



File No: EC/SEIAA/2024-25/3572/2024

## 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 **26/05/2026**



To,

Saroj Minj  
Saroj Minj  
Gaon - Karaundajor, Post - Karaundajor, Thana - Bharno, Gumla, Jharkhand, GUMLA, JHARKHAND,  
835207  
karondajorstone.ec@gmail.com

**Subject:** Grant of prior Environmental Clearance (EC) to the proposed Mining Project under the provisions of EIA Notification 2006-regarding

**Sir/Madam,**

This is in reference to your application submitted to SEIAA vide proposal number SIA/JH/MIN/566440/2026 dated 13/02/2026 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26B0108JH5430837N
(ii) File No.	EC/SEIAA/2024-25/3572/2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Karondajor Stone Mine
(viii) Location of Project (District, State)	GUMLA, JHARKHAND
(ix) Issuing Authority	SEIAA
(x) Applicability of General Conditions	No

**Plot/Survey Khasra Nos.:**

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA

notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 29/04/2026. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above. Brief description of the project is as under: Stone is one of the important industrial minerals which will be use as construction material
5. Details of the minerals to be mined along with production capacity and the brief on the salient features of the project as submitted by the project proponent in Form 1 (Part A and B) in the reports and as presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on 29/04/2026, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the SEIAA hereby accords Environment Clearance for the instant proposal to M/s. Saroj Minj under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (2)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance 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. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. Validity of EC is upto 13/02/2026 from which the prior environmental clearance is granted by the regulatory authority.
12. General Instructions:
  1. 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 SEIAA website where it is displayed.
  2. 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 must display the same for 30 days from the date of receipt.
  3. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.
  4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
  5. 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.

6. The Regional Office of this SEIAA shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

7. 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.

13. This issue with an approval of the Competent Authority.

**Copy To**

N/A

**Annexure 1**

**Standard EC Conditions for (Mining of minerals)**

**1. Statutory Compliance**

<b>S. No</b>	<b>EC Conditions</b>
<b>1.1</b>	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 Judgment 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.
<b>1.2</b>	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (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."
<b>1.3</b>	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.
<b>1.4</b>	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.
<b>1.5</b>	This Environmental Clearance (EC) is subject to orders/ judgment of Honble Supreme Court of India, Honble High Court, Honble NGT and any other Court of Law, Common Cause Conditions as may be applicable.

**Additional EC Conditions**

N/A

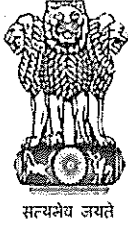
**Annexure 2**

**Details of the Project**

S. No.	Particulars	Details	
a.	Details of the Project	Karondajor Stone Mine	
b.	Latitude and Longitude of the project site	23.09869203357416,84.80931839008247 23.10098206728126,84.81252440642788	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	Area in Ha
		Non-Forest Land (A)	0
		Forest Land (B)	
		Total Land (A+B)	4.65
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	140	
g.	EMP Cost (in lacs)	17.63	
h.	Employment Details		

**Details of Minerals Products & By-products**

Name of the Mineral to be mined	Classification of mineral [Major/Minor]	Production capacity in MTPA	Remarks
Stone	Minor	211561.2	



**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](mailto:msseiaa.jhk@gmail.com) / website: [www.jseiaa.in](http://www.jseiaa.in)

Letter No.- EC/SEIAA/2024-25/3575/2024/ 24

Ranchi, Date : 15.05.2026

To: Smt. Saroj Minz,  
At Village + P.O. : Karondajor,  
Thana : Bharno, District : Gumla, Jharkhand,

Sub: Environmental Clearance for the project "Karondajor Stone Mine of Smt. Saroj Minz at Village : Karondajor, Thana : Bharno, District : Gumla, Jharkhand (4.65 Ha) (Proposal no.: SIA/JH/MIN/ 566440 /2026)" – regarding.

Ref: Your application no. Nil, dated – 02.02.2026.

It is in reference to "Karondajor Stone Mine of Smt. Saroj Minz at Village : Karondajor, Thana : Bharno, District : Gumla, Jharkhand (4.65 Ha)" submitted by you for seeking prior Environmental Clearances (EC).

**Application for Environmental Clearance after Terms of Reference (ToR) (re-appraisal of Environment Clearance issued by DEIAA, Gumla).**

The project has been granted EC by DEIAA, Gumla vide letter no. EC/DEIAA/2016-17/0017/2017/16/EC, dated 25.03.2017.

As per O.M. dated 28<sup>th</sup> 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, Gumla which was listed for consideration on 18.02.2026 but on the request of PAs it has been taken up for consideration on 20.02.2026. As per O.M. dated 12.12.18 issued by MOEF & CC projects fall in category B1.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 121<sup>st</sup> meeting held on 08.03.2025 - 12.03.2025 and SEIAA, Jharkhand has approved the ToRs in 121<sup>st</sup> meeting held on 19<sup>th</sup> & 20<sup>th</sup> March, 2025. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3575/2024/709, dated 20.03.2025. The final EIA / EMP submitted by PP to SEAC on 02.02.2026.

Dust suppression is being carried out on regular basis.

Greenbelt Developed.

Production detail as per memo no. 64, dated 15.01.2025 by DMO, Gumla is within the permissible limit of EC.

The compliance report of previous EC has been issued by Scientist –cum- Divisional Head, JSPCB, Ranchi vide letter no. 434, dated 19.02.2026

The SEAC has found that the certification of the compliance of the conditions of previous EC is not appropriate regarding status of execution of compliance as no details have been provided. Hence, the Committee decided to obtain a self certified compliance report along with the supporting details as evidence of execution.

The self certified compliance report has been submitted and also presented before the Committee.

EC Application for: Proposed Capacity- 78356.00 cum/annum or 211561.20 TPA

**Project and Location Details:**

Sl	Parameter	Details	
1	Project Name	:	<b>Karondajor Stone Mine</b>
2	Lessee:	:	<b>Smt. Saroj Minz</b>
3	Lease Address	:	Village – Karondajor, Thana – Bharno, District – Gumla, State- Jharkhand
4	Lease Area	:	4.65 ha                      Acres- 11.50 Acres
5	Type of Land	:	Non-Forest (Raiyati Land)
6	Project Cost	:	Rs. 2,87,77,800.00/-
7	EMP Budget	:	Capital: Rs. 29,57,800/-                      Recurring: 9,97,300.00 /year
8	New or Expansion	:	New (Re-appraisal of DEIAA EC)
9	Mineable Reserves	:	1643574tons                      608731.11 cum
10	Mine Life	:	Upto lease period i.e 30.11.2017 to 29.11.2027.
11	Man power	:	39
12	Water Requirement	:	12.39 ~ 12.50 KLD (Drinking: 0.39 KLD, Dust Suppression: 6.35 KLD, Plantation: 5.65 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	:	South Koel River, Approx. 9.80 in WSWdirection.
17	Nearest Habitation	:	Karondajor, Approx. 0.45 km in WSW direction(As per google earth; EMP Submitted).
18	Nearest Railway Station	:	Bakaspur Railway station, Approx. 19.42 km towards SE direction.
19	Nearest Air Port	:	Birsa Munda Airport, Ranchi, Approx. 57.90 km towards ENE direction.

20	Nearest Forest	:	Protected Forest, Approx. 4.1 km towards East direction of mine site.
21	Road & Highways	:	NH-43, Approx. 8.03 km. in NNW direction.
22	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 13.75 KM from the nearest Eco Sensitive Zone of Palkot Wildlife Sanctuary.

### CO-ORDINATES

1	Latitude	:	From 23°05'55.28"N	To 23°06'03.52" N
2	Longitude	:	From 84°48'33.54" E	To 84°48'45.09" E

### LAND DETAILS

Khata no.	Plot no.
167	1827 (P)

### STATUTORY CLEARANCES

1	LOI / Lease docs	:	Lease deed : 30.11.2017 to 29.11.2027.
2	CO	:	The CO, Bharno (Gumla) vide letter no. 483 (ii), dated 27.11.2024 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 450 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO	:	DMO, Gumla vide memo no. 841/M, dated 19.10.2024 certified that 04 other mining lease area (1.00 Acre, 9.00 Acre, 5.00 Acre & 11.50 Acre) exists within 500 meters radius from proposed project site and total area is 38.00 Acre (15.37 Ha).
4	DFO Wild Life	:	DFO, Wildlife Division, Ranchi vide letter no. 1014, dated 27.12.2024 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Gumla Forest Division vide letter no. 2915, dated 16.12.2016 certified that the distance of forest land is more than 250 meter from proposed project site.
6	DSR	:	This project is mentioned in approved DSR of Gumla District (Sl. No. 29, Page no. 43).

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7	Gram Sabha	:	Gram Sabha conducted on 11.11.2016.
8	Scheme / Mine Plan Approval	:	Mining scheme approved by DMO, Gumla vide letter no. 194/M, dated 14.02.2022.
9	Previous Environmental Clearance (EC)	:	Previous EC granted by DEIAA, Gumla vide letter no. EC/DEIAA/2016-17/0017/2017/16/EC, dated 25.03.2017.
10	Compliance report of EC	:	The compliance report of previous EC has been issued by Scientist –cum- Divisional Head, JSPCB, Ranchi vide letter no. 434, dated 19.02.2026.
11	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-2094234 /2018/225, dated 28.02.2018.
12	Consent to Operate (CTO)	:	CTO issued by JSPCB vide ref. no. : JSPCB/RO/RNC/CTO-12105141 /2022/95, dated 26.04.2022.
13	Production Report	:	Production report issued by DMO, Gumla vide memo no. 64, dated 15.01.2025.
14	Qualified Person	:	Shri P.K. Sen was present in the meeting and affirmed that the mine plan has been prepared by him.
15	Baseline monitoring period	:	March, 2025 to May 2025.
16	Public Hearing	:	Member Secretary, JSPCB vide Ref. no. PC/PH/RNC/20/2025/100 dated 09.01.2026 informed that Public Hearing conducted on 30.10.2025.

### Working Details

1	Mining Method	:	Opencast mechanized mining method
2	Quarry Area	:	3.92 ha
			Life of Mine –Upto lease period i.e 30.11.2017 to 29.11.2027.
3	Waste Generation	:	9122 Cum
4	Stripping Ratio	:	1:0.08
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	639 AMSL to 664 AMSL
8	Ground Level Elevation	:	639 AMSL

*(Signature)*

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9	Ultimate Working Depth	:	628 AMSL (11 mbgl)
10	Water Table	:	614-612 AMSL (25-27 mbgl)
11	Topography of Mine	:	The lease area is undulating land with rock mass.
12	Explosive Requirement	:	90kg/day
13	Diesel/Fuel requirement	:	120 litre/day

### Production Details

Year	Production of Stone in Tons As per EC Letter	Production of Stone in Tons	Production of Stone in Cum	Gritty Soil Removal in cum	Bench section
1 <sup>st</sup>	209201.40	209200	77481	4092	664-646
2 <sup>nd</sup>	210124.80	210124	77824	3873	652-646
3 <sup>rd</sup>	211479.12	211478	78325	773	658-640
4 <sup>th</sup>	211561.20	211559	78355	384	646-634
5 <sup>th</sup>	211068.72	211068	78173	-	640-634
<b>Total</b>	<b>1053435.24</b>	<b>1053429.00</b>	<b>390158.00</b>	<b>9122</b>	

As per approved mine plan production: - 78355 cum/annum or 211559 TPA

As per EC letter production: - 78356.00 cum/annum or 211561.20 TPA

### Land Use

Pattern of Utilization	Present Land Use (in Ha)	At the End of this Plan period (in Ha)	At the End of Mine (in Ha)	Conceptual Period (in Ha)	
				Water Body	Plantation
Quarry	1.123	3.640	3.92 (including Backfill 0.23 Ha.)	3.92	-
Safety Barrier	0.73 (Plantation)	0.73 (Plantation)	0.73 (Plantation)	-	0.73 (Plantation)
Dump	-	0.160	-	-	-
Parapet Wall	-	0.005	-	-	-
Garland Drain	-	0.007	-	-	-
Road	0.007	0.001	-	-	-
<b>Total area in use</b>	<b>1.86</b>	<b>4.543</b>	<b>4.65</b>	<b>3.92</b>	<b>0.73</b>

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<b>Balanced Area Unused</b>	2.79	0.107	-	-	-
<b>Total Lease area</b>	<b>4.65</b>	<b>4.65</b>	<b>4.65</b>	<b>4.65</b>	

**ENVIRONMENT MANAGEMENT**  
**Green Belt Development**

S. No.	Location	Area/Length	No. of Trees
1	Safety Zone	0.73 ha	1825 (Already done during previous year of mining)
2	Along Approach Road	450 m	900
3	No. of plants distributed with consultation local authorities /village Panchayat	Twice as per TOR point + Ek Ped Ma Ke Naam + local authorities/ village Panchayat	1825+1+100= 1926

**Note:** A total of 4,651 saplings were proposed to be planted. Out of which 1825 plant in Safety Zone area have been planted during previous year of mining. (900 plant along approach road & 100 plants with consultation from local authorities/village Panchayat + 1825 Twice as per TOR point + 1 Ek Ped Ma Ke Naam ) will be done in the first year of operation. (Total 2826 Plants)

- 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- 26.93 µg/m <sup>3</sup> to 48.39µg/m <sup>3</sup> PM10- 54.59 µg/m <sup>3</sup> to 85.96 µg/m <sup>3</sup> SO <sub>2</sub> - 5.18 to 13.63 µg/m <sup>3</sup>

		NO2- 10.42 µg/m <sup>3</sup> to 20.04 µg/m <sup>3</sup>
Noise level monitoring	8 locations	During daytime- 50.04 to 57.2 dB (A) During Night time- 36.2 to 40.8 dB (A) Results were found within permissible limits
Water samples	Surface water – 2 locations	All parameters like Dissolved Oxygen (4.2 to 4.3 mg/l), pH (7.33- 7.49), Chloride (20.6-21.0mg/l) Total Hardness (115.0-132.0mg/l), Total Dissolved Solid (275.0-285.0 mg/l), BOD (2.15-3.10 mg/l) etc. are found within permissible limits
	Ground water- 5locations	All parameters like TDS (386-510mg/l), pH (7.08 to 7.74), Total Hardness (136-174mg/l), Chloride (62.4-84.56mg/l),Fluoride(0.25-0.42mg/l),Iron (0.132-0.143 mg/l),etc. are found within permissible limits & fit for consumption.
Soil Samples	5 locations	pH- 7.35- 7.53, Conductivity- 312.0 to 492.0 µmhos/cm, Water holding capacity (25.23%-32.56%), Potassium (232.53-272.0 mg/kg),Calcium (152.43-441.00 mg/kg), Magnesium (42.16-161.06 mg/kg).

#### Issues wise Public Hearing Action Plan

S. No.	Issue	Replied by PP	(Response /Action Plan)
1.	Dust suppression	Dust suppression will be done twice a day.	Approx 4.0 Lakh has been allocated for water sprinkling. Water sprinkling will be done twice a day.
2.	Plantation	Plantation will be done.	Total Rs. 28.76 Lakh will be spent as capital cost and Rs. 2.0 Lakh will be spent as recurring cost for plantation which has also been included in EMP cost. Plantation will be done during 1st year of mining.
3.	water facility	The issue will be addressed by arranging for a bore well installation.	Installation of 02 Hand Pump with deep boring for water facility will be done for which total Rs. 2.50 lakh will be spent as capital cost and Rs 0.50 lakh will be spent as recurring cost which has also been included in EMP Cost. Hand pump

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			will be installed during 1st year of mining.
4.	Tuition teachers	A tutor will be arranged to support education.	Tuition teachers will also be arranged for education, which Rs 1.2 lakh will be spent as recurring cost.  Tuition teacher will be hired in the 1st year of mining.
5.	Road Maintenance	Road Maintenance should be done.	Total Rs. 5.25 Lakh will be spent as Capital cost & 3.0 Lakh as recurring cost for Construction and maintenance of haul road which has also been included in EMP Cost. Road maintenance will be done with in 6 months after opening of mine.
6.	Employment	He said that, the Employment should be provided to the local people.	About 39 persons will be hired as per their qualifications.within 6 months after opening of mine.

#### PROJECT COST

Particulars			Capital	Recurring
Land			1,15,00,000.00	11,50,000.00
Infrastructure			1,36,20,000.00	13,62,000.00
Mining Equipment			0.00	43,00,000.00
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Wagon Drill	2	4,00,000		
Compressor	2	20,00,000		
Water Tanker	2	12,00,000		61,00,000
Rock Breaker	2	4,00,000		
Excavator	3	12,00,000		
Loader	3	9,00,000		
Water Facility for Domestic Purpose "0.39" KLD (Annual Water Demand "117"KL @4L per Tanker, total number of tanker required ("30") and per tanker cost @Rs. 500)			0.00	15000.00
Statutory Clearances			6,00,000.00	0.00
Mine Closure Cost for fencing around mine			1,00,000.00	0.00

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Environment Management Plan (EMP) Cost	29,57,800	9,97,300.00
<b>Total</b>	<b>2,87,77,800.00</b>	<b>1,39,24,300.00</b>

### COST PROPOSED FOR EMP

Particulars	Capital	Recurring
2826 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	8,47,800.00	1,41,300.00
Water Tanker @Rs. 500 per Tanker for Dust Suppression (6.35 KLD) & Horticulture (5.65 KLD) 6.35 + 5.65 = 12.00 KLD 12.00 X 300 Days = 3600 KLD 3600 KLD / 4 KLD = 900 Tankers	0	4,50,000.00
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	18,60,000.00	1,86,000.00
<b>Suggestions As per Public Hearing</b>		
Arrangement of 02 Hand Pump with deep boring for water facility	2,50,000	50,000
Budget for Tuition teachers arranged for education	-	1,20,000
<b>Total</b>	<b>29,57,800</b>	<b>9,97,300.00</b>

### SE Need based Survey detail

S. No.	Community Priority	Status	Need of the Community	Yearly Budget, Rs. In lacks
1.	Education	Moderate Level	School building construction and stationary distribution	1.00
2.	Medical Facilities	Very Poor	Health Camp for routine check-up, and medicine distribution	2.50
3.	Drinking Water	Moderate Level	Bore well required	1.50
4.	Employment	Poor	Employment is the major issue, and will be	

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			provided on the basis of capability and experience of local people
<b>TOTAL</b>			<b>5.00</b>

**Environment Monitoring Programme**

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	Total 9122 cum waste generated 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 because it is used for village & haul road maintenance.
Air Quality Management	<ul style="list-style-type: none"> <li>• Wet drilling and use of sharp drill bits to minimize dust generation.</li> <li>• Controlled blasting using optimum explosive charge during favorable weather conditions.</li> <li>• Regular maintenance of diesel equipment and vehicles to reduce emissions.</li> <li>• Water sprinkling on haul roads, loading/unloading points, and working areas.</li> <li>• All transport vehicles will have valid PUC certificates.</li> <li>• Greenbelt and roadside plantation to act as dust and noise barriers.</li> </ul>
Water Quality Management	<ul style="list-style-type: none"> <li>• Mining will be confined only above the Ground Water Table (GWT).</li> <li>• Rainwater accumulated in the pit will be collected and pumped out regularly during monsoon.</li> <li>• Settling sump will be provided to desilt pumped out of mine-pit and</li> </ul>

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

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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"> <li>▪ Overall slope angles of benches will be maintained at 45°.</li> <li>▪ Unmanageable heights are not created.</li> <li>▪ Loose sides are properly dressed.</li> <li>▪ 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).</li> <li>▪ No undercutting of any face or sides will be permitted so as to cause any overhanging (Regulation 106(5) of MMR 1961)</li> <li>▪ It will be ensured that the drilling equipment is suitable for the job.</li> <li>▪ 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.</li> <li>▪ Provision of portable rail fencing between the drilling operations and the edge of the bench</li> <li>▪ Provision to attach a safety line to the drilling rig and provide a harness for the driller to wear.</li> <li>▪ Restricted access to the area to all persons except those necessary for the drilling operation.</li> <li>▪ Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation.</li> <li>▪ 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.</li> <li>▪ Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.</li> </ul>
Blasting & Handling of Explosives	<ul style="list-style-type: none"> <li>▪ Blast hole geometry shall be properly designed.</li> <li>▪ Blast site shall be wetted before and after blasting operations are completed.</li> <li>▪ 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.</li> <li>▪ Blasting shall be conducted only during favourable weather conditions and only during the day time and permissible hours.</li> <li>▪ 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.</li> </ul>

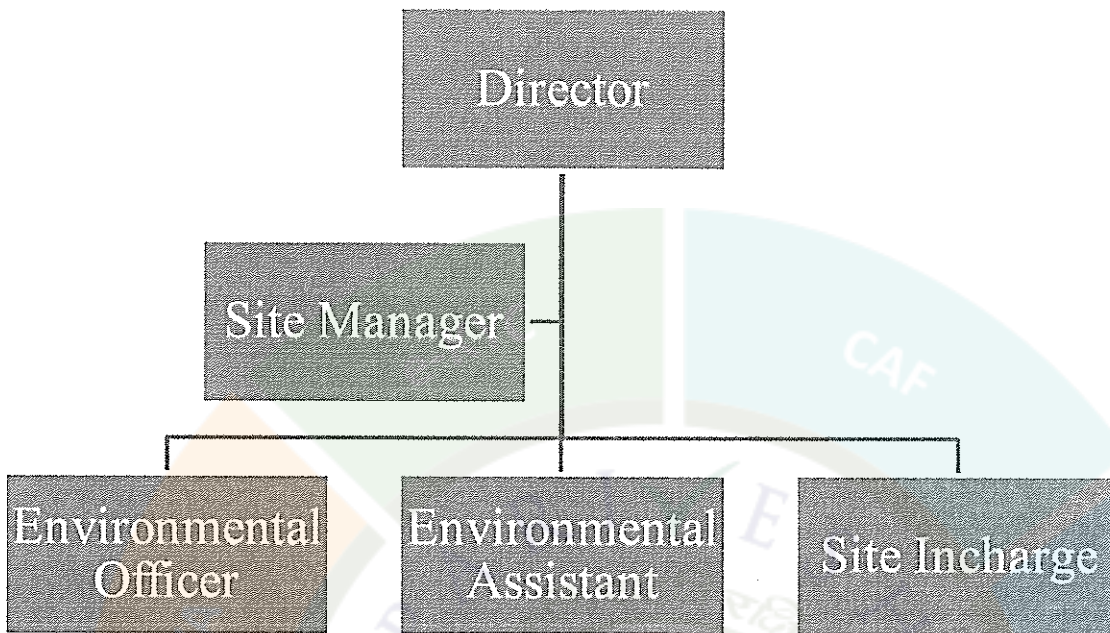
	<ul style="list-style-type: none"> <li>▪ The vibrations should be monitored periodically in consultation with the local Mining authorities.</li> <li>▪ Use of explosives is specialist work. Planning for a round of shots is necessary to ensure that the face is properly surveyed, holes correctly drilled, 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.</li> <li>▪ Proper and safe storage of explosives in approved and Licensed Magazine.</li> <li>▪ 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.</li> <li>▪ Explosives shall be conveyed in special containers.</li> <li>▪ Explosives and detonators shall not be carried in the same container.</li> <li>▪ The holes which have been charged with explosives will not be left unattended till blasting is completed.</li> </ul>
Health Hazards	<ul style="list-style-type: none"> <li>▪ 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.</li> <li>▪ 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</li> </ul>
Accident Prevention	<ul style="list-style-type: none"> <li>▪ Mine road shall be made smooth regularly with a road roller.</li> <li>▪ 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.</li> <li>▪ All transportation within the mine lease area should be carried out directly under the supervision and control of management.</li> <li>▪ 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.</li> <li>▪ Navigation signs will be provided at each and every turning point up to the main road (wherever required).</li> <li>▪ To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating.</li> </ul>

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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.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its 130<sup>th</sup> meeting held on 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> February, 2026 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.

State Level Environment Level Impact Assessment Authority (SEIAA), Jharkhand in its 130<sup>th</sup> meeting held on 29<sup>th</sup> & 30<sup>th</sup> April, 2026 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

On the basis of recommendation of SEAC and decision of SEIAA to grant of EC, Environmental Clearance is hereby issued to "Karondajor Stone Mine of Smt. Saroj Minz at Village : Karondajor, Thana : Bharno, District : Gumla, Jharkhand (4.65 Ha)" alongwith the following conditions:

#### A. Specific Conditions:

1. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
2. "The directions proscribed and prescribed in the Office Memorandum No. FC-11/119/2020-FC, Dated : 17<sup>th</sup> May, 2022 of MoEF&CC shall be strictly adhered to".
3. This EC is subject to 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”.*

4. Project Authority will ensure that personal protective equipments such as protective clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel's.
5. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
6. The production shall be restricted as per approved mining scheme or the approved mine plan at the time of EC granted by then DEIAA, which ever is less.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
14. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.



15. This EC letter is subject to Hon'ble NGT order dated : 13.09.2018, order dated : 11.12.2018 and MoEF & CC O.M. dated : 12.12.2018.
16. No mining/activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.
17. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained, if applicable.

#### **B. Statutory Compliance:**

1. 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.
2. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad 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".
3. The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2<sup>nd</sup> 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.
4. 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".*

5. 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.
6. 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.



7. 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.
8. 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.
9. 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.
10. 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.
11. 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".
12. 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.
13. 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.
14. 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.
15. The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.Environmentclearance.nic.in](http://www.Environmentclearance.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEF & CC Regional Office for compliance and record.
16. 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.
17. In all Stone Mining projects, depending upon the air pollution estimates based upon fuel use in operations and activities of the respective projects; required monitoring



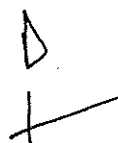
station based air quality monitoring shall be done in the influence area of the project with needed mitigation conditions to ensure sustainable Stone mining as per guidelines, circulars and norms of MOEFCC / Hon'ble NGT or any other directives of regulatory / statutory bodies and competent Courts.

PP to take preventive steps to avoid flash flood conditions arising from mining operations and probable run off in rainy season conditions.

18. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
19. All statutory clearances shall be obtained before start of mining operations.

### C. Air quality monitoring and preservation:

1. 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.
2. 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.
3. Approved devices for dust suppression shall be installed.
4. Personnel working in dusty areas should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Detailed report shall be sent to Pollution Control Board periodically.
5. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM



,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.

**D. Water quality monitoring and preservation:**

1. 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.
2. 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.
3. Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
4. 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.

5. Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IAJI (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
6. 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.
7. 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.
8. 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.
9. The mining operations shall be restricted to ground above water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board shall be obtained. Benches height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per IBM or equivalent agencies. Safety measures shall be adopted in line with DGMS Guidelines.
10. The project proponent shall ensure that no natural watercourse and / or water resources shall be obstructed / diverted due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating / passing through the mine lease area during the course of mining operation.
11. The project proponent shall implement approved conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.



12. The project proponent shall if required, obtain necessary prior permission/NOC from the competent authorities for drawl of requisite quantity of water required from the source for the project.
13. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.

**E. Noise and vibration monitoring and prevention:**

1. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
2. 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.
3. 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 labours 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/ labours are working without personal protective equipment.

**F. Mining Plan:**

1. 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.
2. 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.







3. 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.
4. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
5. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
6. The Project proponent shall make all internal roads pucca as per approved specification of Govt. of Jharkhand and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
7. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
8. Dispensary facilities for First Aid shall be provided at site.

**G. Land reclamation:**

1. 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.
2. 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.
3. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
4. 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.

5. 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.
6. 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.
7. 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.
8. 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.

#### H. Transportation:

1. 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.
2. 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.

3. Vehicular emissions shall be kept under control by regular repairing of transport road and regular air quality monitoring. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of stone / sand outside the mine lease area shall be carried out after the sunset.

#### **I. Green Belt:**

1. 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.
2. 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.
3. 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.
4. 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.

5. 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.
6. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.

**J. Public hearing and human health issues:**

1. 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.
2. 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.
3. 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).

4. 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.
5. 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.
6. Project Proponent shall make provision for the housing for workers/labours or shall construct labour 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.
7. 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.
8. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.

**K. Corporate Environment Responsibility (CER):**

1. 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.

2. 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.
3. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or at least Rs 1 per ton whichever is higher.
4. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.

**L. Miscellaneous:**

1. 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.
2. 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.
3. 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 as per direction contained in EIA Notification, 2006 and as amended vide OM No. J-11013/5/2009-IA.II dated : 29.06.2010, OM No. F.No.J-11013/5/2011-IA.I dated : 05.08.2011 and letter No. J-11013/71/2016-IA I(M) dated : 25.10.2017 of MoEF & CC, Govt. of India.
4. 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.
5. 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.



6. 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.
7. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
8. 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.
9. No blasting shall be carried out after sunset. Blasting operation shall be carried out only during daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
10. Drilling shall either be operated with the dust extractors or equipped with water injection system.
11. Pre-placement medical examination and periodical medical examination of the workers engaged in the project conducted by a Registered Medical Officer shall be carried out and records maintained.
12. Provision shall be made for the housing of construction labour at a suitable place away from the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets / septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
13. Proper Safety measures as per statutory requirement shall be implemented around the mined out Pit prior to closure of site.
14. The Project Proponent shall submit six monthly report on the expenditure incurred on environmental management plan submitted by them.
15. Since blasting and mining on Hillock / Rock out crop may also be carried out, suitable scheme for access / ramp to the highest elevation with gradient shall be submitted for approval from competent authorities.
16. A separate environmental management / monitoring cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
17. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
18. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.



19. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
20. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
21. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
22. The above stipulations would be enforced among others under 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 made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
23. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.
24. 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.
25. 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.

Sd/-  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand


Memo No.- EC/SEIAA/2024-25/3575/2024/ 24

Ranchi, Date : 15.05.2026

Copy to:

1. Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Gumla, Jharkhand.
3. Divisional Forest Officer, Gumla Forest Division, Gumla, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Ranchi, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2<sup>nd</sup> Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.

7. District Mining Officer, District - Gumla, Jharkhand.
8. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
9. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
10. Website.
11. Guard file.

  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand



