through water tankers / ground water abstraction.

During Operational Phase

Attributes	Environmental Issues	Impact	Mitigation Measure
Air Environment	Movement of Vehicles along internal Road	Generation of dust & noxious gases	<ul style="list-style-type: none"> ✓ Water sprinkling on internal Roads. ✓ Create grass cover on open spaces. ✓ Internal Roads to be paved. ✓ Avenue Plantation ✓ Plantation along periphery of project premises. ✓ Enforce speed limit for vehicle within project area.
Noise Environment	Movement of Vehicles along internal Road	Noise	<p>Ensure</p> <ul style="list-style-type: none"> ✓ Restrict speed limit to 20 KMPH. ✓ Enforce no Horn Zone.
Solid Waste Management	Generation of Municipal Solid Waste	Unhygienic Condition	<p>Collection of</p> <ul style="list-style-type: none"> ✓ Bio-Degradable Waste ✓ Recyclable Solid Waste ✓ Non-Recyclable Solid Waste ✓ Hazardous Waste

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			<p>Into a colored bin.</p> <p>Disposal</p> <ul style="list-style-type: none"> ✓ Recyclable waste to be handed over to rag pickers. ✓ Bio-Degradable & Non-Recyclable solid waste to be converted into fertilizer through OWC. <p>Hazardous waste to be handed to authorized hazardous Waste Management Facility.</p>
	Generation of Sludge from STP	Unhygienic Condition	<p>A sludge treatment & recovery plant will be installed along with the STP. The product may be utilized as fertilizer.</p>
Water Environment	Generation of Sewage	Waste Water	<ul style="list-style-type: none"> ✓ Provision of STP for treatment of waste water & recycling
	Storm Water	Surface run-off may carry suspended solid during monsoon	<ul style="list-style-type: none"> ✓ Provide a network of storm water drains terminating into desiltation tank. This tank would be connected to storm water drainage system.
	Roof top rainwater harvesting system	Loss of rainwater	<ul style="list-style-type: none"> ✓ Provide rainwater harvesting system with drawdown pipes & harvesting pits.

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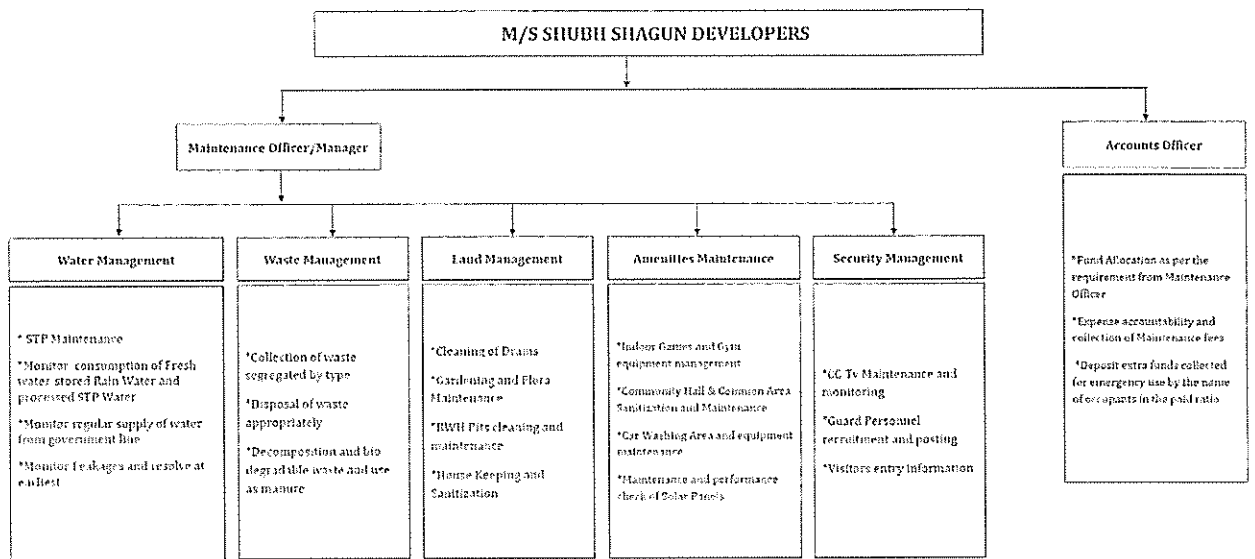
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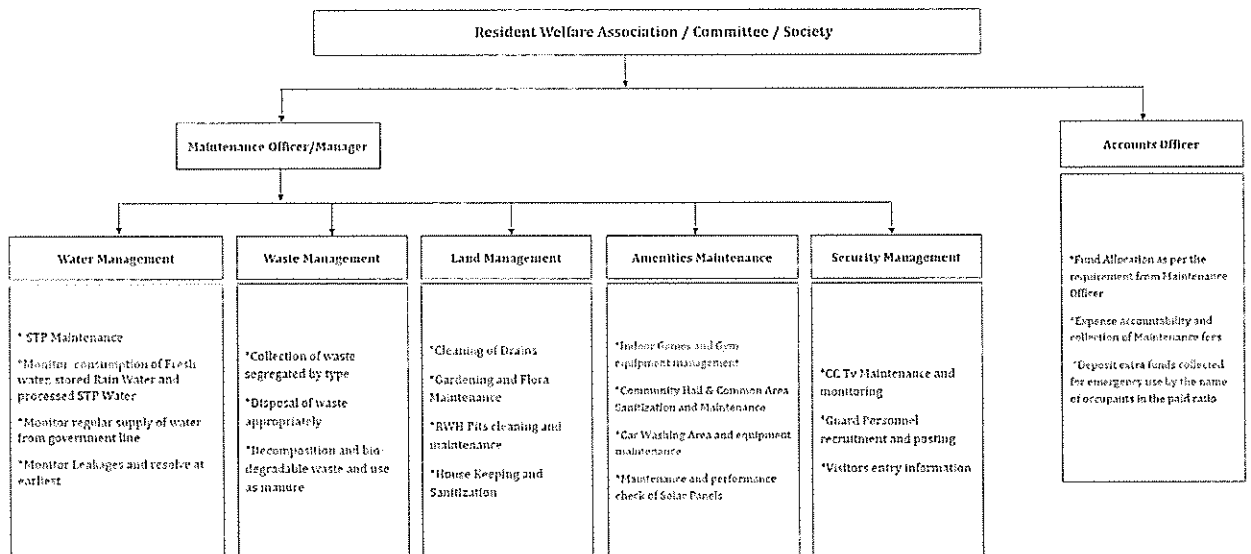


ORGANIZATIONAL STRUCTURE

During Construction Phase



During Operational Phase



STATUTORY CLEARANCES

1	Land Docs	:	Lease agreement :Shubh Shagun Developers for Development.
2	DFO Territorial	:	DFO, Ranchi Forest Division vide letter no. 2943, dated 11.10.2025 certified that the distance of reserved / protected forest is more than 250 meters from project site.
3	DFO Wildlife	:	DFO, Wildlife Division, Ranchi vide letter no. 661, dated 27.09.2025 certified that proposed project site is out side Eco Sensitive Zone of Palkot Wildlife Sanctuary.
4	CO certificate	:	The CO, Argora, Ranchi vide letter no. 766, dated 15.10.2025 has mentioned the plot no. of the project is not

			recorded as "Jungle - Jhari" in R.S. Khatiyan & Register II.
5	AAI NOC	:	Airport authority of India issued NOC vide NOC ID no. RANC /EAST /B/ 112425/2223134, dated 04.12.2025 valid up to 03.12.2033.
6	Building Plan approval	:	Building plan approved by Ranchi Municipal Corporation vide memo no. RMC/GH/0547/W35/2025, dated 21.12.2025.
7	Fire Department	:	Fire Advisory has been issued by Fire Department, Jharkhand, Ranchi, vide memo no. 6691/Tech./2025, dated 13.09.2025.
8	Environmental Safeguard from Jharkhand State Pollution Control Board (JSPCB)	:	Environmental Safeguard issued by Jharkhand State Pollution Control Board (JSPCB) vide its Memo No.: 768 dated : 19/03/2026.

Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Residential Complex namely "Heaven, The Royal Empire" of M/s Shubh Shagun Developers, Village :Argora, Tehsil :Argora, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure –V alongwith the following specific conditions and Environmental Safeguard as provided by Environmental Engineer –cum – Nodal Officer, JSPCB vide memo no. 768, dated 19.03.2026 is also included as Annexure – V (A):

- I. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "EkPed Ma KeNaam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- II. Permission shall be obtained for discharge of the excess effluent water to the concerned authority.
- III. Ground water to be drawn for use in the project only after obtaining permission from the Competent Authority.
- IV. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- V. All raw material to be stored only under covered shed.
- VI. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VII. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load.

- VIII. Trees should be developed & maintained not less than 15% of project area.
- IX. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- X. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- XI. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- XII. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- XIII. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- XIV. Sufficient number of EV fast charging points to be installed.
- XV. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.
- XVI. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management.

5. Daloraidih Stone Deposit of M/s Maa Stone Boulders (Partner : Shri Birendra Tiwari & Md. Shamsheer Alam), Village :Daloraidih, Tehsil :Deori, Distt. :Giridih, Jharkhand (0.809 Ha).

(Proposal no.: SIA/JH/MIN/ 558174 /2025)

The PAs vide e-mail dated 26.04.2026 requested for deferment of the project.

Hence, the proposal will be taken up for consideration after request by the PAs.



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6. Kharagdiha Stone Deposit of Md. Kaushar Alam, Village :Kharagdiha, Tehsil :Jamua, Distt. :Giridih, Jharkhand (0.759 Ha).

(Proposal no.: SIA/JH/MIN/ 568055 /2026)

Name of the consultant :Crystal Consultants, Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 26.04.2026.

Project Sector: 1(a) Mining of Minerals, Category: B2.

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity –11438 Cum per year or 30883 Tonnes per year

Project and Location Details:

Sl	Parameter	Details	
1	Project Name	: KHARAGDIHA STONE DEPOSIT	
2	Lessee:	: Proprietor: Md. Kaushar Alam	
3	Lessee Address	: Village- Aabgila Anjan Sayeed, Manpur, PO- Buniyadganj District- Gaya, Bihar	
4	Lease Area	: 0.759 Ha.	1.875 Acre
5	Type of Land	: Non-Forest Raiyati Land	
6	Project Cost	: Capital : Rs.16,90,300.00	
7	EMP Budget	: Capital : Rs. 2,30,100.00	Recurring : Rs. 3,12,790.00 per year
8	New or Expansion	: New	
9	Mineable Reserves	: 72574 Cum	195951 Tonnes
10	Mine Life	: 10 Years	
11	Man power	: 15	
12	Water Requirement	: 6.72 KLD	
13	Water Source	: By authorised hired water tankers	
14	DG Set / power	: -	
15	Crusher	: No crusher	
16	Nearest Water Body	: Usri river at a distance of 1.5km from lease area on north western side	
17	Nearest Habitation	: 580m (South)	
18	Nearest Rail Station	: Nearest railway stations is Jamua railway station which is about 6 Km from the applied lease area	
19	Nearest Airport	: Deoghar Airport (107 Km)	
20	Nearest Forest	: 1000m mentioned in DFO (T) certificate Letter No. 336 dated 01/03/2025.	

21	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 45 KM from the nearest Eco Sensitive Zone of Parasnath and Topchanchi Wildlife Sanctuary.
21	Road & Highways	:	SH-13- Jamua - Chatro Road at about 1Km on western side
22	Approach Road	:	At a distance of 20 meter
23	Cluster	:	Two mine exists within 500m radius namely; 1. M/S Sangam enterprises having area -2.37 Acres 2. M/S Mahadeo Stone Mines having area – 3.60 Acres Total - 7.845 Acres

CO-ORDINATES

Pillar ID	Latitude	Longitude
1	24° 24' 34.3186" N	86° 10' 59.9375" E
2	24° 24' 32.7722" N	86° 11' 02.3414" E
3	24° 24' 31.2341" N	86° 11' 04.7324" E
4	24° 24' 30.6657" N	86° 11' 04.3441" E
5	24° 24' 30.6317" N	86° 11' 03.8653" E
6	24° 24' 31.7056" N	86° 11' 01.0035" E
7	24° 24' 32.6079" N	86° 10' 58.5991" E

LAND DETAILS

Khata no.	Plot no.
18	2092 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, vide letter no. 931/M dated 07.10.2025.
2	CO	:	The CO, Jamua (Giridih) vide letter no. 383, dated 11.03.2025 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO Cluster	:	DMO, Giridihvide memo no. 1028/M, dated 19.11.2025 certified that 02 LoI (2.37 acre & 3.60 Acre) exists within 500 m radius from proposed project site and total area is 7.845 Acre.
4	DFO Wild Life	:	Divisional Forest Officer, Wildlife Division, Hazaribag vide letter no. 295, dated 25.02.2025 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi

		Wildlife Sanctuary.
5	DFO Territorial	: DFO, Giridih West Forest Division vide letter no. 336, dated 01.03.2025 certified that the distance of reserved / protected forest is 1000 m from proposed project site.
6	DSR	: The DMO, Giridih has certified vide memo no. 82/M, dated 02.02.2026 that this project is mentioned in approved DSR of Giridih District as a potential zone -2.
7	Gram Sabha	: BDO, Jamua (Giridih) vide letter no. 478, dated 09.04.2025 informed that Gram Sabha conducted on 25.03.2025.
8	Mine Plan Approval	: Mine plan approved by The Assistant Director, Geology, District Geological Office, Bokaro vide memo no. 241, dated 26.11.2025.
9	Qualified Person	: Shri Vidya Bhushan Mishra was present in the meeting and affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	: Semi-mechanized "OTFM" Method
2	Quarry Area	: 0.463 Ha.
3	Waste Generation	: 14258 cum
4	Stripping Ratio	: 1:0.14
5	Working Days	: 300
6	Benches: size & No	: 6m to 6m and 4 in numbers
7	Elevation of Mine	: 378 m AMSL to 376 m AMSL
8	Ground Level Elevation	: 376 m AMSL
9	Ultimate Working Depth	: 356 m AML
10	Water Table	: 340 m AMSL
11	Topography of Mine	: Hill Type of Topography
12	Explosive Requirement	: 13 kg/day
13	Diesel/Fuel requirement	: 62 litre/day

Production Details

Year	Production of stone (Cum)	Production of stone (Tonnes)	Overburden (Cum)	Intercalated waste (Cum)	Total Waste (Cum)
1st Year	5,565	15,026	2,088	293	2,381

2nd Year	5,896	15,918	0	310	310
3rd Year	5,951	16,067	0	313	313
4th Year	7,925	21,397	10,234	417	10,651
5th Year	11,438	30,883	0	602	602
Total	36,775	99,291	12,322	1,936	14,258

Land Use

Land Utilization	Existing Land use (Ha)	At the end of plan period (Ha)	At Conceptual period (Ha)
Excavation	0.257	0.461	0.463 (0.107ha backfilled, 0.130ha water reservoir & 0.226ha dead benches)
Road	0.0	0.002	0.0 (included under quarry)
Safety Zone Plantation	0.0	0.296 (0.122ha excavated quarry restored as S.Z.)	0.296
Total	0.257	0.759	0.759
Unused Area	0.502	0.00	0.00
Total Lease Area	0.759		

ENVIRONMENT MANAGEMENT

Green Belt Development

Location	Area (Ha.) or Length (m)	No. of Trees	Calculation Basis	Timeline
Safety Zone	0.296 Ha	474	1600 trees per hectare	1st Year
Approach Road	20 m	40	2m x 2m spacing	1st Year
Dead Bench	0.226 Ha	362	1600 trees per hectare	End of Mine
Backfilled area (level upto surface)	0.107 Ha	172	1600 trees per hectare	End of Mine
TOTAL		1048		

- As per MoEF&CC OM No. F.No. IA3-22/3/2024-IA.III dated 24.07.2024, 10% of the proposed green belt shall be developed under the "Ek Ped Maa Ke Naam" plantation campaign.
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary)

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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.

- Plantation on dead benches and on backfilled up area would be done during mine closure phase cost for such plantation is included in budget for mine closure.

Cost Estimates

The mining plan for the project has estimated the requirement of equipments needed for mining operations. The capital cost has been estimated on basis of this provision.

Estimated capital cost on plants & machineries are given below :

Budgetary Provision (in Lakhs) of Project Cost			Capital	Recurring
Particulars				
Land			0.00	46888.17
Infrastructure			700000.00	0.00
Mining Equipment			0.00	60,00,000.00
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Loader	1	600000		
Dumper	1	2000000		
Rock Breakers	1	1000000		
Compressor / Wagon Drill	1	1000000		
Water Sprinkler	1	600000		
Excavator	1	800000		
Water Facility for Domestic Purpose "0.6" KLD (Annual Water Demand "180"KL @4L per Tanker, total number of tanker required ("45") and per tanker cost @Rs. 500)			0.00	22500.00
Statutory Clearances			500000.00	0.00
Mine Closure Cost for Plantation of "534" number of tree @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance			160200.00	0.00
Mine Closure Cost for fencing around mine			100000.00	0.00
Environment Management Plan (EMP) Cost			230100.00	312790.00
Total			1690300.00	6382178.17

Environment Management Budget

Budgetary Provision (in Lakhs) of Environment Management Plan (EMP)			Capital	Recurring
Particulars				
Plantation of "514" number of trees @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance			154200.00	25700.00
Water Facility for Horticulture "3.084" KLD & Dust			0.00	229500.00

Suppression "3.036" KLD (Annual Water Demand "1836"KL @4L per Tanker, total number of tanker required ("459") and per tanker cost @Rs. 500)		
Garland Drain & Desiltation Pond	75900.00	7590.00
Environment Monitoring & Compliance	0.00	50000.00
Total	230100.00	312790.00

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

S. no	Monitoring Parameters	No. of Locations	Frequency of Monitoring
1	Ambient Air: Ambient Air Quality at appropriate location for PM10, PM2.5, SO2, NOx in the vicinity of the mine area. In the surrounding area covering project site only.	3 Stations	Six Monthly
2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise: Day & Night level Noise Monitoring.	4 stations	Six Monthly
4	Soil: Soil Monitoring, Qualitative and quantitative testing/analysis to check the soil fertility, porosity, texture, water holding capacity, etc.	2 station	Six Monthly

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	During plan period, a total of 14258 cum of solid waste will be generated. This solid waste will be stored in external dump on south side of lease area. At the conceptual stage, all solid waste generated during mining operation will be backfilled.
Air Quality Management	<ul style="list-style-type: none"> • Wet drilling and use of sharp drill bits to minimize dust generation. • Controlled blasting using optimum explosive charge during favorable weather conditions. • Regular maintenance of diesel equipment and vehicles to reduce emissions. • Water sprinkling on haul roads, loading/unloading points, and working areas. • All transport vehicles will have valid PUC certificates. • Greenbelt and roadside plantation to act as dust and noise barriers.
Water Quality	<ul style="list-style-type: none"> • Mining will be confined only above the Ground Water Table (GWT).

Management	<ul style="list-style-type: none"> • Rainwater accumulated in the pit will be collected and pumped out regularly during monsoon. • Settling sump will be provided to desilt pumped out of mine-pit and collected through garland drain before discharge into natural drainage. • Garland and foot drains will be constructed around the quarry to control surface runoff. • Sewage from rest shelters will be treated through septic tank-soak pit systems. • Foot drain would be provided around the external dump, if any.
Noise Quality Management	<ul style="list-style-type: none"> • Mining activities will be restricted to daytime and carried out with controlled blasting techniques. • Acoustic enclosures and mufflers will be provided for drilling and DG set operations. • Regular maintenance of mining machinery to minimize vibration and noise. • Greenbelt development around the lease boundary to attenuate noise propagation. • Use of delayed blasting technique to minimize the adverse impact of vibration.
Soil Quality Management	<ul style="list-style-type: none"> • Topsoil will be carefully removed and stored separately for future use in plantation and reclamation. • Garland drains and retaining walls will prevent soil erosion and siltation. • Spillage of oil or fuel will be avoided; impervious flooring and oil traps provided near storage areas • Post-mining, the area will be rehabilitated using stored topsoil and native vegetation
Flora & Fauna management	<ul style="list-style-type: none"> • No tree felling will be undertaken without obtaining permission from the competent authority. • Greenbelt and plantation will be developed using native species along approach roads and lease periphery (7.5m Safety Zone). • Dust suppression measures will minimize impact on surrounding vegetation
Socio Economy:	<ul style="list-style-type: none"> • Priority employment to local people in mining and ancillary activities. • Community development initiatives such as tree plantation drives, road maintenance, and local infrastructure support. • Awareness programs on safety, hygiene, and environmental protection
Monitoring & Reporting:	<ul style="list-style-type: none"> • Periodic monitoring of air, water (ground & surface), noise, and soil quality as per CPCB and SPCB guidelines. • All monitoring reports will be submitted to statutory authorities as per the compliance schedule. • Corrective measures will be taken immediately if any deviation from standards is observed.
Risk & Hazard	<p>Activities which are likely to create risk are: Temporary Storage of Explosives, Charging of Explosives, Blasting,</p>

	<p>Drilling, Bench Formation, Loading / Unloading, Transportation</p> <p>Proposed Preventive measures:</p> <ul style="list-style-type: none"> ▪ Overall slope angles of benches will be maintained at 45°. ▪ Unmanageable heights are not created. ▪ Loose sides are properly dressed. ▪ No loose stone or debris will be permitted to remain on the top of the bench or side of any excavation (Regulation 106(4) of MMR 1961). ▪ No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961) ▪ It will be ensured that the drilling equipment is suitable for the job. ▪ The person in charge of the drilling machine is competent to carry out the drilling operation; part of the training includes instructions to always face towards the open edge of the bench so that any inadvertent backward step is away from the edge. ▪ Provision of portable rail fencing between the drilling operations and the edge of the bench ▪ Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear. ▪ Restricted access to the area to all persons except those necessary for the drilling operation. ▪ Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation. ▪ In case due to any reason, wet drilling is not possible (due to non-availability of water), exhaust/ vacuum system will be provided which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose. ▪ Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
<p>Blasting & Handling of Explosives</p>	<ul style="list-style-type: none"> ▪ Blast hole geometry shall be properly designed. ▪ Blast site shall be wetted before and after blasting operations are completed. ▪ Only optimum quantity of permissible explosives shall be used so that the vibrations do not damage the structures/houses if the quarrying operations are close to human habitation. ▪ Blasting shall be conducted only during favourable weather conditions and only during the day time and permissible hours. ▪ While carrying out blasting operations near habitations, wide publicity will be given in the local area through announcement and other available media so that local people become aware of the blasting activities being undertaken in the area and take appropriate precautions. ▪ The vibrations should be monitored periodically in consultation with

	<p>the local Mining authorities.</p> <ul style="list-style-type: none"> ▪ Use of explosives is specialist work. Planning for a round of shots is necessary to ensure that the face is properly surveyed, holes correctly drilled, direction logged, the weight of explosive suitable for good fragmentation and the continuity of the initiator are but a few of the steps necessary to ensure its safe use. ▪ Proper and safe storage of explosives in approved and Licensed Magazine. ▪ Proper security system to prevent theft/ pilferage, unauthorized entry into Magazine area and checking authorized persons to prevent carrying of match box, lights, mobile phones, cigarette or Bidi etc. will be put in place. ▪ Explosives shall be conveyed in special containers. ▪ Explosives and detonators shall not be carried in the same container. ▪ The holes which have been charged with explosives will not be left unattended till blasting is completed.
Health Hazards	<p>Health hazards should be interpreted as being harmful dust and noise which is emitted during surface mining operations. All suitable steps and precautions will be undertaken to ensure minimum health hazard. Provision of use of Personal Protective Equipment (PPE) will be kept. The PPE shall be of good make and quality, wherever possible ISI certified, suitable for the hazard e.g. a dust respirator fitted with the correct filter to capture the particulate hazardous dust and maintained to recommended standards. As personal protective equipment only affords limited protection it will only be used as a last resort and as an interim arrangement until other steps are taken to reduce the risk of personal injury to an acceptable level</p>
Accident Prevention	<ul style="list-style-type: none"> ▪ Mine road shall be made smooth regularly with a road roller. ▪ Mine road will be made sufficiently wide to keep two-way traffic. Regular water sprinkling will be done on mine road and haul road to avoid suspension of dust. ▪ All transportation within the mine lease area should be carried out directly under the supervision and control of management. ▪ The vehicles will be maintained in good working condition and checked thoroughly at least once a month by the competent person authorized for the purpose by the management. ▪ Navigation signs will be provided at each and every turning point up to the main road (wherever required). ▪ To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating.

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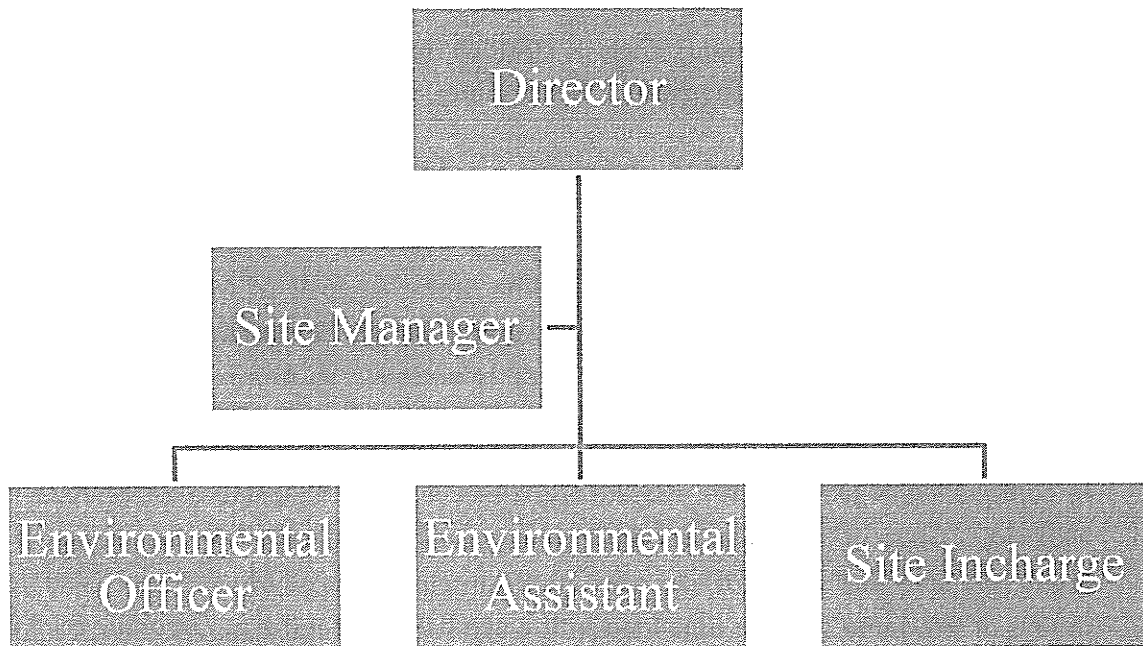
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Organizational Structure of Environment Management Cell:



EMP Cell structure

The EMP Cell is committed to ensuring environmental sustainability and compliance with regulatory requirements for the Stone Mining Project. With a clear structure, roles, and responsibilities, the EMP Cell is equipped to manage environmental impacts and promote sustainable practices.

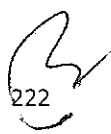
Undertaking submitted affirming:

- 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 than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.

- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

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 Kharagdiha Stone Deposit of Md. Kaushar Alam, Village :Kharagdiha, Tehsil :Jamua, Distt. :Giridih, Jharkhand (0.759 Ha)is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – IIalong with following specific conditions :

- I. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "EkPed Ma KeNaam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- II. The Deputy Commissioner through District Mining Officer will ensure that the mines owner of the respective leases to complete the plantation and maintenance in a time bound manner.
- III. Suitable plant species of not less than 2 M height to be planted equal to twice the area of saplings proposed in Safety zone. This is to be planted in land available near mines and outside safety zone. This will be in addition to plantation in safety zone. Newly planted saplings to be maintained for minimum 3 years with Geo-Tagged photographs.
- IV. Dedicated water tanker to be provided for mine. The tanker to be used for spraying water on haul road and for irrigating newly planted saplings only. Sprinkling to be done such that the haul road is kept moistened all the time with Geo-Tagged photographs.
- V. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests .Summary findings of same to submitted along with 6 monthly compliance.
- VI. Ensure use of Quality PPEs equivalent not less than 3M make. Records of same to be maintained and submitted with 6 monthly compliance report with Geo-Tagged photographs.
- VII. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- VIII. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.



7. Salbonapahar Stone Mine of M/s Jyoti Construction and Engineering Private Limited (Partners : Shri Ranjit Kumar & Shri Surjeet Kumar), Village :Salbonapahar, Thana :Shikaripara, Distt. : Dumka, Jharkhand (2.808 Ha).

(Proposal no.: SIA/JH/MIN/ 573565 /2026)

Name of the consultant :Sathi Planners Pvt. Ltd., Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 26.04.2026.

Project Sector: 1(a) Mining of Minerals, Category: B1.

Application for Environmental Clearance (EC) after Terms of Reference (ToR).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 123rd meeting held on 07.05.2025 - 11.05.2025 and SEIAA, Jharkhand has approved the ToRs in 123rd meeting held on 09th&10th June, 2025. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2025-26/3678/2025/223, dated 20.06.2025. The final EIA / EMP submitted by PP to SEAC on 23.04.2026.

EC Application for: Proposed Capacity – 90,001 cum/annum or 2,43,003 TPA.

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Salbonapahar Stone Mine
2	Applicant	: M/s Jyoti Construction and Engineering Pvt. Ltd Partners: 1. Shri Ranjit Kumar 2. Shri Surjeet Kumar
3	Lease Address	: Mouza– Salbonapahar, Thana No.- 07, Thana- Shikaripara, District- Dumka, State- Jharkhand
4	Lease Area	: 2.808 Ha Acres- 6.94 Acres
5	Cluster Details	: 14 numbers of mines including project site having total cluster area 78.33 Acres (31.69 Ha.)
6	Type of Land	: Non-Forest Raiyati Land
7	Project Cost	: Rs. 132.39 Lakhs
8	EMP Budget	: Capital: Rs. 10.54 lakhs Recurring: Rs. 5.38 Lakh / year
9	New or Expansion	: New
10	Mineable Reserves	: cum.:4,03,470cum Tonnes: 10,89,368 tones
11	Mine Life	: 5 years
12	Man power	: 28
13	Water Requirement	: 12.167 KLD {Manpower (28 nos.)- 0.420 KLD, Plantation (2482 nos.)- 8.217 KLD, Dust Suppression- 3.530 KLD}
14	Water Source	: By authorised hired water tankers
15	DG Set / power	: 20 KVA (Emergency purpose)
16	Crusher	: Yes, 200 TPH Mobile crusher
17	Nearest Water Body	: Brahmani River- 6.58 km. in N direction of mine site.
18	Nearest Habitation	: Salbonapahar Village in South West direction

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19	Nearest Rail Station	:	PakdahaHarinsingRailway station, approx. 5.0 km in N direction.
20	Nearest Air Port	:	Deoghar Airport, approx. 92 km towards NW direction
21	Nearest Forest	:	More than 500m,(720 M) as per the Divisional Forest Officer NOC, Letter No. 3441 dated 09.11.2023.
22	Road & Highways	:	The length of the approach road is 0.353 km, after which it connects to NH-114A (Dumka–Rampurhat) at 6.16 km in NW direction.
23	Approach Road	:	The distance of Approach Road is 353 m.
24	SE Budget		Rs. 6.1 Lakh (Need Based Survey)
25	Eco Sensitive Zone (ESZ)		Parasnath and Topchanchi Wildlife Sanctuary – 160 km in SW direction.

CO-ORDINATES

Point ID	Latitude	Longitude
1	24° 11' 22.66028411" N	087° 34' 09.55847928" E
2	24° 11' 22.26236785" N	087° 34' 09.48683970" E
3	24° 11' 21.87353124" N	087° 34' 09.02294992" E
4	24° 11' 21.09582691" N	087° 34' 08.99766104" E
5	24° 11' 20.89672058" N	087° 34' 08.68017741" E
6	24° 11' 20.76692921" N	087° 34' 08.57406704" E
7	24° 11' 20.71079088" N	087° 34' 08.41006120" E
8	24° 11' 21.09176188" N	087° 34' 07.40371754" E
9	24° 11' 21.47273104" N	087° 34' 06.39737573" E
10	24° 11' 21.75336746" N	087° 34' 06.33675683" E
11	24° 11' 21.81297935" N	087° 34' 05.46116110" E
12	24° 11' 21.82158268" N	087° 34' 05.20294491" E
13	24° 11' 22.95640688" N	087° 34' 05.21914023" E
14	24° 11' 24.15307005" N	087° 34' 05.23621927" E
15	24° 11' 25.44288185" N	087° 34' 05.25462912" E
16	24° 11' 26.97612214" N	087° 34' 05.27651005" E
17	24° 11' 28.50936559" N	087° 34' 05.29839125" E
18	24° 11' 28.42306112" N	087° 34' 05.48112896" E
19	24° 11' 28.06373623" N	087° 34' 06.16194943" E
20	24° 11' 28.17383929" N	087° 34' 06.42795097" E
21	24° 11' 28.16485709" N	087° 34' 06.54436468" E
22	24° 11' 28.44826345" N	087° 34' 06.74358915" E
23	24° 11' 28.62323070" N	087° 34' 06.80259160" E
24	24° 11' 29.07689415" N	087° 34' 07.17725190" E
25	24° 11' 29.32207753" N	087° 34' 07.31342673" E
26	24° 11' 29.43003516" N	087° 34' 07.58174855" E
27	24° 11' 29.49843459" N	087° 34' 08.14568369" E
28	24° 11' 29.70336328" N	087° 34' 08.19084696" E
29	24° 11' 29.76710387" N	087° 34' 08.85724299" E
30	24° 11' 29.78539305" N	087° 34' 09.42929669" E
31	24° 11' 28.70678652" N	087° 34' 09.43753171" E
32	24° 11' 27.62817668" N	087° 34' 09.44577028" E

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33	24° 11' 26.43094780" N	087° 34' 09.45491434" E
34	24° 11' 25.21705479" N	087° 34' 09.46418650" E
35	24° 11' 23.88806088" N	087° 34' 09.47433725" E
36	24° 11' 22.66476435" N	087° 34' 09.48367760" E

LAND DETAILS

Khata no.	Plot no.
11	147 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Dumka vide letter no. 972/M, dated 17.08.2024.
2	CO	:	The CO, Shikaripara vide letter no. 1331/Ra., dated 02.12.2023 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyana & Register II.
3	DMO Cluster	:	DMO, Dumka vide memo no. 332/M, dated 10.02.2025 certified that 04 LoI (3.69 Acre, 1.98 Acre, 4.01 Acre & 5.71 Acre) and 10 other mining lease area (4.63 Acre, 3.40 Acre, 6.12 Acre, 5.40 Acre, 6.16 Acre, 4.62 Acre, 7.00 Acre, 7.39 Acre, 4.01 Acre & 7.27 Acre) exists within 500 meters radius from proposed project site and total area is 78.33 Acre.
4	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 2953, dated 26.12.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Dumka Forest Division vide letter no. 3441, dated 09.11.2023 certified that the distance of reserved / protected forest is 720 meters from proposed project site.
6	DSR	:	This project is mentioned in approved DSR of Dumka District (Page no. 291 & Sl. No. 54).
7	Gram Sabha	:	Gram Sabha conducted on 26.10.2023.
8	Mine Plan Approval	:	Approved by District Mining Officer, Dumka vide Letter No. 1419/M, dated 20.12.2024.
9	Baseline Monitoring Period	:	March 2025 to May 2025
10	Public Hearing	:	Public hearing conducted on 29.01.2026.

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12	Qualified Person	:	Shri Malay Kumar Mukhopadhyay was present in the meeting and affirmed that the mine plan has been prepared by him.
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Working Details

1	Mining Method	:	Opencast Mechanised method
2	Quarry Area	:	1.841 Ha
3	Waste Generation	:	93,829 cum.
4	Stripping Ratio	:	1:0.2
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	265 m AMSL to 245 m AMSL
8	Ground Level Elevation	:	245 m AMSL
9	Ultimate Working Depth	:	230 m AMSL
10	Water Table	:	200 m AMSL (Source: JSAC Ground water Prospect Map)
11	Topography of Mine	:	The area represents a hillock land with rock mass of Basalt
12	Explosive Requirement	:	80.19 kg/day Slurry explosives
13	Diesel/Fuel requirement	:	HSD - 343 litre/day (102.9 KL/year)

Production Details

Year	Production of Stone		Removal of OB
	In cum	In tones	Cum
1st	85779	231604	93829
2nd	90001	243003	0
3rd	82997	224091	0
4th	75896	204920	0
5th	68796	185750	0
Total	403470	1089368	93829

Land Use

Si. No.	Pattern of Utilization	Present/Existing land use pattern in (acres.)	Proposed Land use for current plan period (acres.)	Land used at the conceptual stage i.e. end of mine life in (acres.)	Area to be converted in the conceptual period.
1	Mining Activities	0.000	1.841	1.841	Water Body
	Settling tank	0.000	0.023	0.023	Water Body
2	Mobile	0.000	0.234	0.000	-

	crusher				
3	Garland drain	0.000	0.037	0.037	-
4	Dumping	0.000	0.171	0.171	Plantation
5	Safety zone	0.000	0.502	0.502	Plantation
6	Unutilized	2.808	0.000	0.234	Plantation
Total		2.808	2.808	2.808	-

Green Belt Development

Year	Location	No. of Plants	Area to be Covered (Ha.)	Species of Plant
1 st Year	Within 7.5m in Safety Zone Area	1255	0.502	Mixed plants i.e. Mango, Guava,
Conceptual	Dumping	428	0.171	Saguan, Jackfruit,
	Unutilized	585	0.234	Gulmohar, Teak,
1 st Year	Approach Road	471	353 m	Gamhar, etc. as available in the locality
Total		2739	0.907 Ha.	

Note-2739 tree proposed to be planted out of which 10% plantation will be carried out i.e. (273 trees) as per MoEF&CC, Govt. of India Scheme "Ek Ped Ma Ke Naam".

- 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.

BUDGETARY PROVISION (IN LAKHS) PROJECT COST

Sl. No.	Head	Capital Cost Rs. in Lakhs	Recurring Cost Rs. in Lakhs
1.	Government Revenue (Dead Rent& Royalty)	28	--
2.	Cost of Infrastructure	5.0	0.5
3.	Mining Machineries owned by applicant	82.35	--
	a. Wagon Drill -01		
	b. Compressor-01		
	c. Tippers 20 tons-03		
	d. Diesel Pump-01		
	e. D.G. Set-01		
	Mining Machineries on hired basis (Excavator- 01, Tipper- 05)	--	24.5
4.	Lease Agreement (lump-sum)	--	1.74
5.	Statutory Clearance & Others	5.0	-
6.	Contingency	12.04	-

Total	132.39	26.74
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ENVIRONMENT MANAGEMENT PLAN (EMP)

Sl.No.	Category	Capital Cost In lakhs	Recurring Cost In lakhs
1	Water facility for Dust Suppression, watering plants etc. (Rs. 800 per Tanker)	-	2,40,000
2	Plantation 468 X 800 = Rs 3,74,400 (Gabion Plantation along approach road) 1451 X 400 = 580400 (Plantation within lease area) (also includes Fertilizer, Pesticides, Maintenance)	9,54,800	95480
3	Fencing	1,00,000	-
4	Environmental Monitoring (One Day Monitoring) <ul style="list-style-type: none"> • Ambient Air 24 hrs (3 point) - Rs.27,270 • Ground Water (2 point) - Rs.12,420 • Noise 24 hrs (3 point) -Rs.21,000 Soil (3 point) - Rs.40,920 • Total -Rs. 1,01,610 (Per Season) At least two seasons in a Year -Rs. 1,01,610 x 2 = Rs. 2,03,220 Source: Central Pollution Control Board Notification, New Delhi, the 23rd February, 2022	-	2,03,220
5	Public Hearing Budget	4.0 Lakhs	13.60 Lakhs
Total		14.54 Lakhs	18.98 Lakhs

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

S. no	Monitoring Parameters	No. of Locations	Frequency of Monitoring
1	Ambient Air: Ambient Air Quality at appropriate location for PM10, PM2.5, SO2, NOx in the vicinity of the mine area. In the surrounding area covering project site only.	4 Stations	Six Monthly
2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground	Six Monthly

		water	
3	Noise: Day & Night level Noise Monitoring.	4 stations	Six Monthly
4	Soil: Soil Monitoring, Qualitative and quantitative testing/analysis to check the soil fertility, porosity, texture, water holding capacity, etc.	2 stations	Six Monthly

Summary of Baseline Data:

Monitoring season – March to May 2025 for Summer season.

Type	Parameter
AAQParameterat8locations	PM10 = 41.70 µg/m ³ to 72.60 µg/m ³ PM2.5 = 21.40 µg/m ³ to 54.10 µg/m ³ SO ₂ = 5.16 µg/m ³ to 12.30 µg/m ³ NO ₂ = 13.50 µg/m ³ to 31.80 µg/m ³ CO = 0.110 mg/m ³ to 0.42 mg/m ³
Noisequalityat7 locations	Daytime: 50.5 to 57.9 dB(A). Night time: 41.4 to 51.4 dB(A)
Surfacewaterat2locations	pH – 6.74 to 7.02 TDS – 253 to 284 mg/l Alkalinity – 53.4 to 53.6 mg/l Fluoride - 0.16 to 0.21 mg/l BOD – 1.84 to 1.82 mg/l
Groundwaterat6locations	pH – 6.71 to 7.51 TDS - 275 to 368 mg/L Turbidity - <1.0 NTU Alkalinity – 78.6 to 96.4 mg/L Hardness – 146 to 172 mg/L Chloride – 27.3 to 45.9 mg/L Fluoride - 0.13 to 0.49 mg/L Calcium – 46.1 to 63.4 mg/L Iron - 0.10 to 0.19 mg/L
Soil at 5 locations	pH – 6.82 to 7.21 Conductivity – 1645 to 1753 µs/cm Bulk Density - 1.39 to 1.48 gm/cc Moisture Content – 18.3% to 23.1% Water holding capacity – 29.6 to 35.8%

Public Hearing (Action Plan) –

Sl. No.	Issue Raised	Commitment by Project Proponent (Brief)	Time Frame	Funds to be Spent	
				Capital (in Lakhs)	Recurring (in Lakhs)

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1	Sprinkling of water. Arrangement for education. Tree plantation	Proponent assured that regular sprinkling of water will be done. Arrangement for education and plantation will be done under CSR activities.	<ul style="list-style-type: none"> • Sprinkling of water- Regular • Education – Within 6 months • Plantation – Immediate. 	<ul style="list-style-type: none"> • Under CSR activities 	<ul style="list-style-type: none"> • Rs. 1.25 Lakhs • Rs. 1.80 Lakhs
2	Employment should be provided to villagers.	Proponent assured that as per the availability and requirement local people will be hired. Under CSR activities financial support will also be provided as per need.	<ul style="list-style-type: none"> • Employment – Immediate. Financial support – When required.	<ul style="list-style-type: none"> • Under CSR activities. 	<ul style="list-style-type: none"> • Rs. 5.0 Lakhs
3	Deep Boring Arrangement of Teachers in village schools. Boundary should be created around the mine.	Project proponent assured that one day before the public hearing a deep borewell has been already done, and for arrangement of teacher's respective department has been requested. Boundary will be done around the mine lease and trees will be planted.	<ul style="list-style-type: none"> • Deep boring- already done • Arrangement of teachers- Immediate • Boundary construction – Within 6 months 	<ul style="list-style-type: none"> • Rs. 1.0 Lakhs • Mentioned above 	<ul style="list-style-type: none"> • Rs. 1.0 Lakhs
4	Village road should be constructed.	Proponent assured that village roads will be repaired time to time.	Rural road repair & maintenance – Immediate	<ul style="list-style-type: none"> • Rs. 3.0 Lakhs 	<ul style="list-style-type: none"> • Rs. 0.75 Lakhs
5	Arrangement of Teachers in village schools	Proponent assured that arrangement of tuition teacher will be done for educating the children also the concerned department has been requested for arrangement of	<ul style="list-style-type: none"> • Education facilities- immediate 	--	<ul style="list-style-type: none"> • Rs. 2.0 Lakhs

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		teacher in village school.			
6	For health issue medical camps and arrangement of ambulance should be done.	Proponent assured that under CSR activities medical camp will be provided. And from the vehicles parked at mine will be provided for ambulance facility.	<ul style="list-style-type: none"> Medical Camp- Within 6 months Ambulance facility- When required.	--	<ul style="list-style-type: none"> Rs. 1.8 Lakh
7	Financial support for marriages.	Proponent assured that Under CSR financial support will be provided for marriages.	Financial support – when required	Under CSR activities.	--
Total				4.0 Lakhs	13.60 Lakhs



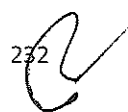


SE Need based Survey detail (included in CSR)

Zone	Coverage & Survey Details	Key Socio-Economic Observations	Workforce Characteristics	Priority Needs (Focused)	Proposed Budget		Implementation Timeline
					Capital (₹ Lakhs)	Recurring (₹ Lakhs)	
0-2 km	Villages: 5 Households surveyed: 18 Population covered: 98 FGDs Conducted: 1	Balanced gender composition with presence of children and vulnerable groups. Proximity to mine increase's sensitivity to dust, traffic and occupational health issues.	Low workforce participation (~35%); dominance of informal and "other" occupations indicating livelihood instability.	<ul style="list-style-type: none"> Preventive healthcare & health check-ups Local skill development linked to mine & allied activities 	2.9	1.20	Short-term ongoing (Year 1-2)
2-5 km	Villages: 19 Households surveyed: 31 Population covered: 146 FGDs Conducted: 0	Moderate literacy levels with gender disparity; limited access to secondary education and structured training	Mixed workforce pattern; dependence on agriculture and daily wage labour.	<ul style="list-style-type: none"> Education support (secondary level / scholarships) Agricultural productivity support (inputs, 	3.2	1.50	Medium-term (Year 2-3)

		facilities.		awareness)			
Total (0-5 km)					6.1	2.7	-

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	<ul style="list-style-type: none"> • Solid waste management is important from both aesthetic and environmental points of view and will be managed as per the Solid Waste Management Rules, 2016. • An O.B. (Overburden) dump area of 0.171 ha has been provided within the lease area. • The O.B. dump area will accommodate 93,829 cum of overburden during the working plan period. • After completion of the working plan, the generated O.B. will be backfilled into the stone quarry faces. • Part of the O.B. will be used for haul road and village road maintenance. • The remaining O.B. will be utilized for plantation activities. • No hazardous or other solid waste generation is envisaged from the stone mining activities.
Air Quality Management	<ul style="list-style-type: none"> • Wet drilling and use of sharp drill bits to minimize dust generation. • Controlled blasting using optimum explosive charge during favorable weather conditions. • Regular maintenance of diesel equipment and vehicles to reduce emissions. • Water sprinkling on haul roads, loading/unloading points, and working areas. • All transport vehicles will have valid PUC certificates. • Greenbelt and roadside plantation to act as dust and noise barriers.
Water Quality Management	<ul style="list-style-type: none"> • Mining will be confined only above the Ground Water Table (GWT). • Rainwater accumulated in the pit will be collected and pumped out regularly during monsoon. • Settling sump will be provided to desilt pumped out of mine-pit and collected through garland drain before discharge into natural drainage. • Garland and foot drains will be constructed around the quarry to control surface runoff. • Sewage from rest shelters will be treated through septic tank-soak pit systems.



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	<ul style="list-style-type: none"> • Foot drain would be provided around the external dump, if any.
Noise Quality Management	<ul style="list-style-type: none"> • Mining activities will be restricted to daytime and carried out with controlled blasting techniques. • Acoustic enclosures and mufflers will be provided for drilling and DG set operations. • Regular maintenance of mining machinery to minimize vibration and noise. • Greenbelt development around the lease boundary to attenuate noise propagation. • Use of delayed blasting technique to minimize the adverse impact of vibration.
Soil Quality Management	<ul style="list-style-type: none"> • Topsoil will be carefully removed and stored separately for future use in plantation and reclamation. • Garland drains and retaining walls will prevent soil erosion and siltation. • Spillage of oil or fuel will be avoided; impervious flooring and oil traps provided near storage areas • Post-mining, the area will be rehabilitated using stored topsoil and native vegetation
Flora & Fauna management	<ul style="list-style-type: none"> • No tree felling will be undertaken without obtaining permission from the competent authority. • Greenbelt and plantation will be developed using native species along approach roads and lease periphery (7.5m Safety Zone). • Dust suppression measures will minimize impact on surrounding vegetation
Socio Economy:	<ul style="list-style-type: none"> • Priority employment to local people in mining and ancillary activities. • Community development initiatives such as tree plantation drives, road maintenance, and local infrastructure support. • Awareness programs on safety, hygiene, and environmental protection
Monitoring & Reporting:	<ul style="list-style-type: none"> • Periodic monitoring of air, water (ground & surface), noise, and soil quality as per CPCB and SPCB guidelines. • All monitoring reports will be submitted to statutory authorities as per the compliance schedule. • Corrective measures will be taken immediately if any deviation from standards is observed.
Risk & Hazard	<p>Activities which are likely to create risk are: Temporary Storage of Explosives, Charging of Explosives, Blasting, Drilling, Bench Formation, Loading / Unloading, Transportation</p> <p>Proposed Preventive measures:</p> <ul style="list-style-type: none"> ▪ Overall slope angles of benches will be maintained at 45°.

	<ul style="list-style-type: none"> ▪ Unmanageable heights are not created. ▪ Loose sides are properly dressed. ▪ No loose stone or debris will be permitted to remain on the top of the bench or side of any excavation (Regulation 106(4) of MMR 1961). ▪ No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961) ▪ It will be ensured that the drilling equipment is suitable for the job. ▪ The person in charge of the drilling machine is competent to carry out the drilling operation; part of the training includes instructions to always face towards the open edge of the bench so that any inadvertent backward step is away from the edge. ▪ Provision of portable rail fencing between the drilling operations and the edge of the bench ▪ Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear. ▪ Restricted access to the area to all persons except those necessary for the drilling operation. ▪ Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation. ▪ In case due to any reason, wet drilling is not possible (due to non-availability of water), exhaust/ vacuum system will be provided which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose. ▪ Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
<p>Blasting & Handling of Explosives</p>	<ul style="list-style-type: none"> ▪ Blast hole geometry shall be properly designed. ▪ Blast site shall be wetted before and after blasting operations are completed. ▪ Only optimum quantity of permissible explosives shall be used so that the vibrations do not damage the structures/houses if the quarrying operations are close to human habitation. ▪ Blasting shall be conducted only during favourable weather conditions and only during the day time and permissible hours. ▪ While carrying out blasting operations near habitations, wide publicity will be given in the local area through announcement and other available media so that local people become aware of the blasting activities being undertaken in the area and take appropriate precautions. ▪ The vibrations should be monitored periodically in consultation with the local Mining authorities.

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	<ul style="list-style-type: none"> ▪ Use of explosives is specialist work. Planning for a round of shots is necessary to ensure that the face is properly surveyed, holes correctly drilled, direction logged, the weight of explosive suitable for good fragmentation and the continuity of the initiator are but a few of the steps necessary to ensure its safe use. ▪ Proper and safe storage of explosives in approved and Licensed Magazine. ▪ Proper security system to prevent theft/ pilferage, unauthorized entry into Magazine area and checking authorized persons to prevent carrying of match box, lights, mobile phones, cigarette or Bidi etc. will be put in place. ▪ Explosives shall be conveyed in special containers. ▪ Explosives and detonators shall not be carried in the same container. ▪ The holes which have been charged with explosives will not be left unattended till blasting is completed.
Health Hazards	<p>Health hazards should be interpreted as being harmful dust and noise which is emitted during surface mining operations. All suitable steps and precautions will be undertaken to ensure minimum health hazard. Provision of use of Personal Protective Equipment (PPE) will be kept. The PPE shall be of good make and quality, wherever possible ISI certified, suitable for the hazard e.g. a dust respirator fitted with the correct filter to capture the particulate hazardous dust and maintained to recommended standards. As personal protective equipment only affords limited protection it will only be used as a last resort and as an interim arrangement until other steps are taken to reduce the risk of personal injury to an acceptable level</p>
Accident Prevention	<ul style="list-style-type: none"> ▪ Mine road shall be made smooth regularly with a road roller. ▪ Mine road will be made sufficiently wide to keep two-way traffic. Regular water sprinkling will be done on mine road and haul road to avoid suspension of dust. ▪ All transportation within the mine lease area should be carried out directly under the supervision and control of management. ▪ The vehicles will be maintained in good working condition and checked thoroughly at least once a month by the competent person authorized for the purpose by the management. ▪ Navigation signs will be provided at each and every turning point up to the main road (wherever required). ▪ To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating.

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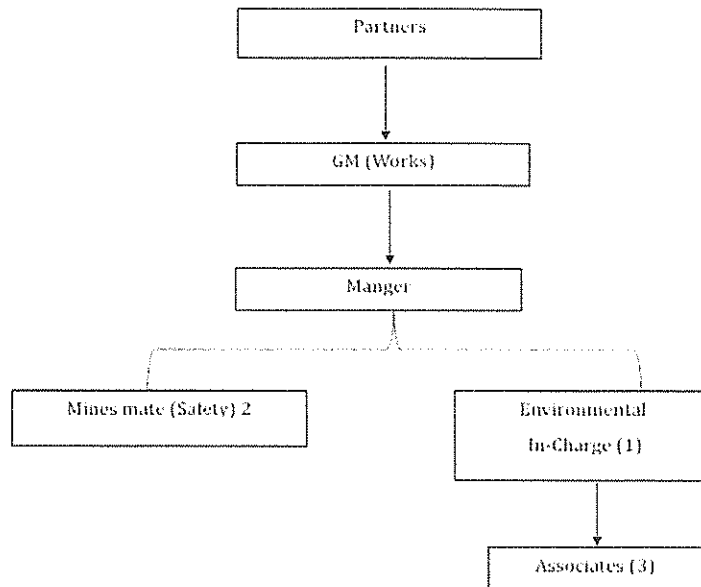
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Organizational Structure of Environment Management Cell:

ORGANIZATION CHART OF ENVIRONMENTAL MONITORING CELL



EMP Cell structure

The EMP Cell is committed to ensuring environmental sustainability and compliance with regulatory requirements for the Stone Mining Project. With a clear structure, roles, and responsibilities, the EMP Cell is equipped to manage environmental impacts and promote sustainable practices.

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 than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.

- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

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 Salbonapahar Stone Mine of M/s Jyoti Construction and Engineering Private Limited (Partners : Shri Ranjit Kumar & Shri Surjeet Kumar), Village : Salbonapahar, Thana : Shikaripara, Distt. : Dumka, Jharkhand (2.808 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II along with following specific conditions :

- I. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "EkPed Ma KeNaam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- II. The Deputy Commissioner through District Mining Officer will ensure that the mines owner of the respective leases to complete the plantation and maintenance in a time bound manner.
- III. Suitable plant species of not less than 2 M height to be planted equal to twice the area of saplings proposed in Safety zone. This is to be planted in land available near mines and outside safety zone. This will be in addition to plantation in safety zone. Newly planted saplings to be maintained for minimum 3 years with Geo-Tagged photographs.
- IV. Dedicated water tanker to be provided for mine. The tanker to be used for spraying water on haul road and for irrigating newly planted saplings only. Sprinkling to be done such that the haul road is kept moistened all the time with Geo-Tagged photographs.
- V. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests .Summary findings of same to submitted along with 6 monthly compliance.
- VI. Ensure use of Quality PPEs equivalent not less than 3M make. Records of same to be maintained and submitted with 6 monthly compliance report with Geo-Tagged photographs.
- VII. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- VIII. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

8. Borna Stone Mine of M/s Shiv Shakti Stone Works (Prop. : Shri Shankar Kumar), Mauza : Borna, Thana : Ranga, Distt. :Sahibganj, Jharkhand (1.62 Ha).

(Proposal no.: SIA/JH/MIN/ 574035 /2026)

This is an existing project which has been listed for transfer of EC on 26.04.2026. Earlier EC was issued by the then DEIAA, Sahibganj vide letter no. EC/DEIAA/2016-17/96, dated 13.12.2016 to Shri Rahul Kumar.

Regional Office, Ranchi, MoEF&CC, Govt. of India has issued a Certified Compliance Report (CCR) vide F. No. 111-22/ROR-2025/587, dated 13.10.2025 wherein several conditions of the earlier EC are stated to be not complied or partially complied.

Project Authorities stated that they have submitted an Action Taken Report in compliance of the CCR as above.

On the basis of Action Taken Report submitted by Project Authority, the Regional Office, Ranchi, MoEF& CC, Govt. of India has issued a Review Report on the Action Taken Report submitted by the PAs vide F. No. 111-22/ROR-2025/193, dated 09.04.2026.

Paragraph 4 of the above letter reads as follows :

"The received action taken report and Annexures enclosed therewith have been perused. It is informed that Shri Rahul Kumar has obtained mine lease from the State Govt. of Jharkhand for the period from 14/05/2010 to 13/05/2017. However, the mine lease was transferred dated 10/2/2018 to M/s Shiv Shakti Stone Works, Jharkhand for the period from 10/2/2018 to 13/5/2027. M/s Shiv Shakti Stone Works has been doing mining activities with the EC and renewal of CTOs obtained in the name of Shri Rahul Kumar, the then mine lease holder and thus violated the provisions of Environment (Protection) Act, 1986 and EIA Notification, 2006. Therefore, SEAC / SEIAA / JSPCB are requested to take necessary action as deemed fit on the proponent (s)"

Accordingly, SEIAA may write to JSPCB to take necessary action in the above matter.

Further, SEIAA may also write to Deputy Commissioner, Sahibganj to inquire in to the matter as to how the mine was in operation since 2018 without transfer of EC to the new lessee. The report of inquiry and his comments to be submitted in this office for further consideration.

9. Telmakri Stone Mine of M/s Sai Minerals (Partners : (i) Shri Kailash Prasad Verma (ii) Shri Birendra Prasad Mehta (iii) Shri Girdhari Lal Mehta (iv) Zakir Ansari), Village :Telmakri, Thana :Jamua, Distt.: Giridih, Jharkhand (1.76 Ha).

(Proposal no.: SIA/JH/MIN/565209/2026)

The distance of the forest from the boundary of the mine lease area is less than 500 meters.

As per the direction imposed in the interim order of the Hon'ble Jharkhand High Court, Ranchi in W.P (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand & Ors vide paragraph no. 62 (b) "The restriction on the grant of consents as above will now apply to the zone of 500 metres from the boundaries of forests/forest land insofar as stone mining is concerned, and to the zone of 400 metres insofar as stone crushers are concerned, instead of 250 metres as provided in the notification dated 07.12.2015 or 18.10.2017; In short, the position prevailing before the issue of the impugned notifications is restored until the final disposal of this Petition. This is, of course, subject to any other statutory restrictions, if any, affecting such activities in such zones."

Hence, the consideration of the proposal is deferred until further orders from the Hon'ble Jharkhand High Court.

10. Khairidih Stone Mine of M/s Warish Stone (Partner : Md. Shahid Ali), Village :Khairidih, Thana :Dhanwar, Distt. :Giridih, Jharkhand (1.82 Ha).

(Proposal no.: SIA/JH/MIN/ 531846 /2025)

Name of the consultant :Sabz Care Environmental Consultancy Pvt. Ltd., Deoghar, Jharkhand.

Application for Environmental Clearance (EC) (re-appraisal of Environment Clearance issued by DEIAA, Giridih).

The project has been granted EC by DEIAA, Giridih vide letter no. 109/EC/DEIAA/Giridih, dated 11.05.2017. Capacity is 45000 TPA.

As per O.M. dated 28th April 2023 issued by MOEF & CC projects which have been granted EC by DEIAA are to be reappraised by SEIAA / SEAC.

This is re-appraisal of the EC issued by DEIAA, Giridih which has been taken up for consideration on 26.04.2026. As per O.M. dated 12.12.18 issued by MOEF & CC projects fall in category B2.

Existing baseline condition as per monitoring report submitted by PP is as follows PM₁₀-65.27 to 70.36µg/m³, PM_{2.5}-29.81 to 32.51 µg/m³, SO₂-14.71 to 17.40 µg/m³, NO₂- 18.37 to 20.33 µg/m³. All the data are within the permissible limit.

Dust suppression is being carried out on regular basis.

Greenbelt Developed.

As per compliance report of JSPCB regarding previous EC, plantation has been done in safety zone.

Production detail as per memo no. 343/M, dated 27.03.2025 by DMO, Giridih is within the permissible limit of EC.

The compliance report of previous EC has been issued by Regional Office, Ranchi, MoEF&CC, Govt. of India vide F. No. 111-19/ROR-2025/448, dated 30.07.2025 and further issued a review report vide F. No. 103-589/IRO-2022/122, dated 10.03.2026.

The PAs have given an undertaking that few of the conditions which are still partially complied will be complied by 31st May, 2026 and also that mining activities will not commence before full compliance and submission of the status of compliance to SEIAA / SEAC.

It was also found that Director General of Mines Safety (DGMS) vide letter no. 721, dated 05.06.2025 issued by Director Mines Safety, Koderma Region has directed a Project Authorities to stop all blasting operation within the mine until the permission for blasting is obtained from DGMS.

The DGMS vide letter no. 51251979/CZ/Koderma Region/Perm 106(2)(b) Without Deep Hole Blasting / 2025/277041, dated 24.10.2025 has given permission for carrying out blasting operation without Deep Hole Blasting.

EC Application for: Proposed Capacity – 45000 Tonnes / Year.

Project and Location Details:

Sl	Parameter	Details	
1	Project Name	: Khairidih Stone Mine	
2	Lessee:	: M/s Warish Stone Partners – 1. Haider Ali and 2. Md. Shahid Ali	
3	Lessee Address	: Md. Shahid Ali (Partner), S/o Mubarak Ali, Vill + P.O.- Kubri, P.S. Dhanwar, District- Giridih, State- Jharkhand	
4	Mine Lease Area	: 1.82 Ha	Acres- 4.50 Acre
5	Type of Land	: Non-Forest Raiyati Land	
6	Project Cost	: Capital: Rs 5711000	

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7	EMP Budget	:	Capital: Rs 2736000	Recurring: 1403600 per year
8	New or Expansion	:	Re-appraisal of DEIAA EC	
9	Mineable Reserves	:	Tonnes: 277452.95 Tonnes	Life of Mine – Up to the lease period i.e. 20.11.2017 to 19.11.2027
10	Mine Life	:	Up to the lease period i.e. 20.11.2017 to 19.11.2027.	
11	Man power	:	20	
12	Water Requirement	:	30.80 KLD	
13	Water Source	:	Water for drinking purpose will be taken out by dug wells/ bore wells. For sprinkling & plantation water will be taken from private tanker	
14	DG Set / power	:	5 KVA	
15	Crusher	:	No crusher	
16	Nearest Water Body	:	Irga River at a distance of 10.2 km in East direction.	
17	Nearest Habitation	:	Khairidih Village within 0.1 Km (EMP Submitted)	
18	Nearest Rail Station	:	Dhanwar Railway Station at a distance of 9.4 Km in North-East direction.	
19	Nearest Air Port	:	Deoghar Airport, Deoghar is at the distance of approx. 82.0 km in East Direction.	
20	Nearest Forest	:	Divisional Forest Officer, Giridih West certified that the distance of reserved / protected forest is 2 Km from proposed project site.	
21	Road & Highways	:	SH-13 at a distance of 8.9 km in North direction	
22	ESZ	:	It does not come in ESZ zone. The nearest Parasnath Wildlife Sanctuary is approx. 40km in the SSE.	

CO-ORDINATES

PILLARID	LONGITUDE	LATITUDE
P1	85°54'11.80354"	24°21'38.25032"
P2	85°54'12.17362"	24°21'38.83507"
P3	85°54'12.56317"	24°21'39.45060"
P4	85°54'12.27719"	24°21'39.94744"
P5	85°54'12.89909"	24°21'39.91666"
P6	85°54'13.00954"	24°21'40.17550"
P7	85°54'14.28520"	24°21'39.24544"
P8	85°54'14.79013"	24°21'38.83619"
P9	85°54'15.58087"	24°21'38.00837"
P10	85°54'16.35959"	24°21'37.10092"

P11	85°54'16.84501"	24°21'36.55908"
P12	85°54'17.65764"	24°21'35.75120"
P13	85°54'19.05660"	24°21'34.67747"
P14	85°54'20.07864"	24°21'33.80962"
P15	85°54'19.60304"	24°21'32.78192"
P16	85°54'19.16694"	24°21'31.72828"
P17	85°54'18.20077"	24°21'32.55966"
P18	85°54'17.62805"	24°21'33.04357"
P19	85°54'16.60331"	24°21'33.84886"
P20	85°54'15.74698"	24°21'34.59992"
P21	85°54'14.87470"	24°21'35.55950"
P22	85°54'14.16841"	24°21'36.45072"
P23	85°54'13.23306"	24°21'37.32080"
P24	85°54'12.80009"	24°21'37.67432"

LAND DETAILS

Khata no.	Plot no.
05	416(P), 421, 422, 423, 424, 425(P), 426, 427, 428, 429(P), 430(P), 440(P), 442(P), 443(P), 444(P), 445(P) & 446(P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	i. The Letter of Intent (LoI) has been issued by Assistant Mining Officer, Giridih vide letter no. 71/M, dated 06.01.2017. ii. Lease deed 20.11.2017 to 19.11.2027.
2	CO	:	The CO, Dhanwar vide letter no. 30, dated 15.01.2016 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyani. During the appraisal it was seen from the KML that habitation at a distance of 100 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Giridih vide memo no. 342/M, dated 27.03.2025 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 221, dated 19.02.2025 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Giridih West Forest Division vide letter no. 79, dated 19.01.2016 certified that the distance of notified

			forest is 02 kilometers from proposed project site.
6	DSR	:	This project is mentioned in approved DSR of Giridih District (Sl. no. 38, Page no. 37).
7	Gram Sabha	:	Gram Sabha conducted on 07.10.2015.
8	Mine Plan / Scheme Approval	:	Mining scheme approved by Assistant Mining Officer, Deputy Director of Mines Office, Dhanbad Circle, Dhanbad vide Memo No. 153, dated 28.12.2023.
9	Previous Environmental Clearance (EC)	:	Previous EC granted by DEIAA, Giridih vide letter no. 109/EC/DEIAA/Giridih, dated 11.05.2017.
10	Compliance report of EC	:	The compliance report of previous EC has been issued by Regional Office, Ranchi, MoEF&CC, Govt. of India vide F. No. 111-19/ROR-2025/448, dated 30.07.2025 and further issued review report vide F. No. 103-589/IRO-2022/122, dated 10.03.2026.
11	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-1561726 /2018 /589, dated 31.05.2018.
12	Consent to Operate (CTO)	:	CTO issued by JSPCB vide ref. no. : i. JSPCB/RO/HZB/CTO-10069640/2021/48, dated 25.02.2021. ii. JSPCB/RO/HZB/CTO-16491096/2023/112, dated 12.06.2023 valid up to 19.11.2027.
13	Production Report	:	Production report issued by DMO, Giridih vide memo no. 343/M, dated 27.03.2025.
14	Qualified Person	:	Shri Tapan Kumar Chakravarty was present in the meeting and affirmed that the mining scheme has been prepared by him.

Working Details

1	Mining Method	:	Opencast, Semi Mechanized Method
2	Quarry Area	:	1.82 Ha Life of Mine – Up to the lease period i.e. 20.11.2017 to 19.11.2027
3	Waste Generation	:	9298.80 cum
4	Stripping Ratio	:	0.11:1
5	Working Days	:	300
6	Benches: size & No	:	3m to 3m and 3 in numbers
7	Elevation of Mine	:	373 m AMSL to 370 m AMSL
8	Ground Level Elevation	:	370 m AMSL

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9	Ultimate Working Depth	:	365 m AMSL
10	Water Table	:	360m AMSL (Source: Central Ground Water Board, Giridih) and water level monitoring of nearby well
11	Topography of Mine	:	Area represents gently sloping land.
12	Explosive Requirement	:	17.75 kg/day
13	Diesel/Fuel requirement	:	100litre/day

Production Details

Year	Production in CUM/year	Over Burden Production in CUM/Year	Production in Tons/Year
6 th	16664.52	5112	44994.20
7 th	16665.43	0	44996.67
8 th	16664.98	0	44995.44
9 th	16665.43	0	44996.67
10 th	12888.84	0	34799.87
Total	79549.20	5112	214782.85

Land Use

Pattern of Utilization	Land used in existing Plan period (Ha)	Land for Balance Period/Review period (Ha)	Total Land used at the end of the Mine (Ha)	Status of land at the end of life of the Mine
Mining Activities	0.22	1.31	1.31	Rain water Harvesting Pit - 1.17 Ha., Reclamation area - 0.12 Ha., Embankment- 0.02 Ha.
Dumping	0.00	0.00	0.00	-
Road	0.01	0.01	0.01	Green Belt
Garland Drain	0.00	0.00	0.00	-
Green Belt/Safety Zone	0.00	0.50	0.50	Green Belt
Unutilized	1.59	0.00	0.00	-
Total		1.82 Ha		-

ENVIRONMENT MANAGEMENT

Green Belt Development

Plantation				
Location	Area (Ha.)	No. of tree	Calculation	Timeline

Safety Zone	0.50	800	1600 tree per hectare	1st Year
Approach Road	0.50	1672	3m X 3m spacing 418X2X2 = 1672	1st year
Plantation on reclaimed area	0.12	192	1600 tree per hectare	Conceptual period
TOTAL		2664		
Species: Neem, Peepal, Arjun, Gamhar, Karanz, Gulmohar, Sheesham & other Native Species				

- 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.

Environment Management Budget (EMP)

Budgetary Provision of Environment Management Plan (EMP) in Rs		
Particulars	Capital	Recurring
Plantation of "2664" number of trees @Rs.500 per tree for plant & @Rs. 50 per tree for maintenance	12,36,000.00	1,23,600.00
Water Facility for Plantation "5.0" KLD & Dust Suppression "25.0" KLD (Annual Water Demand "9000" KL @5KL per Tanker, total number of tankers required ("1800") and per tanker cost @Rs. 600)	0.00	1080000.00
Garland Drain, Retaining Wall & De-siltation Pond	500000	100000.00
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA. II (M) dated 29/10/2014 issued by MoEF & CC (Physical barriers and reinforcements and Approach Road Maintenance)	1000000.00	100000.00
Environment Monitoring & Compliance	0.00	50000.00
Total	2736000.00	1403600.00

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

S. no	Monitoring Parameters	No. of Locations	Frequency of Monitoring
1	Ambient Air: Ambient Air Quality at appropriate location for PM10, PM2.5, SO2, NOx in the vicinity of the mine area. In the surrounding area covering project	3 Stations	Six Monthly

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	site only.		
2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise & Vibration: Day & Night level Noise Monitoring.	3 stations	Six Monthly
4	Soil Quality Test	1 Station	Six Monthly

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

S. no	Monitoring Parameters	No. of Locations	Frequency of Monitoring
1	Ambient Air: Ambient Air Quality at appropriate location for PM10, PM2.5, SO2, NOx in the vicinity of the mine area. In the surrounding area covering project site only.	3 Stations	Six Monthly
2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise & Vibration: Day & Night level Noise Monitoring.	3 stations	Six Monthly
4	Soil Quality Test	1 Station	Six Monthly

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	Total 9298.80 Cu.m waste (5112.0 Cu.m O.B. + 4186.80 Cu.m Intercalated waste) is being generated during Scheme period which will be used for haul road dressing & rehabilitation. Minimal amount of Solid Waste approx. 6.0 kg/day will be generated at the site by the local workers, hired for the project, which will be managed as per the Solid Waste Management Rules 2016.
Air Quality Management	<ul style="list-style-type: none"> • Wet drilling and use of sharp drill bits to minimize dust generation. • Controlled blasting using optimum explosive charge during favorable weather conditions. • Regular maintenance of diesel equipment and vehicles to reduce emissions. • Water sprinkling on haul roads, loading/unloading points, and working areas. • All transport vehicles will have valid PUC certificates. • Greenbelt and roadside plantation to act as dust and noise barriers.
Water Quality	<ul style="list-style-type: none"> • Mining will be confined only above the Ground Water Table (GWT).

Management	<ul style="list-style-type: none"> • Rainwater accumulated in the pit will be collected and pumped out regularly during monsoon. • Settling sump will be provided to desilt pumped out of mine-pit and collected through garland drain before discharge into natural drainage. • Garland and foot drains will be constructed around the quarry to control surface runoff. • Sewage from rest shelters will be treated through septic tank–soak pit systems. • Foot drain would be provided around the external dump, if any.
Noise Quality Management	<ul style="list-style-type: none"> • Mining activities will be restricted to daytime and carried out with controlled blasting techniques. • Acoustic enclosures and mufflers will be provided for drilling and DG set operations. • Regular maintenance of mining machinery to minimize vibration and noise. • Greenbelt development around the lease boundary to attenuate noise propagation. • Use of delayed blasting technique to minimize the adverse impact of vibration.
Soil Quality Management	<ul style="list-style-type: none"> • Topsoil will be carefully removed and stored separately for future use in plantation and reclamation. • Garland drains and retaining walls will prevent soil erosion and siltation. • Spillage of oil or fuel will be avoided; impervious flooring and oil traps provided near storage areas • Post-mining, the area will be rehabilitated using stored topsoil and native vegetation
Flora & Fauna management	<ul style="list-style-type: none"> • No tree felling will be undertaken without obtaining permission from the competent authority. • Greenbelt and plantation will be developed using native species along approach roads and lease periphery (7.5m Safety Zone). • Dust suppression measures will minimize impact on surrounding vegetation
Socio Economy:	<ul style="list-style-type: none"> • Priority employment to local people in mining and ancillary activities. • Community development initiatives such as tree plantation drives, road maintenance, and local infrastructure support. • Awareness programs on safety, hygiene, and environmental protection
Monitoring & Reporting:	<ul style="list-style-type: none"> • Periodic monitoring of air, water (ground & surface), noise, and soil quality as per CPCB and SPCB guidelines. • All monitoring reports will be submitted to statutory authorities as per the compliance schedule. • Corrective measures will be taken immediately if any deviation from standards is observed.
Risk & Hazard	<p>Activities which are likely to create risk are: Temporary Storage of Explosives, Charging of Explosives, Blasting, Drilling, Bench Formation, Loading / Unloading, Transportation</p>

	<p>Proposed Preventive measures:</p> <ul style="list-style-type: none"> ▪ Overall slope angles of benches will be maintained at 45°. ▪ Unmanageable heights are not created. ▪ Loose sides are properly dressed. ▪ No loose stone or debris will be permitted to remain on the top of the bench or side of any excavation (Regulation 106(4) of MMR 1961). ▪ No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961) ▪ It will be ensured that the drilling equipment is suitable for the job. ▪ The person in charge of the drilling machine is competent to carry out the drilling operation; part of the training includes instructions to always face towards the open edge of the bench so that any inadvertent backward step is away from the edge. ▪ Provision of portable rail fencing between the drilling operations and the edge of the bench ▪ Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear. ▪ Restricted access to the area to all persons except those necessary for the drilling operation. ▪ Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation. ▪ In case due to any reason, wet drilling is not possible (due to non-availability of water), exhaust/ vacuum system will be provided which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose. ▪ Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
<p>Blasting & Handling of Explosives</p>	<ul style="list-style-type: none"> ▪ Blast hole geometry shall be properly designed. ▪ Blast site shall be wetted before and after blasting operations are completed. ▪ Only optimum quantity of permissible explosives shall be used so that the vibrations do not damage the structures/houses if the quarrying operations are close to human habitation. ▪ Blasting shall be conducted only during favourable weather conditions and only during the day time and permissible hours. ▪ While carrying out blasting operations near habitations, wide publicity will be given in the local area through announcement and other available media so that local people become aware of the blasting activities being undertaken in the area and take appropriate precautions. ▪ The vibrations should be monitored periodically in consultation with the local Mining authorities. ▪ Use of explosives is specialist work. Planning for a round of shots is necessary to ensure that the face is properly surveyed, holes correctly drilled, direction logged, the weight of explosive suitable for good fragmentation and the continuity of the initiator are but a few of the steps necessary to ensure its safe use. ▪ Proper and safe storage of explosives in approved and Licensed Magazine.

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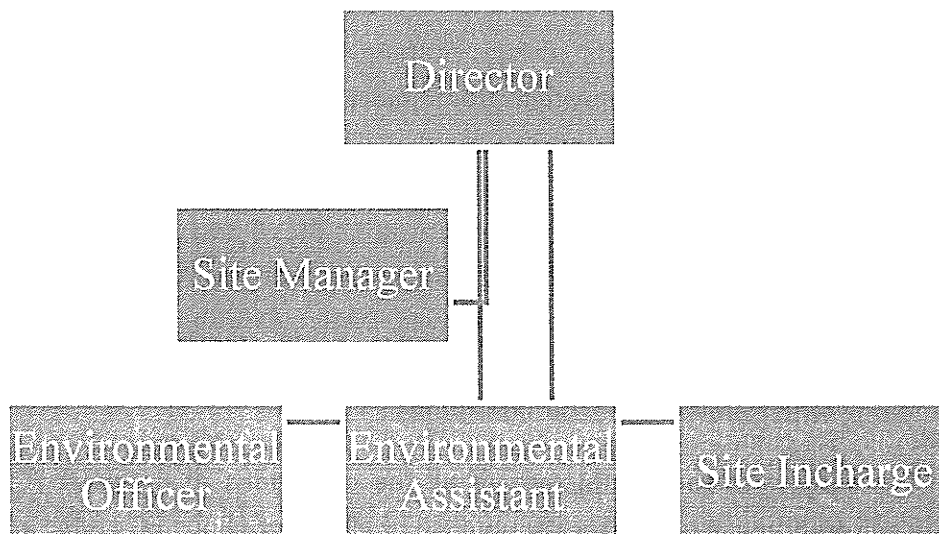
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	<ul style="list-style-type: none"> ▪ Proper security system to prevent theft/ pilferage, unauthorized entry into Magazine area and checking authorized persons to prevent carrying of match box, lights, mobile phones, cigarette or Bidi etc. will be put in place. ▪ Explosives shall be conveyed in special containers. ▪ Explosives and detonators shall not be carried in the same container. ▪ The holes which have been charged with explosives will not be left unattended till blasting is completed.
Health Hazards	<p>Health hazards should be interpreted as being harmful dust and noise which is emitted during surface mining operations. All suitable steps and precautions will be undertaken to ensure minimum health hazard. Provision of use of Personal Protective Equipment (PPE) will be kept. The PPE shall be of good make and quality, wherever possible ISI certified, suitable for the hazard e.g. a dust respirator fitted with the correct filter to capture the particulate hazardous dust and maintained to recommended standards. As personal protective equipment only affords limited protection it will only be used as a last resort and as an interim arrangement until other steps are taken to reduce the risk of personal injury to an acceptable level</p>
Accident Prevention	<ul style="list-style-type: none"> ▪ Mine road shall be made smooth regularly with a road roller. ▪ Mine road will be made sufficiently wide to keep two-way traffic. Regular water sprinkling will be done on mine road and haul road to avoid suspension of dust. ▪ All transportation within the mine lease area should be carried out directly under the supervision and control of management. ▪ The vehicles will be maintained in good working condition and checked thoroughly at least once a month by the competent person authorized for the purpose by the management. ▪ Navigation signs will be provided at each and every turning point up to the main road (wherever required). ▪ To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating

Organizational Structure of Environment Management Cell:



EMP Cell structure

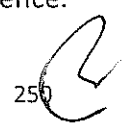
The EMP Cell is committed to ensuring environmental sustainability and compliance with regulatory requirements for the Stone Mining Project. With a clear structure, roles, and responsibilities, the EMP Cell is equipped to manage environmental impacts and promote sustainable practices.

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 than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

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 Khairidih Stone Mine of M/s Warish Stone (Partner : Md. Shahid Ali), Village : Khairidih, Thana : Dhanwar, Distt. : Giridih, Jharkhand (1.82 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II along with following specific conditions :

- l. This EC is subject to the compliance of all the conditions of previous EC. Mining activity will commence only after compliance of all the previous EC under intimation to SEIAA / SEAC with details and evidence.



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- II. All direction of DGMS, Koderma Region vide letter no. 51251979/CZ/Koderma Region/Perm 106(2)(b) Without Deep Hole Blasting / 2025/277041, dated 24.10.2025 shall be strictly complied.
- III. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- IV. The production shall be restricted as per approved mining scheme or the approved mine plan at the time of EC, which ever is less.
- V. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "EkPed Ma KeNaam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>).10% of the total green belt proposed shall be allocated under this clause.
- VI. During appraisal of the project, it is seen that the project authority have not fully complied the condition of green belt development as per the previous EC. Hence, the project authorities are required to plant twice the number of trees as was required in the previous EC.The Deputy Commissioner through District Mining Officer will ensure that the mines owner of the respective leases to complete the plantation and maintenance in a time bound manner.
- VII. Suitable plant species of not less than 2 M height to be planted equal to twice the area of saplings proposed in Safety zone. This is to be planted in land available near mines and outside safety zone. This will be in addition to plantation in safety zone.Newly planted saplings to be maintained for minimum 3 years with Geo-Tagged photographs.
- VIII. Dedicated water tanker to be provided for mine. The tanker to be used for spraying water on haul road and for irrigating newly planted saplings only.Sprinkling to be done such that the haul road is kept moistened all the time with Geo-Tagged photographs.
- IX. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests . Summary findings of same to submitted along with 6 monthly compliance.
- X. Ensure use of Quality PPEs equivalent not less than 3M make. Records of same to be maintained and submitted with 6 monthly compliance report with Geo-Tagged photographs.
- XI. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- XII. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

A. Site Visit Report to :

- i. Residential Apartment Project " SG Exotica" of M/s Subhash Kumar Modi & Gautam Modi at Village :Lalpur, Thana no. : 02, Tehsil : Ranchi Sahar, Distt. : Ranchi, Jharkhand.

The Project Authorities, in the 130th meeting of SEAC, had submitted documented evidence of implementation of Remediation Plan and Community Resource Augmentation Plan as per EC letter no. EC/SEIAA/2022-23/2552/2022/312, dated 13.12.2022.

It was decided to have a joint site visit with the representative from IRO, MoEF&CC, Govt. of India, Ranchi and SEAC, Jharkhand as per direction of S.O. no. 804 (E), dated 14.03.2017, to evidence the implementation of the Remediation Plan and Community Resource Augmentation Plan as reported.

The inspection could not be completed due to paucity of time.
Hence, it will be taken up in later meeting.

- ii. 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.

The Project Authorities, in the 130th meeting of SEAC, had submitted documented evidence of implementation of Remediation Plan and Community Resource Augmentation Plan as per EC letter no. EC/SEIAA/2021-22/2519/2021/215, dated 06.08.2022.

It was decided to have a joint site visit with the representative from IRO, MoEF&CC, Govt. of India, Ranchi and SEAC, Jharkhand as per direction of S.O. no. 804 (E), dated 14.03.2017, to evidence the implementation of the Remediation Plan and Community Resource Augmentation Plan as reported.

As per Environmental Clearance letter no. EC/SEIAA/2021-22/2519/2021/215, dated 06.08.2022, the Remediation Plan and Community Resource Augmentation Plan was as follows :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	i. For augmenting the treatment of Diseases due to uncontrolled emissions of Particulate Matter PM10 and PM2.5, Providing X-ray machine in the local Hospital a Rs.17 Lakh has been allotted to for treatment of	17.00

		ii. respiratory disease. Carpeting of the immediate nearby road blacktop provision of Rs. 30 Lacs has been provided for and area of 3600 Sqm (Length 400 Rm width 9 Rm)	30.00
3	Soil Environment	i. Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types of trees. a provision of Rs. 7 Lacs has been done.	7.00
4.	Socio-Economic Environment	i. In the neighborhood Govt. School to educate the children about the sustainable environment practices and to establish science and computer lab. A provision of Rs. 7 Lacs has been done.	7.00
5.	Energy conversation	ii. Rooftop Solar panel to generate solar energy and feed directly to the grid and also providing net meter to assess the saving of normal electricity a provision of Rs. 7.25 Lacs.	7.25
Total cost Rs. In Lacs			70.25

The utilization of the funds is done as per the above mentioned Remediation Plan and Community Resource Augmentation Plan.

The details of the utilization as evidence during the site visit is as follows :

S. No.	Major Environment	Details	Budgetary Cost in Rs.	Compliance / Completion Report	Name of Agency/ Department	Details	Invoice No and date	Invoice Amount
1	Air Environment	a. For augmenting the treatment of diseases due to uncontrolled emission of Particulate matter PM10 and PM 2.5 ,Providing X- Ray machine in the local Hospital .	1700000	X-Ray Machine with digital printer, UPS and Air-Conditioner installed at Community Health Center, Ratu,Ranchi	IN HEALTH CARE N EQUIPMENTS	Supply & Installation of of X- Ray Machine, Buckey Table, CR FUJI System	HCE-123 dated 10.01.2026	1793400.00
					Great Estern Trading Co.	Supply & Installation of Voltas 1.5 Tr Split A/C	J1424/2526 /05803 dated 29/01/2026	28500.00
					TOTAL			1821900.00
					Civil Surgeon Cum Chief Medical Officer , Sadar Hospital, Ranchi	Approval for Installation of X-Ray Machine	03-06-2024	NA
					Atomic enery Regulatory Board	Permission for Procurement of X-ray Machine	26-11-2025	NA

				Chief Medical Office , Ratu, Ranchi	Confirmation letter of Installation of X-Ray Machine system	07-02-2026	NA	
				Adonis Media System Pvt. Ltd.	Installation Report	02-02-2026	NA	
				Photographs of Installed X- Ray Machine				
	b. Carpeting in the immediate nearby road black top .	3000000	We have completed executed earthwork, subgrade ,GSB work , Black Top and RCC road in bank Colony, Boreya, Tagore Hill road to Amrit Vihar.	M A & Brothers	Construction of Road Base - Subgrade, compaction of Mooram and GSB base course (700 m long and 6.0 m wide)	Bill No- 23 dated 28/11/2022	1125508.00	
				M A & Brothers	Construction of Road Base - Compacted GSB base course & RCC Road (380 m long and 5.5 m wide)	Bill No- 23 dated 19/01/2026	1411810.00	
				M A & Brothers	Construction of Road Base - Bituminious Road & RCC Road (280 m long and 5.5 m wide)	Bill No- 24 dated 08/02/2026	481521.00	
				TOTAL				3018839.00
				Ward Parshad, ward No-04	Certification of construction of road	14-12-2022	NA	
				Ward Parshad, ward No-04	Certification of construction of road	20-01-2026	NA	
				Photographs of constructed roads				
Water Environment	Construction of Rainwater Harvesting Pit 1 No in the surrounding area to recharge	200000.0		The work has been executed 1. in Govt. +2 High School Kanke and 2. in High school Boreya.	Adwet Solar & Water	Construction of Rain Water Harvesting Pit at Govt +2 High School , Kanke	Assotech/20 23-24/01 dated 12.08.2024	75000.00







		the ground water directly by Chanellizing the rainwater flow into the slope before water getting wasted.			Sahay Brothers(OPC) Pvt. Ltd.	Constructio n of Rain Water Harvesting Pit at Gov High School ,Boreya	RWH(2) dated 09/02/2026	130360.00
					TOTAL			205360.00
					District Education Officer, Ranchi	Approval of executing the various jobs in Govt 10+2 school, Kanke, Ranchi & Govt High School, Boreya	21-06-2024	NA
					Principal - Govt 10+2 school, Kanke, Ranchi	Certification of Completion of R.W. Harvesting pit	17.10.2024	N.A.
					Principal - Govt school, Boreya, Ranchi	Certification of Completion of R.W. Harvesting pit	30-10-2026	N.A.
					Photographs of RWH			
3	Soil Environment	Direct loss to the soil environment due to water erosion and providing in the surrounding neibouhood area by plantation of varoioustres .	700000.0	The work has been executed in Govt. +2 High School Kanke.	Magical Plant Nursery	Details of Plantatation done at Govt. +2 School , Kanke	INV-5 dated 03/12/2024	715900.00
					TOTAL			715900.00
					Principal, Govt.10+2 School, Kanke , Ranchi	Certificate for plantation	10.01.2024	N.A.
					Photographs of plantation			
4	Socio-Economic Environment	In the neighborhood Govt School to educate the children about the subtanciale nvironment	700000.0	The work has been executed in Govt. +2 High School Kanke.	Bhatia Sports & Scientific	Supply of Physics and Chemistry lab Equipments	B58/24-24/4255 dated 28/09/2024	386674.00
					Shree Balaji Bath Co.	Supply of Sink, Pipes and Fittings	SBBC/24-25/0255 dated 15/10/24	35000.00

	practices and to establish Science & computer Lab.			Srijan	Supply of Computer tables and Chairs	SJ/24-25/085 dated 20/08/24	60000.00
				Digital care	Supply of Computers	DC/24-25/33045 dated 20/10/24	106720.00
				Magical Plant Nursery	Installation of pipes, fitting, Sinks and other civil works	INV-59 dated 17/12/2025	156146.00
				TOTAL			744540.00
				Principal, Govt.10+2 School, Kanke , Ranchi	Request letter for Installation of Labs in Govt. +2 School, Kanke	03-05-2024	N.A.
				Principal, Govt.10+2 School, Kanke , Ranchi	Certificate for Installation of Labs in Govt. +2 School, Kanke	17.10.2024	N.A.
				Photographs of Labs			
				Sahay Brothers(OPC) Pvt. Ltd.	Supply of Solar panels and Invertor	1547(1)/SB/assotech/O G/CSI dated 28.01.2026	562710.00
				Sahay Brothers(OPC) Pvt. Ltd.	Supply of Structure and Instalation Cost	1547(2)/SB/assotech/O G/CSI dated 28.01.2026	271019.00
				TOTAL			833729.00
Energy Conservation	Roof top Solar Power panel to generate solar enery and feed direcly to the grid and also providing the net meter to access the saving of normal electricity.	725000.00	Solar power system of 15 KW has been set up at Dr. Ram Dayal Munda Trabal Reseach Welfare Institute.	Dy Director - Dr. Ramdayal Munda Institute	Approval letter for Installation of 15 KW Solar Power system at Dr. Ram dayalmunda Tribal research institute ,Morabadi.	29-01-2026	N.A.

					Dy Director - Dr. Ramdayal Munda Institute	Completion Certificate for Installation of 15 KW Solar Power system at Dr. Ram dayalmunda Tribal research institute ,Morabadi.	16.02.2026	N.A.
Photographs of Installed Solar Panels								
Total		Total Amount of Remediatio n Plan & Natural Community Resource Augmentati on plan	7025000. 00				Total amount spent	7340268.00

Hence, it is recommended and requested for further action to felicitate the release of the Bank Guarantee of Rupees 70,25,000 (Rupees Seventy Lakh Twenty Five Thousand only) submitted to Jharkhand State Pollution Control Board, Ranchi, vide Bank Guarantee No. :74800IGL0001222 dated :26.07.2022.

Hence, the Member Secretary, SEAC will write a formal letter to SEIAA regarding above.

- iii. 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.

The Project Authorities, in the 130th meeting of SEAC, had submitted documented evidence of implementation of Remediation Plan and Community Resource Augmentation Plan as per EC letter no. EC/SEIAA/2022-23/2591/2022/211, dated 06.08.2022.

It was decided to have a joint site visit with the representative from IRO, MoEF&CC, Govt. of India, Ranchi and SEAC, Jharkhand as per direction of S.O. no. 804 (E), dated 14.03.2017, to evidence the implementation of the Remediation Plan and Community Resource Augmentation Plan as reported.

As per Environmental Clearance letter no. EC/SEIAA/2022-23/2591/2022/211, dated 06.08.2022, the Remediation Plan and Community Resource Augmentation Plan was as follows :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	i. Carpeting of the immediate nearby road blacktopping and base provision of Rs. 20 Lacs has been provided for and area of 2400 Sqm (Length 265 Rmt, width 9 Rmt) ii.	20.00
2	Water Environment	i. Construction of rainwater harvesting pits 02 Nos in the surrounding area to recharge the ground directly by channelizing the rainwater flow in the slop before water getting wasted.	4.00
3	Soil Environment	i. Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types of trees. a provision of Rs. 5 Lacs has been done.	5.00
4.	Socio-Economic Environment	i. I in the neighborhood Govt. School to educate the children about the sustainable environment practices and to establish science and computer lab. A provision of Rs. 3 Lacs has been done.	3.00
5.	Energy conversation	i. Rooftop Solar panel to generate solar energy and feed directly to the grid and also providing net meter to assess the saving of normal electricity a provision of Rs. 3.35 Lacs.	3.35
Total Cost Rs. In Lacs			35.35

The utilization of the funds is done as per the above mentioned Remediation Plan and Community Resource Augmentation Plan.

The details of the utilization as evidence during the site visit is as follows :

Sr. No.	Major Environment	Details	Budgetary Cost in Rs.	Compliance/ Completion Report	Name of Dgency/ Department	Details	Invoice No and Date	Invoice Amount
1	Air Environment	Carpeting in the immediate nearby road black toping and base preparation.	2000000.0	Road Work Done in Bank Colony area from T - point to Sector -2	M A Brothers	Construction of Road - Black carpeting at road nearby Sector-2	Invoice no - 04 dated 06/07/2023	1000019.00
					M A Brothers	Construction of Road - laying & compaction of GSB and Black carpeting from bank Colony T point to Sector-2	Invoice No - 25 dated 07/02/2026	1079878.00

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								TOTAL	2079897.0			
								Ward Parshad Ward No - 04	Certification of construction of road as per Invoice No -04	29-04-2025	N.A.	
								Ward Parshad Ward No - 04	Certification of construction of road as per Invoice No -25	25-01-2026	N.A.	
								Photographs of Completed Road				
2	Water Environment	Construction of Rainwater Harvesting Pits in the surrounding area to recharge the ground water directly by Chanelizing the rainwater flow into the slope before water getting wasted.	400000.00	Rain Harvesting Pit work done in Govt. High School , Boreya , Ranchi	Sahay Brothers (OPC) Pvt. Ltd.	Construction of Rain Water Harvesting Pit at Gov High School , Boreya	RWH(1)/ SB/Assotech / RW/ HS Boreya/ CSR/003 dated 06/02/2026				402380.0	
								TOTAL				402380.0
					District Education Officer, Ranchi	Approval of executing the various jobs in Govt 10+2 school, Kanke, Ranchi & Govt High School, Boreya		21-06-2024			NA	
					Principal - Govt High school, Boreya, Ranchi	Certification of Completion of R.W. Harvesting pit		Ref 11/26, dated 30.01.2026			N.A.	
								Photographs of Completed RWH Pits				
3	Soil Environment	Direct loss to the soil environment due to water erosion and providing in the surrounding neibouhood area by plantation of varoious trees .	500000.0	Plantation work done in Govt. High School Boreya, Ranchi.	Magical Plant Nursery	Plantation at High School, Boreya compound	INV-77 dated 30/01/2026				513000.0	
								TOTAL				513000.0
					Principal , Govt. High School , Boreya	Confirmation Letter for Plantation		30.01.2026				
								Photographs of Plantation Work				
4	Socio-Economic Environment	In the neighborhood Govt School to educate the children about the subtancial enviroinment practices and to establish Science & computer Lab. A provion of Rs.	300000.0	Computer Science Lab, Physics and Chemisty laboratory instruments supplied at Govt. High School ,Boreya, Ranchi	Labmate	Supply of Physics and Chemistry lab Equipments	L/25-26/1258 dated 07/02/2026				59085.0	
					Chauhan Science Project	Physics lab modals		034 dated 01/02/26			11800.0	
					Srijan	Supply of Computer Table and Chair		SJ/25-26/444 dated 20/02/2026			36000.0	

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		3.0 lacs has been done.			Digital Care	Supply of Compters and laptop	7387 dated 19/01/2026	204700.0
					TOTAL			311585.0
					Principal , Govt. High School , Boreya	Confirmation Letter for establishment of labs at Govt. High School , Boreya	10-02-2026	N.A.
					Photographs of Computer lab & other Work			
5	Energy Conseryation	Roof top Solar Power panel to generate solar enery and feed directly to the grid and also providing the net meter to access the saving of normal electricity.	335000.00	Solar power system of 5 KW has been installed at Dr. Ram Dayal Munda Tribal Welfare Research Institute, Morabadi.	Sahay Brothers (OPC) Pvt. Ltd.	Supply of Solar panels and Invertor	5.3Kw(1)/SB /Assotech/ OG/002 dated 30/01/2026	261299.00
					Sahay Brothers (OPC) Pvt. Ltd.	Supply of Structure & Installation	5.3Kw(2)/SB /Assotech/ OG/001 dated 30/01/2026	125850.00
					TOTAL			387149.00
					Dy. Director, Dr. Ramdayal Munda tribal Research Institute, Morabadi.	Permission of installation of 5 KW Solar power System	Ref 1840 dated 31/12/2025	N.A.
					Dy. Director, Dr. Ramdayal Munda tribal Research Institute, Morabadi.	Certification of completion of installation of 5 KW Solar power System	Ref 168 dated 16/02/2026	N.A.
					Photographs of 5 KW Solar power Panels at roof top			
	Total	Total Amount of Remediation Plan & Natural Community Resource Augmentation plan	3535000.00				Total Amount Spent	3694011.00

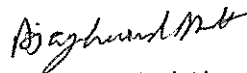
Hence, it is recommended and requested for further action to felicitate the release of the Bank Guarantee of Rupees 35,35,000 (Rupees Thirty Five Lakh Thirty Five Thousand only) submitted to Jharkhand State Pollution Control Board, Ranchi, vide Bank Guarantee No. :74800IGL0001322dated :26.07.2022.

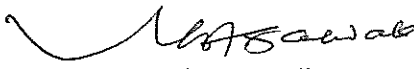
Hence, the Member Secretary, SEAC will write a formal letter to SEIAA regarding above.

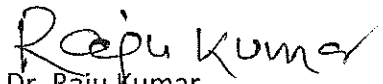
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The meeting concluded with thanks to all present.

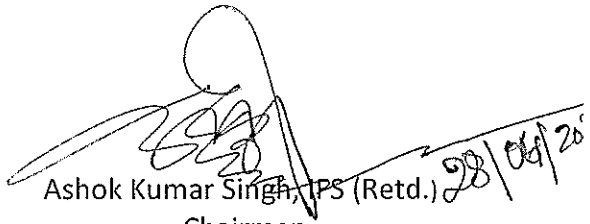
Ashok Kumar Dubey, IFS (Retd.)
Member


Dr. Ajay Govind Bhatt
Member


Niranjana Lal Agarwalla
Member


Dr. Raju Kumar
Member


Srikant Verma, IFS
Member Secretary


Ashok Kumar Singh, IFS (Retd.)
Chairman

The TORs prescribed for undertaking detailed EIA study are as follows:

A. Standard Conditions :

1. Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
2. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.
3. Examine baseline environmental quality along with projected incremental load due to the project.
4. Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
5. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project.
6. Submit the details of the trees to be felled for the project.
7. Submit the present land use and permission required for any conversion such as forest, agriculture etc.
8. Submit roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
9. Ground water classification as per the Central Ground Water Authority.
10. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
11. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
12. Examine soil characteristics and depth of ground water table for rainwater harvesting.
13. Examine details of solid waste generation treatment and its disposal.
14. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
15. 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.
16. 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.
17. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
18. Examine the details of transport of materials for construction which should include source and availability.



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19. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
20. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
21. 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.
22. The cost of the Project (capital cost and recurring cost) the damage cost of already opened land as well as the cost towards implementation of EMP should be clearly spelt out.
23. 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](http://moef.nic.in/Manual/Townships)".
24. 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.
25. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022 of MoEF&CC, Govt. of India.

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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. In the writ petition (Civil) no. 202/1995, T.N. GodavermanThirumulpadv union of India and ors. TheHon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities proscribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- iii. 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.
- iv. 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.

- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.

- ix. 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.
- x. 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.
- xi. 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 "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".
- xii. 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.
- xiii. 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.
- xiv. 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.
- xv. 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. Environment clearance.nic.in](http://www.Environmentclearance.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEF& CC Regional Office for compliance and record.
- xvi. 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 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

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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 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-IAI (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

- 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 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 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.



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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, if any found or reported by the competent authority. 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. If any Wild Life Conservation Plan is prepared as per above clause no. iv, it shall be 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.

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 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 shall not increase production rate and alter lease area during the validity of Environmental Clearance
- x. Any appeal against this Environmental Clearance 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:

1. The EIA Report shall be prepared for MTPA rated capacity in an ML / project area of ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
2. An EIA-EMP Report would be prepared for..... MTPA rated capacity to cover the impacts and management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for..... MTPA . Baseline data collection can be for any season except monsoon.
3. A map specifying locations of the State, District and Project location should be provided.
4. A Study area map of the core zone and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
5. Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area may also be provided with explanatory note on the land use.
6. Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
7. A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
8. A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
9. In case of any proposed diversion of nallah/canal/river, the proposed route of diversion /modification of drainage and their realignment, construction of

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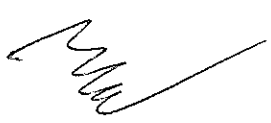
embankment etc. should also be shown on the map as per the approval of Irrigation and FloodControl Department of the concerned state.

10. Similarly if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and its realignment should be shown in the map.
11. Break up of lease/project area as per different land uses and their stage of acquisition should be provided.

Land use details for opencast project should be given as per the following table :

S. N.	Land use	Within ML area	Outside ML area	Total
1.	Agricultural land			
2.	Forest land			
3.	Wasteland			
4.	Grazing land			
5.	Surface water bodies			
6.	Settlements			
7.	Others (specify)			

12. Break-up of lease/project area as per mining operations should be provided.
13. Impact of changes in the land use due to the project, if much of the land being acquired is predominantly agricultural land/forestland/grazing land.
14. One-season (non-monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
15. Map of the study area (1: 50, 000 scale) (core and buffer zone clearly delineating the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources should be provided. The number and location of the stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Values should be provided based on desirable limits.
16. Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora fauna and, or if the area is occasionally visited or used as a habitat by Schedule-I fauna, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan should be prepared and submitted with EIA-EMP Report; and comments from the CWLW of the State Govt. should also be obtained and furnished.

17. Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included.
18. Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
19. Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
20. Detailed water balance along with flow chart should be provided. The break-up of water requirement for the various mine operations should be given separately.
21. Source of water for use in mine, sanction of the competent authority in the State Govt. and impacts vis-à-vis the competing users should be given.
22. Impact of mining and water abstraction use in mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
23. Impact of blasting, noise and vibrations should be given.
24. Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
25. Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop, management plan for maintenance of HEMM, machinery, equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
26. Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP / Silo entirely wagons and into trucks / tippers.
27. Details of waste OB and topsoil generated as per the approved calendar programme, and their management shown in figures as well explanatory notes tables giving progressive development and mine closure plan, green belt development, backfilling programme and conceptual post mining land use should be given. OB dump heights and terracing based on slope stability studies with a max of 28° angle as the ultimate slope should be given. Sections of final dumps (both longitudinal and cross section) with relation to the adjacent area should be shown.
28. Efforts be made for maximizing progressive internal dumping of O.B., sequential mining, external dump on coal bearing area and later rehandling into the mine void.-- to reduce land degradation.

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29. Impact of change in land use from mining operations and whether the land can be restored to agriculture use post mining.
30. Progressive Green belt and Ecological restoration /afforestation plan (both in text, figures and in the tabular form as per the format of MOEF&CC given below) and selection of species (native) based on original survey/land use should be given.
31. Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the status of pre- mining should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of rehandling (wherever applicable) and backfilling and progressive mine closure and reclamation should be detailed.

Table 3 : Post-Mining land use pattern of ML / Project area (ha)

Land use during mining	Land use (ha)				
	Plantation	Water body	Public use	Undisturbed	Total
External OB dump					
Top soil dump					
Excavation					
Roads					
Built up area					
Green belt					
Undisturbed area					
	Total				

32. Flow chart of water balance should be provided. Treatment of effluents from workshop, township, domestic wastewater, mine water discharge, etc. should be provided. Details of STP in colony and ETP in mine should be given. Recycling of water to the max. possible extent should be accorded ?.
33. Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower in the mine should be given.
34. Risk Assessment and Disaster Preparedness and Management Plan should be provided.
35. Integration of the Environmental Management Plan with measures for minimizing use of natural resources - water, land, energy, etc. should be carried out.
36. Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
37. Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced

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people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.

38. CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
39. Corporate Environment Responsibility:
 - a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
 - d) To have proper checks and balances, the company should have a well laid down 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.
40. Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of public hearing, the points raised by the general public and commitments made by the proponent and the action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
41. In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.
42. Status of any litigations/ court cases filed/pending on the project should be provided.
43. Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.
44. Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

Details on the Forest Clearance should be given as per the format given :

Total ML / Project area (ha)	Total forest land (ha)	Date of FC	Extent of forest land	Balance area for which FC is yet to be obtained	Status of application for diversion of forest land

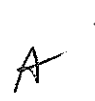
45. Besides the above, the below mentioned general points should also be followed:-
- a) A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
 - b) All documents may be properly referenced with index and continuous page 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) Where the documents provided are in a language other than English, an English translation should be provided.
 - e) The Questionnaire for environmental appraisal of mining projects as prescribed by the Ministry shall also be filled and submitted.
 - f) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
 - g) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF 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 also be followed.
 - h) 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. 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 process again with the revised documentation.

The EIA report should also include

1. surface plan of the area indicating Contours of main topographic features, drainage and mining area.
2. geological maps and sections and
3. sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

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.

46. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022 of MoEF&CC, Govt. of India.



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, Forest and Climate Change as per OM no. F.no. IA3-22/10/2022-IA.III [E 177258], dated 08th June, 2022 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.
- 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.

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 conveyer- 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. 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 2500 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.
- 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. 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.

12. 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.

13. 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.

14. 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
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 is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022 of MoEF&CC, Govt. of India.



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, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. In the writ petition (Civil) no. 202/1995, T.N. GodavermanThirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- v. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- vi. 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.
- vii. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- viii. 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.
- ix. 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.
- x. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- xi. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xii. 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.

- xiii. 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.
- xiv. 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.
- xv. 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.
- xvi. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvii. Water during construction phase should be preferred from Municipal supply.
- xviii. Unskilled construction labourers shall be recruited from the local areas.
- xix. 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.
- xx. 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.
- xxi. Rest room facilities shall be provided for service population.
- xxii. 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.
- xxiii. 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.

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



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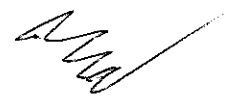
released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.

- 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 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.
- 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.
- 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 based on the MBBR/MBR/SBR technology. 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.

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- 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. 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
- 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.

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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

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- 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.
 - xvi. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF&CC, Govt. of India.

Environmental Safeguard provided by JSPCB

A. Safeguards for control of Water Pollution:

1. That, the occupier shall provide provisions for treatment of Sewage through a Sewage Treatment Plant (STP) of adequate capacity as required, to meet the discharge norms prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder.
2. That, the occupier shall ensure that no untreated waste water or effluent is discharged outside the premises under any circumstances, and all wastewater shall be treated to meet prescribed standards before reuse or disposal.
3. That, the occupier shall provide proper drainage channels across the premises to prevent waterlogging and avoid contamination of surrounding areas.
4. That, the occupier shall install silt traps and sedimentation tanks to control construction run-off and prevent the discharge of silt-laden water outside the premises.
5. That, the occupier shall ensure that, water during construction phase should be preferred from Treated Waste Water of the existing Hospital premises.
6. That, the occupier shall ensure that, total fresh water use shall not exceed the proposed requirement as provided in the project details.
7. That, the occupier shall ensure that, 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.
8. That, the occupier shall ensure that, use of water saving devices/ fixtures (viz. low flowflushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan
9. That, the occupier shall ensure that, water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices referred.
10. That, the occupier shall ensure that, rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms approval from the Competent Authority.
11. That the occupier shall ensure that, the ground water shall not be withdrawn without approval from the Competent Authority.
12. That, the occupier shall ensure that, no ground water shall be used during construction phase of the project for the construction purposes.

B. Safeguards for control of Air Pollution:

1. That, the occupier shall ensure that, acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and conform to rules made under the Environment (Protection) Act, 1986. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Low sulphur diesel

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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.


2. That, the occupier shall install Retrofit Emission Control Devices (RECDs) to the DG sets as per CPCB norms from the manufacturers certified by CPCB for same.
3. That, the occupier shall use only low-sulphur fuel for DG sets and shall ensure periodic monitoring of emissions to meet prescribed standards.
4. That, the occupier shall use only PUC-certified vehicles and DG sets complying with established emission norms of CPCB.
5. That, the occupier shall ensure regular maintenance of all construction machinery and equipment to minimize emissions and ensure efficient operation.
6. 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 6 meter height).
7. That, the occupier shall ensure that, plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
8. That, the occupier shall store fine construction materials such as sand, cement and aggregates in enclosed spaces to prevent their dispersion due to wind or site activity.
9. That, the occupier shall construct pucca internal road or pave the approach road so as to avoid generation of dust particles due to vehicular movement and shall be so designed to ensure free movement of vehicles and other machinery.
10. That the occupier shall ensure that, 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. Moreover, all construction and demolition waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
11. That the occupier shall ensure that, unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
12. That, the occupier shall ensure that for indoor air quality the ventilation provisions as per National Building Code of India.

C. General Safeguards:

1. That the occupier shall construct pucca (i) minimum ten feet high boundary wall and (ii) approach road and internal roads and shall keep the premises neat, clean and tidy.
2. That, the occupier shall submit the ambient air quality, noise level and the effluent analysis reports to the Board before and after commissioning of the project.
3. That, the occupier shall ensure that, use of environment friendly materials such as Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, compressed earth blocks shall be used for at least 50% of the construction material quantity.
4. That, the occupier shall ensure that, adequate provisions 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 complied with.



5. That, the occupier shall ensure that separate bins for dry and wet solid waste must be provided in each unit for facilitating segregation of waste.
6. That, the occupier shall install organic waste compost/Vermiculture pit / Organic Waste Converter within the premises with a minimum capacity of 0.3 kg/person/day
7. That, the occupier shall ensure that, all non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recycler.
8. That, the occupier shall ensure that any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the Jharkhand State Pollution Control Board.
9. That, the occupier shall ensure that the provisions of the Solid Waste Management Rules, 2016. The e-Waste (Management) Rules, 2022, the Plastic Waste Management Rules, 2016, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and The Noise Pollution (Regulation and Control) Rules, 2000 shall be followed and complied with.
10. That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and rules thereunder.
11. That, this Comments & Environmental Safeguards is issued from the environmental angle only and does not absolve the occupier from other statutory obligation prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions rests with the occupier.
12. That, the occupier shall conserve the energy via solar power or LED.
13. That, this Comments & Environmental Safeguards shall not in any way adversely affect or jeopardize legal proceedings, if any, instituted in the past or that may be instituted against the occupier by the State Board for violation of the Act or Rules made there under.



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