



File No: EC/SEIAA/2026-27/5011/2026

State Environment Impact Assessment Authority (SEIAA), Jharkhand

(Constituted as per the provision of EIA Notification, 2006, as amended by the Ministry of Environment, Forest and Climate Change, Government of India)



Dated: 11/08/2026

To,

LALAN KUMAR SINGH
LALAN KUMAR SINGH
BHUSAI HAZARIBAGH, JHARKHAND, HAZARIBAGH, JHARKHAND, 825402
pirthibandh@gmail.com

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project Chakarbarai Stone Deposit (Area – 1.870 ha. or 4.62 Acre) submitted to Ministry vide proposal number SIA/JH/MIN/583234/2026 dated 06/07/2026.

2. The particulars of the proposal are as below:

(i) TOR Identification No.	TO26B0108JH5703006N
(ii) File No.	EC/SEIAA/2026-27/5011/2026
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Name of Project	Chakarbarai Stone Deposit (Area – 1.870 ha. or 4.62 Acre)
(vii) Name of Company/Organization	LALAN KUMAR SINGH
(viii) Location of Project (District, State)	GIRIDIH, JHARKHAND
(ix) Issuing Authority	SEIAA
(x) Applicability of General Conditions	no
(xi) Applicability of Specific Conditions	no

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the SEIAA Appraisal Committee (SEIAA) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by SEIAA Appraisal Committee of SEIAA in the meeting held on 27/07/2026. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
5. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A, B and C)/EIA & EMP Reports/presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on 27/07/2026, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Terms of Reference under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (2).
7. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEIAA Appraisal Committee hereby decided to grant Terms of Reference for instant proposal of M/s. LALAN KUMAR SINGH under the provisions of EIA Notification, 2006 and as amended thereof.
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Terms of Reference to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. This issues with the approval of the Competent Authority.

Copy To

1. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
2. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
3. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in

Annexure 1

Standard Terms of Reference for (Mining of minerals)

1.

S. No	Terms of Reference
1.1	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

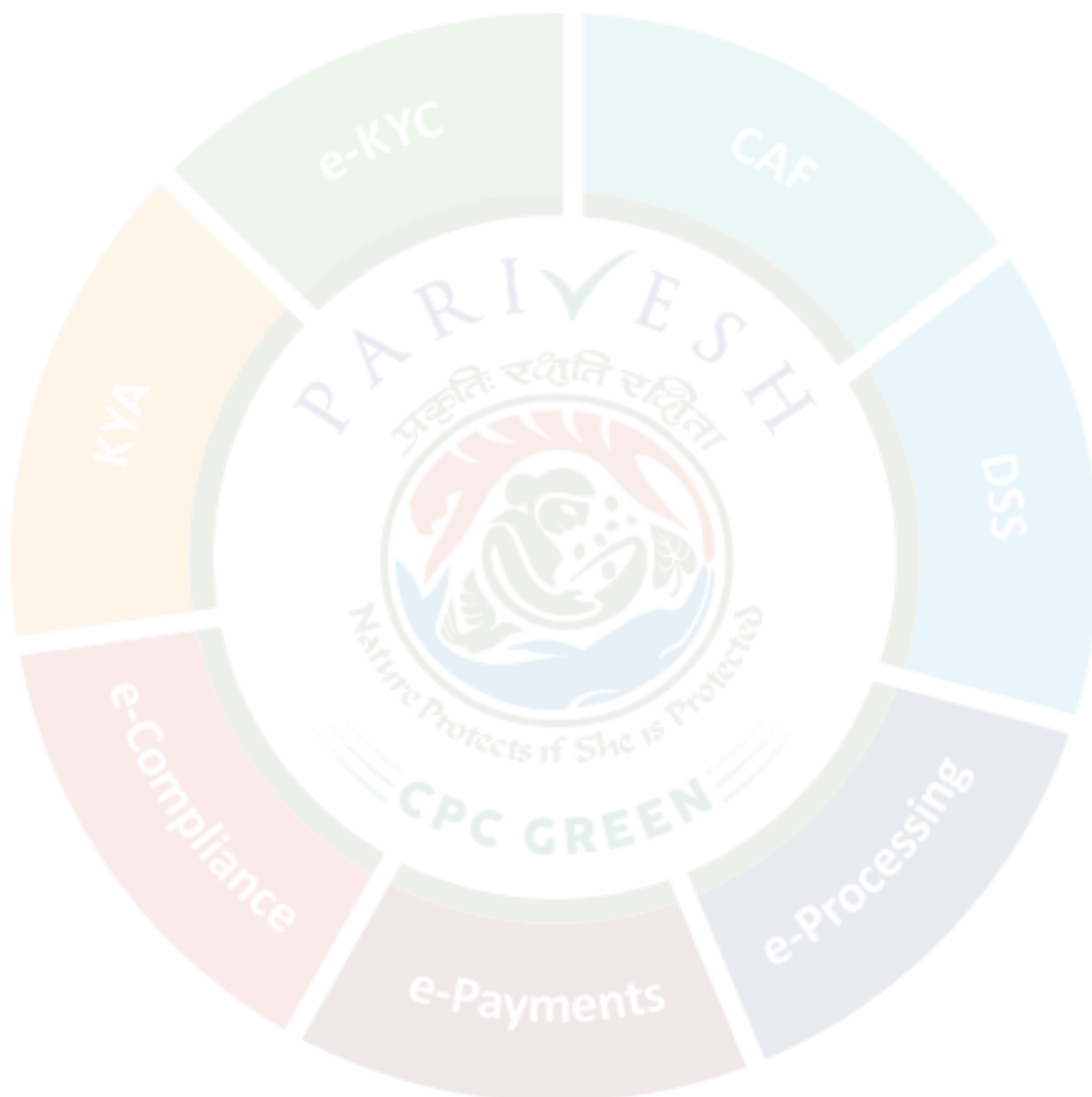
Additional Terms of Reference

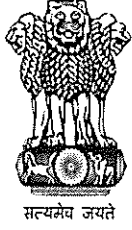
N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Stone	Stone	72141	Tons per Annum (TPA)	Road	





State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834 004

E-mail: msseiaa.jhk@gmail.com / website: www.jseiaa.in

Letter No.- EC/SEIAA/2026-27/5011/2026/

Ranchi, Date :

To: M/s Ganpati Minerals

Partners : (i) Shri Ramchandra Mehta,
(ii) Shri Lalan Kumar Singh (iii) Shri Arvind Kumar,
Village : Bigha, P.O. : Fulwari, P.S. : Nawalsahi,
District : Koderma, Jharkhand.

Sub: Prescribing of ToR to "Chakarbarai Stone Deposit of M/s Ganpati Minerals (Partners : (i) Shri Ramchandra Mehta (ii) Shri Lalan Kumar Singh (iii) Shri Arvind Kumar), Village : Chakarbarai, Thana : Dumri, Distt.: Giridih, Jharkhand (1.870 Ha). (Proposal no.: SIA/JH/MIN/583234/2026) – regarding.

Ref: Your application no. Nil, dated – 06.07.2026.

Sir,

It is in reference to the project to "Chakarbarai Stone Deposit of M/s Ganpati Minerals (Partners : (i) Shri Ramchandra Mehta (ii) Shri Lalan Kumar Singh (iii) Shri Arvind Kumar), Village : Chakarbarai, Thana : Dumri, Distt.: Giridih, Jharkhand (1.870 Ha)" along with the application in the prescribed format (Form-1) and a copy of the pre-feasibility report and approved mine plan to prescribe the ToRs for undertaking detailed EIA study for the purpose of obtaining environmental clearance under the provisions of the EIA Notification, 2006 in respect of the above mentioned project.

This is a new project which has been taken for appraisal on 09.07.2026.

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

Application for Terms of Reference (ToR).

ToR Application for: Proposed Capacity –26719 cum/annum or 72141 TPA.

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Chakarbarai Stone Deposit
2	Lessee:	: M/s Ganpati Minerals Partner- Sri Ramchandra Mehta (2) Lalan Kumar Singh (3) Sri Arvind Kumar Village- Bigha, PO- Fulwari, PS- Nawalsahi,

			District – Koderma, Jharkhand
3	Lease Address	:	Mouza – Chakarbarai, Thana – Dumri, District – Giridih, State - Jharkhand
4	Lease Area	:	1.870 Ha Acres- 4.62Acres
5	Type of Land	:	Non- Forest (Raiyati Land)
6	Project Cost	:	Rs. 82,97,400/-
7	EMP Budget	:	Capital: Rs. 15,57,400/- Recurring: Rs. 9,26,400/-
8	New or Expansion	:	New
9	Mineable Reserves	:	241626 cum Tonnes:652390 tones
10	Mine Life	:	10 years
11	Man power	:	15
12	Water Requirement	:	14.26 KLD (Drinking: 0.15 KLD, Dust Suppression:0.93KLD, Plantation:13.18 KLD)
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 nallah - approx 210 meter, West direction as per KMLEMP Submitted.
17	Nearest Habitation	:	Approx, 420 meter towards ENE direction as per Google earth EMP submitted.
18	Nearest Rail Station	:	Parasnath railway station which is about 3.4 Km towards WNW direction from the applied lease area.
19	Nearest Air Port	:	Deoghar Airport approx. 82.23 km towards ENE direction.
20	Nearest Forest	:	Protected Forest- Approx. 0.81 km towards ENE direction. Protected Forest- Approx. 2.20 km towards ESE direction. Protected Forest - Approx. 2.70 km towards WNW direction. Protected Forest- Approx. 1.71 km towards NNE direction. Protected Forest- Approx. 1.31 km towards NNE direction. Parasnath Hill Forest -Approx. 2.2 km towards East direction
21	Road & Highways	:	NH-19 at about 2.4 km on South-west direction
22	Approach road	:	Approx. 155 m
23	Cluster Certificate	:	Total Five minelease exists within 500m radius which is total of 25.46 acre or 10.30 hectare
24	Nearest Forest	:	The distance of reserved / protected forest is 420m from proposed project site as per Divisional Forest Officer, Giridih East Forest Division vide letter no.:300, dated 07.02.2025
25	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 10.85 KM from the nearest Eco Sensitive Zone of Topchanchi wildlife Sanctuary.

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CO-ORDINATES

Point	Latitude	Longitude
P1	23° 58' 53.281" N	86° 4' 14.247" E
P2	23° 58' 52.834" N	86° 4' 15.352" E
P3	23° 58' 52.387" N	86° 4' 15.676" E
P4	23° 58' 52.295" N	86° 4' 16.366" E
P5	23° 58' 51.709" N	86° 4' 17.363" E
P6	23° 58' 52.188" N	86° 4' 17.688" E
P7	23° 58' 51.709" N	86° 4' 18.787" E
P8	23° 58' 50.893" N	86° 4' 20.279" E
P9	23° 58' 50.807" N	86° 4' 19.903" E
P10	23° 58' 50.580" N	86° 4' 19.775" E
P11	23° 58' 50.623" N	86° 4' 19.682" E
P12	23° 58' 49.991" N	86° 4' 19.358" E
P13	23° 58' 49.961" N	86° 4' 18.186" E
P14	23° 58' 49.166" N	86° 4' 19.105" E
P15	23° 58' 49.513" N	86° 4' 19.492" E
P16	23° 58' 49.081" N	86° 4' 20.200" E
P17	23° 58' 48.797" N	86° 4' 20.129" E
P18	23° 58' 48.862" N	86° 4' 20.715" E
P19	23° 58' 48.653" N	86° 4' 20.938" E
P20	23° 58' 48.303" N	86° 4' 20.847" E
P21	23° 58' 48.140" N	86° 4' 20.718" E
P22	23° 58' 47.636" N	86° 4' 20.663" E
P23	23° 58' 47.498" N	86° 4' 20.866" E
P24	23° 58' 47.333" N	86° 4' 20.834" E
P25	23° 58' 47.480" N	86° 4' 20.496" E
P26	23° 58' 47.394" N	86° 4' 19.858" E
P27	23° 58' 47.246" N	86° 4' 19.503" E
P28	23° 58' 47.395" N	86° 4' 19.169" E
P29	23° 58' 47.441" N	86° 4' 18.311" E
P30	23° 58' 47.509" N	86° 4' 18.340" E
P31	23° 58' 47.710" N	86° 4' 17.379" E
P32	23° 58' 47.875" N	86° 4' 16.961" E
P33	23° 58' 47.850" N	86° 4' 16.725" E
P34	23° 58' 48.243" N	86° 4' 16.823" E
P35	23° 58' 48.513" N	86° 4' 16.835" E
P36	23° 58' 48.837" N	86° 4' 17.009" E
P37	23° 58' 49.110" N	86° 4' 16.590" E
P38	23° 58' 49.185" N	86° 4' 16.089" E

02/11/2026

1

2p

P39	23° 58' 49.369" N	86° 4' 15.807" E
P40	23° 58' 49.257" N	86° 4' 15.475" E
P41	23° 58' 49.559" N	86° 4' 15.421" E
P42	23° 58' 49.817" N	86° 4' 14.812" E
P43	23° 58' 50.084" N	86° 4' 14.863" E
P44	23° 58' 50.497" N	86° 4' 14.822" E
P45	23° 58' 50.909" N	86° 4' 14.647" E
P46	23° 58' 51.229" N	86° 4' 14.600" E
P47	23° 58' 51.294" N	86° 4' 14.262" E
P48	23° 58' 51.422" N	86° 4' 14.053" E
P49	23° 58' 51.846" N	86° 4' 14.078" E
P50	23° 58' 52.034" N	86° 4' 13.772" E
P51	23° 58' 52.583" N	86° 4' 13.769" E
P52	23° 58' 53.118" N	86° 4' 13.847" E
P53	23° 58' 53.135" N	86° 4' 14.360" E

LAND DETAILS

Khata no.	Plot no.
66, 61, 24, 20, 19, 17, 38, 56 & 34	247, 249 (P), 250, 251, 252, 253, 254, 255, 256, 272, 273, 274, 280, 281, 282, 428, 429, 430, 431, 432, 433 & 434 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, vide letter no. 253/M dated 09.04.2026.
2	CO	:	The CO, Dumri (Giridih) vide letter no. 135, dated 11.02.2025 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon and also mentioned that the Nala at a distance of 250 meters of proposed project site. During the appraisal it was seen from the KML that few houses at a distance of 490 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Giridih vide memo no. 477/M, dated 18.06.2026 certified that 01 other mining lease area (4.6350 Acre) and 03 LoI (6.11 Acre, 3.88 Acre & 6.22 Acre) exists within 500 m radius from proposed project site and total area is 25.465 Acre.

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4	DFO Wild Life	:	Divisional Forest Officer, Wildlife Division, Hazaribag vide letter no. 2136, dated 01.10.2024 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Territorial	:	DFO, Giridih East Forest Division vide letter no. 300, dated 07.02.2025 certified that the distance of notified forest is 420 meters from proposed project site.
6	DSR	:	DMO, Giridih has certified vide memo no. 537/M, dated 07.07.2026 that village Chakarbarai is identified and approved as potential village of approved DSR of Giridih District.
7	Gram Sabha	:	BDO, Dumri vide letter no. 251, dated 13.02.2025 informed that Gram Sabha conducted on 05.02.2025.
8	Mine Plan Approval	:	Mine plan approved by DMO –cum- DDM, Deputy Director of Mines Office, Dhanbad Circle, Dhanbad vide memo no. 159/DDM, dated 05.06.2026.
9	Qualified Person	:	Shri Vidya Bhushan Mishra through letter dated 08.07.2026 affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast semi mechanized method	
2	Quarry Area	:	1.321 acres	Life of Mine – 10 Years
3	Waste Generation	:	Total 20328cum in situ waste shall be generated during the plan period.	
4	Stripping Ratio	:	1: 0.062	
5	Working Days	:	300	
6	Benches: size & No	:	6m to 6m	
7	Elevation of Mine	:	295AMSL to 289 AMSL	
8	Ground Level Elevation	:	289 AMSL	
9	Ultimate Working Depth	:	Up to 250 AMSL (39 mbgl)	
10	Water Table	:	220-217 AMSL (69-72mbgl)	
11	Topography of Mine	:	The applied lease area represents a small hillock.	
12	Explosive Requirement	:	100 kg/day	
13	Diesel/Fuel requirement	:	110 litre/day	

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Production Details

Year	Production of Stone in cum	production of stone in Tonnes	Overburden in cum	Intercalated waste in cum	Total waste in cum
1st Year	22230	60021	10875	1170	12045
2nd Year	23299	62907	3075	1226	4301
3rd Year	23940	64638	0	1260	1260
4th Year	25009	67524	0	1316	1316
5th Year	26719	72141	0	1406	1406
Total	121197	327231	13950	6378	20328

Land Use

Land Utilization	Existing Land use (Ha)	At the end of plan period (Ha)	At Conceptual period (Ha)
Excavation	0.0	0.809	1.312 (0.157 ha area shall be Backfilled, 0.692 ha converted in to water reservoir & 0.464 ha shall be left as dead benches)
Waste Dump	0.0	0.220	Nil (comes under quarry)
Mine Road	0.0	0.008	Nil (comes under quarry)
Crusher	0.0	0.0	0.0
Safety Zone Plantation	0.0	0.558	0.558
Total	0.0	1.595	1.870
Unused Area	1.870	0.275	0.00
Total Lease Area	1.870		

ENVIRONMENT MANAGEMENT Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.558	893	1600 Tree per Hectare	1st Year	Pipal, Gulmohar Jackfruits, Mango, Jamun, Babul, Neem, Arjun, etc.
Length of Approach Road Area (m.)	155	310	2m X 2 m spacing in two rows both side		
Plantation at Backfilling	0.157	252	1600 Tree per Hectare	At the end of Plan	

Plantation at Dead Bench	0.464	743		Period	
Total		2198			

- 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 RS)

PROJECT COST

Particulars			Capital(Rs.)	Recurring(Rs.)
Land			46,20,000.00	4,62,000.00
Infrastructure			15,00,000.00	1,50,000.00
Mining Equipment			0.00	45,00,000.00
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Excavator	1	4,00,000		
Rock Breaker	1	2,00,000		
Compressor	1	10,00,000		
Dumper	1	2,00,000		
Loader	1	3,00,000		
Water Sprinkler	1	6,00,000		
Loader	1	3,00,000		
DG Set	1	15,00,000		
@Per Excavator-4,00,000/- @Rock Breaker -2,00,000/- @Per Compressor-10,00,000/- @Per Water Sprinkler -6,00,000/- @Per Dumper-2,00,000/- @Per Loader-3,00,000/- @DG set -15,00,000/-				
Water Facility for Domestic Purpose "0.15" KLD (Annual Water Demand "45"KL @4L per person , total number of tanker required ("12") and per tanker cost @Rs. 500)			0.00	6000.00
Statutory Clearances.			5,00,000.00	0.00

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Mine Closure Cost for fencing around mine.	1,20,000.00	0.00
Environment Management Plan (EMP) Cost	15,57,400.00	9,26,400.00
Total	82,97,400.00	60,44,400.00

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital	Recurring
2198 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	659400	109900
Water Tanker @Rs. 500 per Tanker for Dust Suppression (0.93 KLD) & Horticulture (13.18KLD) $0.93 + 13.18 = 14.11$ KLD $14.11 \text{ KLD} \times 300 \text{ Days} = 4233 \text{ KLD}$ $4233 \text{ KLD} / 4 \text{ KLD} = 1059 \text{ Tankers}$	0	529500
Environment Monitoring & Compliance	0	50000
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	748000	187000
Garland Drain & Retaining wall for Seasonal Nallah	150000	50000
Total	15,57,400	9,26,400

Note: Detail Breakup will be given at the time of Final EIA

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

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Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	- In this applied lease area, the stone deposit is covered with 2m layer of gritty intermixed soil which considered as over burden. The recovery of stone is about 95%, thus intercalated waste of only 5% shall be generate from this mine. - It has been calculated that total 20328 cum in-situ waste shall be generated during this plan period out of which 12191 cum (In situ) shall be utilized for approach & haul road maintenance. - The rest waste material 8138 cum in situ 9792.89 cum loose & 8323.96 cum compact waste shall be temporary dumped on the southern part of the applied lease area and it will cover about 0.220 ha area. - While excavation of insitu waste, its volume shall be increase, as it becomes loose (insitu cum X 1.25), during the dumping/backfilling these loose materials shall be compacted with the use of dozer and volume will be decreased up to 85% of loose waste. Garland drain shall be provided along the OB dump. - This drain would collect surface run off from dump body. Water collected in this drain would be stored in a sedimentation tank, the treated water shall be released for natural runoff.
Air Quality Management	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	- 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	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.

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	• Use of delayed blasting technique to minimize the adverse impact of vibration.
Soil Quality Management	• 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	• 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:	• 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:	• 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	Activities which are likely to create risk are: Temporary Storage of Explosives, Charging of Explosives, Blasting, Drilling, Bench Formation, Loading / Unloading, Transportation Proposed Preventive measures: ▪ 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.

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	▪ 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	▪ 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	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

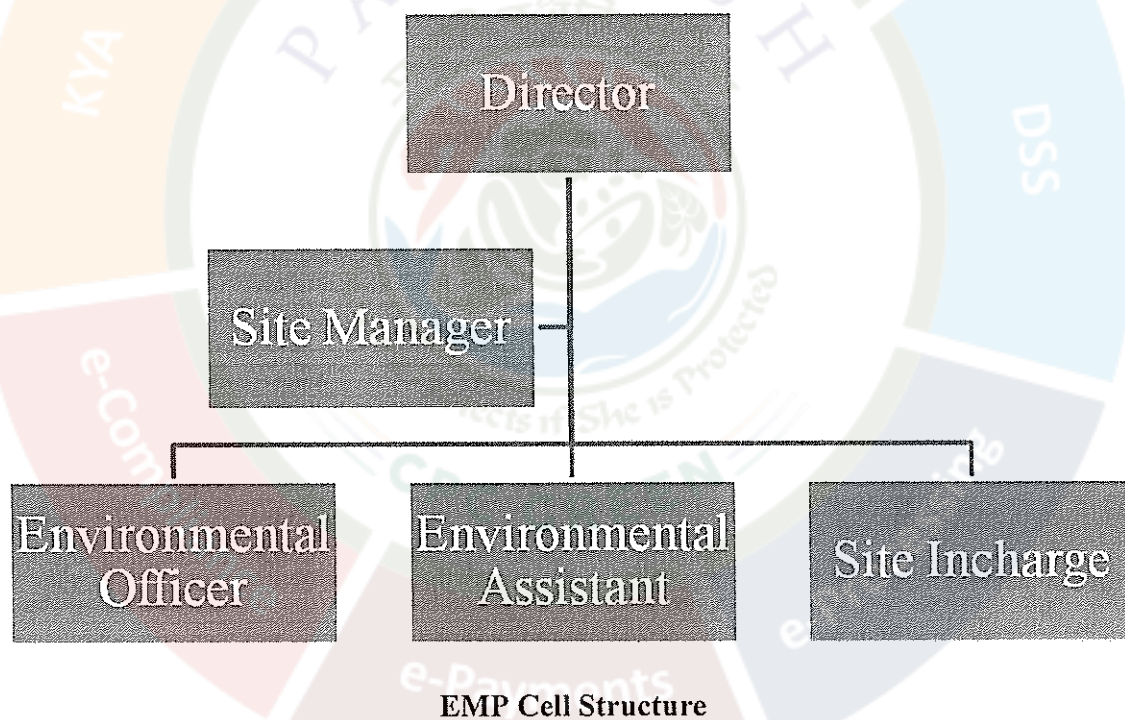
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	will only be used as a last resort and as an interim arrangement until other steps are taken to reduce the risk of personal injury to an acceptable level
Accident Prevention	▪ Mine road shall be made smooth regularly with a road roller. ▪ Mine road 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:



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.

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Undertaking submitted affirming:

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

SEAC, Jharkhand has suggested the ToRs in its 133rd meeting held on 08th, 09th, 10th, 11th and 12th July, 2026 in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC OM dated 12.12.18 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has approved the ToRs in its 133rd meeting held on 27th, 28th & 29th July, 2026.

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

Specific Conditions:

1. The directions proscribed and prescribed in the Office Memorandum No. FC-11/119/2020-FC, Dated : 17th May, 2022 of MoEF&CC shall be strictly adhered to.
2. This ToR is subject to interim order dated 28.04.2026 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. 4. *Accordingly, in Paragraph-2 of our order, the name of Mr. Sunil Kumar should be substituted by Mr. Bhanu Kumar and the word 'Jharkhand State Pollution Control Board (JSPCB)' must be substituted by "SEIAA". Similarly, in Paragraph-11, the name of 'Mr. Sunil Kumar' should be substituted with "Mr. Bhanu*

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Kumar” and the expression ‘JSPCB’ must be substituted by “SEIAA”. In Paragraph 62(b) in line-2, the number ‘500’ should be substituted with “400” and in line-4, the number ‘400’ must be substituted with the number “500”.

3. The detailed EMP is to be prepared for the Habitation and Barsati Nala existing within an area of 500 meter radius of proposed project boundary. This EMP is to be included in EIA report.
4. 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.
5. This TOR letter is subject to Hon’ble NGT order dated 13.09.2018, order dated : 11.12.2018 and MoEF & CC OM dated : 12.12.2018.
6. 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.
7. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
8. 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.
9. 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).
10. 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.
11. 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.
12. 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

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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.

13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
21. 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.
22. 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.



23. 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.
24. 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.
25. 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).
26. 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.
27. 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.
28. 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.

29. 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.
30. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.

38. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
46. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
47. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
48. 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.
49. 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.
50. 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.
51. 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/2026-27/5011/2026/ 129

Dated: 07.08.2026

Copy to:

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

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2. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
3. Member Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

