



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004

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Letter No : EC/SEIAA/2022-23/2769/2023/

Ranchi, Date :

To: M/s Ganga Engineering,
Shri Jitendra Agarwal Garg,
Ganga Engineering, Thakur Pyara Singh Road,
Kashidih, Sakchi, Jamshedpur.
District : East Singhbhum, Jharkhand : 831001.

Sub: Prescribing of ToR to “Brahmandungri Soapstone Mine of M/s Ganga Engineering at Village : Brahmandungri, Tehsil : Rajnagar, District : Saraikela-Kharsawan, Jharkhand (31.36 Ha)” (Proposal No. : SIA/JH/MIN/417227/2023) – regarding.

Ref: Your application no.- Nil, dated – 15.03.2023.

Sir,

The proposal was considered by the committee to determine the “Terms of Reference (ToR)” for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 1 (a) Mining of minerals as per EIA Notification, 2006.

This is a **violation project** which has been taken for appraisal on 23.03.2023 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Mining lease was granted to M/s Ganga Engineering and the mining lease Brahmandungri Soapstone mine lease deed was executed on 07.03.2005 for a period of 20 years over an extent of 31.36 Ha. The mining lease area cover 25.31 Ha of private land and 6.05 Government land. The application for renewal of mining lease was made by M/s Ganga Engineering for exploitation of Soapstone. M/s Ganga Engineering was in possession of the entire lease and was performing the mining operation from the subject mines.

Previously the Mining Plan of the said mine was approved by the Regional Controller of Mines, Indian Bureau of Mines, Ranchi Region, Ranchi. The approval was given under the Letter No. CAL/SARKHAR/SST/MP-634 dated 22.11.2004. Scheme of mining is prepared for the period

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of 2020-21 to 2024-25. Mining operation is being carried out in the area since 18.04.2007 without granting the mining lease and the mining lease is closed Since 2013.

Past production has been certified by Mining officer, Saraikela Kharsawan, Jharkhand vide letter no 243/M, dated 29.03.2019, Letter also states that the mining activity has been stopped since 2013.

Sr. No.	Previous Years	Production (MT)
1	2004-05	0.00
2	2005-06	0.00
3	2006-07	0.00
4	2007-08	83.00
5	2008-09	355.00
6	2009-10	362.00
7	2010-11	1736.00
8	2011-12	4040.600
9	2012-13	1400.00
10	2013-14	0.00
11	2014-15	0.00
12	2015-16	0.00
13	2016-17	0.00
14	2017-18	0.00

Project and Location Details:

Sl.	Parameter	Details
1	Project Name	: Mining of Soapstone minor mineral from Brahmandungri Soapstone mine with 42822.00 TPA Production capacity over a ML area of 31.36 ha located at Village– Brahmandungri, Tehsil- Rajnagar, District – Saraikela-Kharsawan, State- Jharkhand, Proposed by M/s Ganga Engineering.
2	Lessee:	: M/s Ganga Engineering, Authorized Signatory- Mr. Jitendra Agarwal Garg
3	Lease Address	: Village– Brahmandungri, Tehsil- Rajnagar, District – Saraikela-Kharsawan, State- Jharkhand
4	Lease Area	: Ha: 31.36 Acres: 77.49
5	Type of Land	: Non-Forest
6	Project Cost	: Rs. 1.518 Crore

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7	EMP Budget	:	Capital: Rs. 15.80 Lakhs Proposed
8	New or Expansion	:	Violation
9	Mineable Reserves	:	Cu.M.: 309114.2 Tonnes: 695506.95
10	Mine Life	:	17 Years
11	Manpower	:	Direct- 50 Indirect- 100-150
12	Water Requirement	:	26.9 KLD (Drinking: 2.0 KLD, Dust Suppression: 24 KLD & Plantation: 0.9 KLD)
13	Water Source	:	Supplied through authorized tankers
14	DG Set / power	:	Not Applicable
15	Crusher	:	Not Applicable
16	Nearest Water Body	:	Kharkai River - 3.5 km N Sitarampur Reservoir – 6.7 km NW Bhangbanga Nadi – 8.1 km SW
17	Nearest Habitation	:	Bamdih – 0.46 km NW
18	Nearest Rail Station	:	Adityapur Railway Station – 6.5 km NNE Direction
19	Nearest Airport	:	Sonari Airport: 10 km in NNE Direction Birsamunda Airport: 108 km in NW Direction
20	Nearest Forest	:	Nandu PF – 1.6 km NE Kudada RF – 0.47 km SE Gotigoratola – 4.9 km SE Daraimachh PF – 1.5 km SW
21	Road & Highways	:	SH 6 – 4.7 km NE Rajnagar Jugsalai Road – 2.0 km NW

CO-ORDINATES

1	Latitude	:	From 22°43' 8.204"N	To 22°43' 33.860"N
2	Longitude	:	From 86° 08' 52.810"E	To 86° 08' 53.837"E

LAND DETAILS:

Khata No.	Khasra No.	Khata No.	Khasra No.
1	354, 355, 363, 365	27	316, 341, 343
4	338, 348	38	357, 358
8	302, 369, 370	41	339, 345, 259, 260, 261, 262, 263, 264, 323, 330, 334, 335, 356
10	272, 277, 282, 289, 307	54	238, 239
11	293, 294	57	241
12	290, 276	58	303, 304, 305, 310, 361, 362
13	292	59	318, 360
14	321, 322, 324, 325, 336, 236,	60	344, 351, 352

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	237, 242		
16	340	61	328, 342, 327, 353, 371, 372
17	243	64	373
20	273, 274, 288, 295, 297, 300	65	271
20	279, 280, 284, 283, 287, 306, 308	66	376
21	268, 281	67	375
25	245, 347, 349, 337, 244, 256, 257, 258, 265, 346, 251, 252, 253, 254, 255, 246, 247, 248, 249, 250	76	319, 320, 326, 359, 367, 374, 315, 377, 240, 266, 267, 275, 298, 301, 309, 311, 317, 350

STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Mining lease was granted to M/s Ganga Engineering and the mining lease Brahmandungri Soapstone mine lease deed was executed on 07.03.2005 for a period of 20 years over an extent of 31.36 Ha.
2	CO	:	<p>The CO, Gamharia vide letter no. : 1097, dated 29.10.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II. CO, Gamharia has also mentioned that the 15 houses exist at a distance of 200 m in North side, 15 houses at a distance of 25 m in East side and 08 houses at a distance of 35 m in West side.</p> <p>The total lease area is 77.46 acre whereas the mining quarry area at conceptual stage will be 23.71 acres.</p> <p>The PAs have submitted as follows :</p> <p>Mitigation measures for nearby habitation :</p> <ul style="list-style-type: none"> • Obtained NOC from gram sabha for operation of the Soap Stone Mines. • Mine pit even at ultimate stage is more than 100 m from the mine boundary in direction of nearby habitations. • Green belt of minimum 30 m (including safety zone of 7.5 m) will be developed along the mine boundary in the said directions. • Only manual mining is proposed. No drilling or blasting – thus minimum noise & vibration envisaged at habitations. • Regular water sprinkling will be done for dust suppression

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			due to mining activities.
			<ul style="list-style-type: none"> Transportation of materials will not be done on the roads passing through these habitations.
3	DMO	:	DMO, Saraikela-Kharsawan vide letter no. 341/M, dated 06.06.2019 certified that no other mining lease area exists within 500 m radius from project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. : 87, dated 29.01.2022 certified that the proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Seraikela Forest Division vide letter no. : 164, dated 27.01.2022 certified that the distance of notified forest is more than 250 m from project site.
6	DSR	:	The project is already mentioned in District Survey Report of West Singhbhum.
7	Gram Sabha	:	Gram Sabha conducted on 05.01.2022.
8	Mine Plan Approval	:	Mine plan approved by Deputy Director Mines, Kolhan Circle, Chaibasa vide letter no. 14/DDM, dated 06.01.2023.

WORKING DETAILS

1	Mining Method	:	Opencast Manual Mining
2	Quarry Area	:	End of Life – 9.60 ha Life of Mine – 17 Year
3	Waste Generation	:	5 years–31736 m ³
4	Stripping Ratio	:	1:0.19
5	Size of the Bench	:	1.5 m x 1.5 m
6	Working Days	:	300 days/year
7	Elevation range of the mine site	:	Minimum- 213 m RL Maximum- 945 m RL
8	Topography of Mine	:	Gently Slope
9	Explosive Requirement	:	Not applicable
10	Diesel/Fuel requirement	:	Not applicable due to manual mining

Production Details:

Year	Soil in m ³	O.B. in m ³	Wastes in m ³	Total Wastage in m ³	Total Soapstone in Tonnes
2020-21	00	00	00	00	00

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2021-22	00	00	00	00	00
2022-23	9790.50	3916.20	00	13706.70	35245.80
2023-24	00	4300.50	00	4300.50	38704.50
2024-25	00	4758.00	00	4758.00	42822.00
Total	9790.50	12974.70	00	22765.20	116772.30

LAND USE

Sr. No	Activity	Present Land Use (ha)	After Five Year Land Use (ha)	At the end of lease period ha.
1.	Quarry	0.35	0.86	9.60
2.	Soil Dump	0.05	0.27	Nil
3.	Waste Dump including Parapet Wall & Garland Drain	Nil	0.59	Nil
4.	O.B Dump	0.07	Nil	Nil
5.	Mineral Stack	0.22	0.22	Nil
6.	Road	0.56	0.65	0.12
7.	Green Belt	Nil	1.08	2.89
8.	Total area in use	1.25	3.67	12.61
9.	Gairmazarua & Raiyati Land	30.11	27.69	18.75
Grand Total		31.36	31.69	31.36

ENVIRONMENT MANAGEMENT

Green Belt Development

Year	Location	No. of Sapling to be Planted	Species	Place of Plantation
2020-21	Along Safety Barrier	Nil	Neem, Peepal, Mango, Shisham, Sirish, Babool,	Along the roads, safety barrier, on dumps
2021-22	Along Safety Barrier	Nil		

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2022-23	Along Safety Barrier	200	Gulmohar	
2023-24	Along Safety Barrier	200		
2024-25	Along Safety Barrier	200		

Solid Waste Management

Year	Soil in m ³	O.B. in m ³	Wastes in m ³	Total Wastage in m ³
2020-21	3559	1109	1119	5787
2021-22	00	6968	1039	8007
2022-23	00	8636	1127	9763
2023-24	4167	7797	1112	13076
2024-25	3569	7226	1104	11899
Total	11295	31736	5501	48532

Water Pollution Control Measures:

- The Ultimate Area of the Quarry will be 9.60 Ha at the end of life.
- Mining operation will be restricted to the depth of 25 meter from surface level.
- The clogged water during rainy season will be pumped out from the quarries and will be tested before discharge to nearby cultivated field. Apart from this, there is no change on water environment.
- There will be no wastewater generated from the mining operations. Only domestic waste water will be generated, which will be treated in septic tank/soak pits.

SW & GW Management:

1. Mining will not intersect the ground water table during the plan period.
2. The mining will not have any impact on the topography and the natural drainage of the surrounding area.

Air Pollution Control Measures:

- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation, through village roads, emphasis will be given on the following points:







1. Tractors-dumper will be well maintained from time to time and PUC certified vehicles will be used.
2. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
3. Minimum use of horns in the village area and silence zone (if any) as applicable.

Noise Pollution Control Measures:

1. Proper maintenance of all machines will be carried out, which help in reducing the generation of noise during operations.
2. Only transportation vehicles, for loading will be allowed.
3. Noise generated by equipments is intermittent and does not cause much adverse impact.
4. Periodical monitoring of noise will be done to adopt corrective actions wherever needed.
5. Plantation will be taken up along the approach roads. The plantation minimizes propagation of noise and also arrests dust.

Topsoil Management:

- Yearly generation of soil/ fines will be used for plantation and as a upper layer on the dumps. Top soil (if any) will be stacked in the area in area earmarked for stacking.
- There are no toxic elements present in the mineral which may contaminate the soil or water.

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. 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.
- f. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- g. 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.
- h. If any tree felling is required permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its 102nd meeting held on 21st, 22nd, 23rd, 24th and 25th March, 2023, the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study and alongwith following specific condition as recommended by SEAC. SEIAA, Jharkhand has approved the ToRs in its 103rd meeting held on 01st & 02nd April, 2023.







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

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

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10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

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19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.



25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
29. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
30. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
31. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.

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35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39. 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.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. Besides the above, the below mentioned general points are also to be followed :-
 - a. Executive Summary of the EIA/EMP Report.
 - b. All documents to be properly referenced with index and continuous page numbering.
 - c. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
 - e. Where the documents provided are in a language other than English, an English translation should be provided.
 - f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.



- g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF & CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation
 - i. As per the circular no. J-11011/618/2010-IA.II (I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
45. 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.

Specific Condition:

1. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
2. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
3. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
4. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
5. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A







detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".

6. Management of solid waste and the Construction & Demolition waste for the project vis-a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
7. Details of all construction input should be furnished for assessment of Ecological damage/Environmental damage.
8. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
9. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
10. The Prescribed ToRs 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.

Sd/-

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

Memo No : EC/SEIAA/2022-23/2769/2023/ 24/

Dated: 12/04/2023

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
2. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

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