

MINUTES OF THE 130TH MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 17TH, 18TH, 19TH AND 20TH FEBRUARY, 2026.

The 130th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 17th, 18th, 19th and 20th February, 2026 under the Chairmanship of Shri Ashok Kumar Singh, IFS (Retd.) in the Conference Room at SEAC, Ranchi.

The following members were present:

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

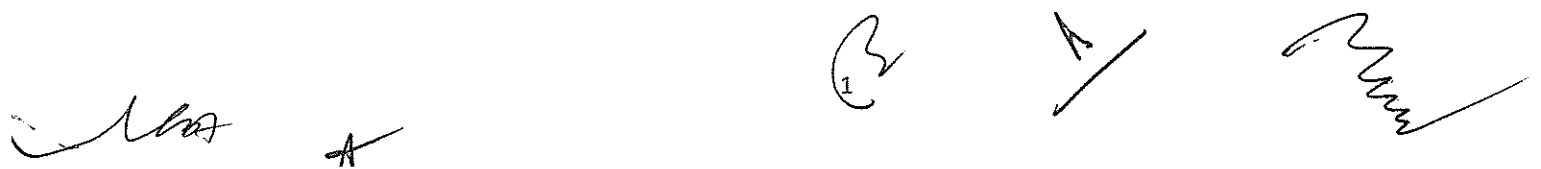
The various projects applied in SEAC for the technical appraisal after the last SEAC meeting held on 17th, 18th, 19th, 20th and 21st January, 2025. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information / clarifications in the earlier meeting of SEAC, were also considered for appraisal. The Project Proponents have been asked to make technical presentation for the appraisal of their projects before the committee.

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

Day 1 : 17th February, 2026 [Tuesday]

- A. E-mail dated 16.02.2026 from MoEF&CC, Govt. of India regarding Comments/Inputs with respect to preparation of District Survey Report in compliance of Hon'ble High Court of Kerala Order dated 05.11.2025 in WP(C) NO. 25928 of 2025 in the matter of Vasudevan Pillai B & Ors. Vs. Union of India & Ors.

The reply to the E-mail dated 16.02.2026 from MoEF&CC, Govt. of India has been framed by SEAC and which has been provided separately to SEIAA vide letter no. 40, dated 17.02.2026.

The bottom of the page features several handwritten signatures and initials. On the left, there is a signature that appears to be 'A'. In the center, there is a circled '1' with an arrow pointing to it. To the right of the circled '1', there is a signature that looks like 'A' with a diagonal line through it. On the far right, there is a long, flowing signature.

B. Corrigendum EC of Chaprakocha Stone Deposit of Shri Shashi Shankar Kumar at Village : Chaprakocha, Tehsil & Thana : Ormanjhi, Distt. : Ranchi, Jharkhand (0.85 Ha). (Proposal no.: SIA/JH/MIN/569139/2026)

The PA's vide online application no. SIA/JH/MIN/569139/2026 has requested for necessary correction in EC issued vide letter no. EC/SEIAA/2024-25/3414 /2024/456, dated 04.01.2025. The EC issued had inadvertently mentioned the khata number as Khata no. 94, Plot no. 95, Khata no. 95, Plot no. 91 (P) & 92 (P) in place of Khata no. 94, Plot no. 95, Khata no. 57, Plot no. 91 (P) & 92 (P) .

The SEAC considered the same and found that the khata numbers and plot numbers of the project were correctly mentioned in the Form-I. However, the error occurred at the level of the executive summary provided by the PAs during the appraisal process.

Hence, the SEAC considered the same and recommends for issuance of corrigendum EC with corrected details as stated above. Other terms & conditions mentioned in the previous EC letter no. EC/SEIAA/2024-25/3414 /2024/456, dated 04.01.2025 shall remain the same.

C. Minor mineral projects referred back by SEIAA through its minutes of 129th meeting of SEIAA held on 09th & 10th February, 2026.

EC Proposals :

1. Jamdiha Stone Mine of M/s Mahesh Enterprises (Prop. : Shri Mahesh Kumar Mahato), Village : Jamdiha, Thana : Topchanchi, Distt.: Dhanbad, Jharkhand (0.405 Ha). (Proposal no.: SIA/JH/MIN/564245/2026)
2. Piplatanr Stone Mine of Shri Santosh Kumar Mandal, Village : Piplatanr, Thana : Pabiya, Distt.: Jamtara, Jharkhand (1.873 Ha). (Proposal no.: SIA/JH/MIN/564835/2026)
3. Betla Stone Mine of Shri Shatrudhan Prasad, Village : Betla, Thana : Manika, Thana no. : 135, Distt.: Latehar, Jharkhand (1.770 Ha). (Proposal no.: SIA/JH/MIN/556929/2025)
4. Chumba Stone Mine of M/s Maa Bhadrakali Minerals (Partners : (i) Mahmud Khan (ii) Shri Sashikant Kumar Sahay (iii) Rijwan Alam (iv) Shri Umesh Kumar (v) Md. Gulam Sarwar (vi) Shri Devnand Kumar), Village : Chumba, Thana : Bariyatu, Thana no. : 31, Distt.: Latehar, Jharkhand (1.21 Ha). (Proposal no.: SIA/JH/MIN/561154/2026)
5. Dev Pahar Stone Mine of M/s Sai Multi Services (Prop. : Shri Suresh Singh), Village : Dev Pahar, Thana : Banjhi, Thana no. : 08, Distt.: Sahibganj, Jharkhand (2.428 Ha). (Proposal no.: SIA/JH/MIN/563773/2026)
6. Pagar Stone Mine of M/s Maa Tara Stone Works (Partners : Shri Kunal Kumar Gupta & Others), Village : Pagar, Thana : Taljhari, Thana no. : 55, Distt.: Sahibganj, Jharkhand (2.326 Ha). (Proposal no.: SIA/JH/MIN/561383/2025)
7. Mandar Stone Mine of M/s Srishty Work Pvt. Ltd. (Director : Shri Abhishek Anand), Village : Mandar, Thana : Naudiha Bazar, Distt.: Palamu, Jharkhand (2.258 Ha). (Proposal no.: SIA/JH/MIN/559408/2026)

8. Porabasuria Stone Mine of Shri Sanjla Besra, Village : Porabasuria, Thana : Shikaripara, Distt. : Dumka, Jharkhand (2.577 Ha). (Proposal no.: SIA/JH/MIN/ 564811 /2025)
9. Manjhladih Stone Mine of Shri Sanjay Prasad Singh, Village : Manjhladih, Thana : Shikaripara, Distt. : Dumka, Jharkhand (2.93 Ha) (Proposal no.: SIA/JH/MIN/ 564531 /2026)
10. Barmasia Stone Mine of M/s Tudu Stone Works (Prop. : Shri Patras Tudu), Village : Barmasia, Thana : Shikaripara, Distt. : Dumka, Jharkhand (2.246 Ha). (Proposal no.: SIA/JH/MIN/ 565271 /2026)
11. Aamchuwan Stone Mine of Partners : Shri Mihir Kumar Mandal & Shri Bablu Mondal, Village : Aamchuwan, Thana : Shikaripara, Distt. : Dumka, Jharkhand (2.869 Ha). (Proposal no.: SIA/JH/MIN/ 565139 /2026)
12. Siyalpahari Stone Mine of M/s Gaurinath Enterprises (Partners : Smt. Sandhya Rani & Smt. Punam Rashmi), Village : Siyalpahari, Thana : Shikaripara, Distt. : Dumka, Jharkhand (2.897 Ha). (Proposal no.: SIA/JH/MIN/ 565101 /2026)
13. Salbonapahar Stone Mine of Shri Hanuman Singh, Village : Salbonapahar, Thana : Shikaripara, Distt. : Dumka, Jharkhand (1.49 Ha). (Proposal no.: SIA/JH/MIN/ 565286 /2026)
14. Chandipur Stone Mine of Shri Ajit Kumar Singh, Village : Chandipur, Thana : Shikaripara, Distt. : Dumka, Jharkhand (2.10 Ha). (Proposal no.: SIA/JH/MIN/ 561662 /2025)
15. Shikaripara (No. 12), Distt. : Dumka, Jharkhand (1.88 Ha) (Proposal no.: SIA/JH/MIN/ 565348 /2026)
16. Chuwa Stone Deposit - I of M/s Mahaveer Engicons Pvt. Ltd., Village : Chuwa, Thana : Jirwabadi, Distt. : Sahibganj, Jharkhand (2.833 Ha) (Proposal no.: SIA/JH/MIN/ 564624 /2026)
17. Chuwa Stone Deposit - II of M/s Mahaveer Engicons Pvt. Ltd., Village : Chuwa, Thana : Jirwabari, Distt. : Sahibganj, Jharkhand (2.833 Ha) (Proposal no.: SIA/JH/MIN/ 564424 /2026)
18. Jiyapani Stone Mine of Shri Avinash Kumar Bhakat, Village : Jiyapani, Thana no. : 60, Thana : Maheshpur, Distt. : Pakur, Jharkhand (2.65 Ha). (Proposal No : SIA/JH/MIN/ 554410/2025)
19. Tokisud – II Sand Deposit in the river bed of Damodar of M/s Gurudev Jee Trading Company (Prop. : Shri Birendra Kumar), Village : Tokisud, Distt. : Ramgarh, Jharkhand (2.28 Ha) (Proposal no.: SIA/JH/MIN/ 564995 /2026)
20. Murgidih Bricks Clay Deposit of M/s BPL Bricks (Prop. : Shri Basant Singh), Mouza : Murgidih, Thana : Barwadih, Distt. : Latehar, Jharkhand (1.35 Ha) (Proposal no.: SIA/JH/MIN/ 561512 /2026)
21. Fatehpur Urf Khatdih Stone Deposit of M/s Maa Durga Stone (Partners : Shri Prabha Ranjan & Shri Rajendra Mehta), Village : Fatehpur Urf Khatdih, Anchal : Topchanchi, Distt. : Dhanbad, Jharkhand (2.02 Ha) (Proposal no.: SIA/JH/MIN/ 559730 /2025)
22. Gorga Stone Deposit of Md. Afzal Ansari, Village : Gorga, Anchal : Purbi Tundi, Distt. : Dhanbad, Jharkhand (1.464 Ha) (Proposal no.: SIA/JH/MIN/ 564648 /2026)
23. Chamdi Stone Deposit of M/s Chamdi Stone Works (Partners : Meshar Ali & Aquib Anis), Village : Chamdi, Thana : Taljhari, Distt. : Sahibganj, Jharkhand (2.81 Ha) (Proposal no.: SIA/JH/MIN/ 563680 /2026)

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24. Sonda Stone Deposit of M/s Shiv Enterprises Stone Works (Partner : Shri Rajendra Kumar), Village : Sonda, Thana : Mandro, Distt. : Sahibganj, Jharkhand (2.832 Ha) (Proposal no.: SIA/JH/MIN/ 564323 /2026)
25. Banjhi Stone Deposit of Shri Ashok Prasad, Village : Banjhi, Anchal : Taljhari, Distt. : Sahibganj, Jharkhand (2.428 Ha) (Proposal no.: SIA/JH/MIN/ 564491 /2026)
26. Stone Mine of M/s Gitanjali Mining Private Limited (Director : Shri Sanjay Yadav), Village : Dehad, Anchal : Borio, Distt. : Sahibganj, Jharkhand (2.95 Ha) (Proposal no.: SIA/JH/MIN/ 561461 /2025)
27. Bara Bana Para & Matiyani Stone Mine of M/s Rahul Metals (Prop. : Shri Gopi Sadhwani), Village : Bara Bana Para & Matiyani, Thana : Taljhari, Distt. : Sahibganj, Jharkhand (9.086 Ha) (Proposal no.: SIA/JH/MIN/ 559051 /2025)
28. Dhatapara Stone Mine of Partners : Shri Rajkumar Kispotta and Shri Rubal Singh Gill, Village : Dhatapara, Anchal : Barharwa, Distt. : Sahibganj, Jharkhand (2.233 Ha) (Proposal no.: SIA/JH/MIN/ 565341 /2026)
29. Shyampur Stone Deposit of M/s Mandhan Minerals Corporation, Village : Shyampur, Thana : Malpahari (OP), Distt.: Pakur, Jharkhand (2.083 Ha). (Proposal no.: SIA/JH/MIN /559119/2025)
30. Bantahajam Stone Mine of M/s R.S. Minerals (Partner : Shri Sanjay Kumar Yadav & Shri Rakesh Sharma), Village : Bantahajam, Thana : Silli, Thana no. : 108, Distt. : Ranchi, Jharkhand (2.94 Ha) (Proposal no.: SIA/JH/MIN/ 558043 /2025)
31. Barkaloro Brick Soil Mining of M/s Bhumi Bricks (Prop. : Smt. Sabita Devi), Village : Barkaloro, Thana : Gumla, Distt. : Gumla, Jharkhand (0.441 Ha). (Proposal No : SIA/JH/MIN/ 565683/2026)
32. Chhota Gutibera Stone Deposit of M/s Khatu Shyam Ji Mines (Partner : Shri Nitin Kumar & Others), Village : Chhota Gutibera, Tehsil : Mandro, Distt. : Sahibganj, Jharkhand (2.792 Ha) (Proposal no.: SIA/JH/MIN/ 565195 /2026)
33. Bindri Bandarkola Stone Deposit of M/s Trilok Mining and Constructions (Partner : Shri Ajay Kumar Singh & Others), Village : Bindri Bandarkola, Tehsil : Borio, Distt. : Sahibganj, Jharkhand (2.83 Ha) (Proposal no.: SIA/JH/MIN/ 565208 /2026)
34. Bindri Bandarkola Stone Deposit of M/s Terra Gem Mineral Resources Pvt. Ltd. (Director : Shri Navnit Kumar), Village : Bindri Bandarkola, Tehsil : Borio, Distt. : Sahibganj, Jharkhand (2.938 Ha) (Proposal no.: SIA/JH/MIN/ 565622 /2026)
35. Pirhamo Stone Deposit of M/s Power Mech Projects Ltd., Village : Pirhamo, Anchal : Mohanpur, Distt. : Deoghar, Jharkhand (1.364 Ha) (Proposal no.: SIA/JH/MIN/ 564608 /2026) (New EC)
36. Balutunda Stone Mine of Shri Harmeet Singh, Village : Balutunda, Anchal : Dumri, Distt. : Giridih, Jharkhand (1.997 Ha) (Proposal no.: SIA/JH/MIN/ 564898 /2026)
37. Stone Mine of M/s Shubham Engineering Stone Company (Partner : Shri Duryodhan Mahto), Village : Dumriatand, Tehsil : Dumri, Distt. : Giridih, Jharkhand (3.71 Ha) (Proposal no.: SIA/JH/MIN/ 532062 /2025)
38. Fathepur & Dhatapara Stone Deposit of M/s Shree Guru Stone Works (Prop. : Shri Amarjit Singh), Village : Fathepur & Dhatapara, Tehsil : Barharwa, Distt. : Sahibganj, Jharkhand (4.28 Ha) (Proposal no.: SIA/JH/MIN/ 565220 /2026)

ToR Proposals :

39. Lowapara Stone Deposit of M/s Lakshmi Stone Works, Village : Lowapara, Thana : Shikaripara, Distt. : Dumka, Jharkhand (1.963 Ha) (Proposal no.: SIA/JH/MIN/ 565270 /2026)
40. Damdami Stone Mine of M/s Maa Stone Works (Prop. : Shri Sushil Kumar Singh), Village : Damdami, Tehsil : Hussainabad, Distt. : Palamu, Jharkhand (4.86 Ha) (Proposal no.: SIA/JH/MIN/ 563980 /2026)

In follow up of the letter no. 594, dated 12.02.2026 of Member Secretary, SEIAA, Jharkhand by which above project proposals were referred back to SEAC in the light of Hon'ble Jharkhand High Court, Ranchi order dated 16.01.2026 passed in W.P. (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand and Ors for necessary action and compliance.

The SEAC considered the same and arrived at following conclusion :-

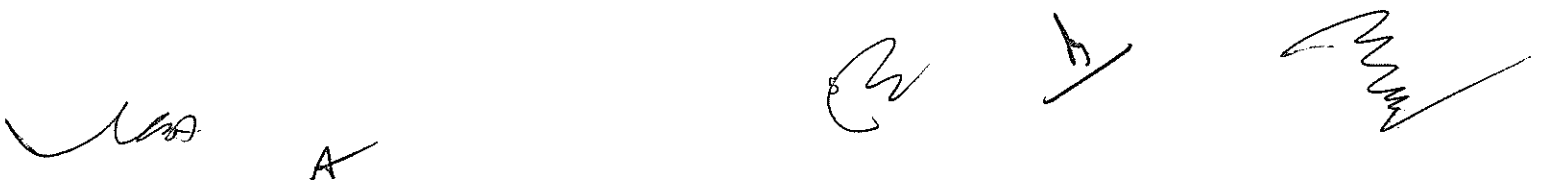
- i. The interim order of the Hon'ble High Court of Jharkhand as stated in paragraph 11 has explicitly directed that no consent should be granted for stone mining and stone crushers by Jharkhand State Pollution Control Board (JSPCB).
- ii. There is no such restrictions imposed on consideration and appraisal of projects for grant of EC by SEAC.
- iii. Further during consideration of projects a certificate has been obtained from the Wildlife DFO clarifying that the project is located outside the Eco Sensitive Zone (ESZ) of Wildlife Sanctuary and National Park.
- iv. Further while granting EC the following condition is also imposed which as follows :

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

The above condition is as per the OM no. 11/20/2018-ESZ, Dated 29.06.2022 of MoEF&CC, Govt. of India.

Hence, the SEAC is of the opinion that in the light of interim order dated 16.01.2026 of Hon'ble Jharkhand High Court, Ranchi passed in W.P. (PIL) no. 3950 of 2024, Anand Kumar vs The State of Jharkhand and Ors no further action and compliance is required in the matter of the above projects and no additional deliberation are necessary in the recommendation of SEAC in the minutes of 129th meeting held on 17th to 21st January, 2026.

In the light of above all proposals of minor minerals are being forwarded to SEIAA for further consideration and action.

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A. Deputy Commissioner, Dhanbad or through authorized representative.

- i. Final District Survey Report (DSR) for Minor Minerals other than Sand Mining or River Bed Mining (Earth Work), Distt. Dhanbad.

The final DSR was submitted by Deputy Commissioner, Dhanbad. He was represented by Shri Ritesh Raj Tigga, District Mining Officer, Dhanbad at the SEAC meeting on 18.02.2026.

During the meeting the DMO, Dhanbad presented the DSR before the Committee. The DSR was appraised in light of S.O. no. 3611 (E), dated 25.07.2018 of MoEF&CC, Govt. of India.

It was found during the appraisal that the DSR is not prepared as per S.O. no. 3611 (E), dated 25.07.2018 of MoEF&CC, Govt. of India.

It will be taken up for consideration after the revised DSR as per S.O. no. 3611 (E), dated 25.07.2018 of MoEF&CC, Govt. of India.

B. Matter related to inspection and monitoring of Remediation Plan and submit the report to SEIAA for release of Bank Guarantee submitted by Project Proponent to Jharkhand State Pollution Control Board (JSPCB).

- i. Residential Complex "Diamond City" of M/s Eastern Estate Construction & Developer Pvt. Ltd., Village : Oyana, Thana : Pithoria, Tehsil : Ranchi, Dist. : Ranchi, Jharkhand.

The project authorities presented the implementation of the Remediation Plan & Natural and Community Resource Augmentation Plan. However, sufficient evidence of the implementation were not made available before the SEAC.

Hence, this matter will be taken up after all the details of implementation are provided.

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

The Project Authorities have submitted evidence of having completed all the requirements of Remediation Plan and Community Resource Augmentation Plan as per EC letter no. EC/SEIAA/2022-23/2552/2022/312, dated 13.12.2022.

Accordingly, a joint site visit with officer from IRO, MoEF&CC, Govt. of India, Ranchi on a mutually convenient date. The Member Secretary, SEAC shall write a letter to IRO, MoEF&CC, Govt. of India, Ranchi in this regard.

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

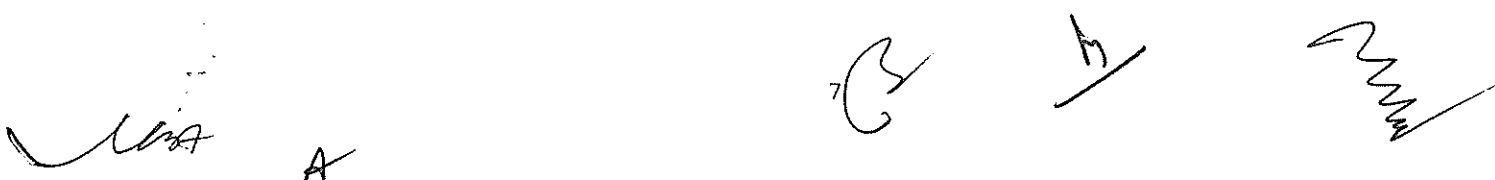
The Project Authorities have submitted evidence of having completed all the requirements of Remediation Plan and Community Resource Augmentation Plan as per EC letter no. EC/SEIAA/2021-22/2519/2021/215, dated 06.08.2022.

Accordingly, a joint site visit with officer from IRO, MoEF&CC, Govt. of India, Ranchi on a mutually convenient date. The Member Secretary, SEAC shall write a letter to IRO, MoEF&CC, Govt. of India, Ranchi in this regard.

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

The Project Authorities have submitted evidence of having completed all the requirements of Remediation Plan and Community Resource Augmentation Plan as per EC letter no. EC/SEIAA/2022-23/2591/2022/211, dated 06.08.2022.

Accordingly, a joint site visit with officer from IRO, MoEF&CC, Govt. of India, Ranchi on a mutually convenient date. The Member Secretary, SEAC shall write a letter to IRO, MoEF&CC, Govt. of India, Ranchi in this regard.

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C. Consideration of proposals :

1. Kasdega Brick Clay Deposit of M/s Aim Bricks (Prop. : Shri Ajit Kumar), Village : Kasdega, Thana : Thethaitangar, Distt.: Simdega, Jharkhand (1.80 Ha).

(Proposal no.: SIA/JH/MIN/567248 /2026)

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

This is a new project which has been taken for appraisal on 18.02.2026

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

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity – 2000 Cum soil/Annum or 8,00,000 Bricks/Annum

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Kasdega Brick Clay Deposit
2	Lessee	: M/s AIM Bricks Prop. - Sri Ajit Kumar S/o- Late Dhanulal
3	Lessee Address	: At-Prince Chowk, P.O.+ P.S. + District- Simdega State – Jharkhand.
4	Lease Area	: 1.80 Ha. 4.46 Acres
5	Type of Land	: Non-Forest Raiyati Land
6	Project Cost	: Rs. 73,80,400/-
7	EMP Budget	: Capital: Rs. 6,20,400/- Recurring: Rs. 7,64,900/- per year
8	New or Expansion	: New
9	Mineable Reserves	: 22230.00 cum
10	Mine Life	: 11.11 season
11	Man power	: 50
12	Water Requirement	: 11.00 KLD
13	Water Source	: By authorised hired water tankers
14	DG Set / power	: -
15	Crusher	: No crusher
16	Nearest Water Body	: Thethaitangar Nadi, Approx. 0.07 km towards SE direction.
17	Nearest Habitation	: Approx. 0.40 km towards North direction. (As per CO Letter)
18	Nearest Rail Station	: Biramitrapur Railway Station at a distance of 29.0 km towards SE direction from site.
19	Nearest Air Port	: Birsa Munda Airport, Ranchi at a distance of 117 km in NE direction from mine site.
20	Nearest Forest	: Divisional Forest Officer, Simdega vide letter no. 2405, dated

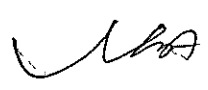
			18.11.2025 certified that the distance of reserved / protected forest is approx. 250 meters from proposed project site.
21	Road & Highways	:	NH-143, Approx, 0.90 km towards West direction.
22	Approach Road	:	approx, 650 meters
23	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 27.50 KM from the nearest Eco Sensitive Zone of Palkot Wildlife Sanctuary.

CO-ORDINATES

Pillar No.	Degree, Minute, Second	
	Latitude	Longitude
1	22°33'28.52" N	84°30'58.55" E
2	22°33'28.74" N	84°30'58.02" E
3	22°33'29.37" N	84°30'57.63" E
4	22°33'30.65" N	84°30'57.51" E
5	22°33'33.33" N	84°30'57.83" E
6	22°33'35.20" N	84°30'58.14" E
7	22°33'34.53" N	84°31'00.44" E
8	22°33'35.89" N	84°31'01.01" E
9	22°33'35.85" N	84°31'01.28" E
10	22°33'35.61" N	84°31'01.47" E
11	22°33'35.47" N	84°31'01.30" E
12	22°33'34.34" N	84°31'02.33" E
13	22°33'33.54" N	84°31'01.83" E
14	22°33'33.47" N	84°31'01.53" E
15	22°33'33.82" N	84°31'01.55" E
16	22°33'34.04" N	84°31'01.29" E
17	22°33'34.69" N	84°31'01.01" E
18	22°33'33.77" N	84°31'00.67" E
19	22°33'33.06" N	84°31'00.30" E
20	22°33'32.76" N	84°31'00.80" E
21	22°33'31.64" N	84°31'02.19" E
22	22°33'29.68" N	84°31'00.74" E
23	22°33'30.02" N	84°30'59.87" E
24	22°33'29.62" N	84°30'59.33" E

LAND DETAILS

Khata no.	Plot no.
02, 04 & 28	667, 668, 670, 671, 672, 673, 733, 734, 674 & 675







STATUTORY CLEARANCES

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Thethaitangar vide letter no. 1022 (ii)/ Ra., dated 30.07.2025 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyar & Register II and also mentioned that the habitation within 400 meters, River within 195 meters and Angan Badi & School within 320 meters of proposed project site, accordingly PAs has submitted EMP for the same.
3	DMO Cluster	:	DMO, Simdega vide memo no. 40/M, dated 20.01.2026 certified that no other mining lease area exists within 500 meters radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Division, Ranchi vide letter no. 89, dated 12.02.2026 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Simdega Forest Division vide letter no. 2405, dated 18.11.2025 certified that the distance of reserved / protected forest is more than 250 meters from proposed project site.
6	DSR	:	This project is mentioned in approved DSR of Simdega District (Sl. no. 08, Page no. 22 & 23).
7	Gram Sabha	:	Gram Sabha conducted on 28.12.2025.
8	Mine Plan Approval	:	Approved by DMO, Simdega vide Memo No. 1131/M, dated 29.12.2025.
9	Qualified Person	:	Shri Tapan Kumar Chakravarty through e-mail dated 18.02.2026 affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast Manual Mining method
2	Quarry Area	:	0.50 ha
3	Waste Generation	:	0.0 Cu.m
4	Stripping Ratio	:	01:00
5	Working Days	:	150
6	Bench: size & No	:	--
7	Elevation of Mine	:	380 AMSL to 381 AMSL
8	Ground Level Elevation	:	380 AMSL

9	Ultimate Working Depth	:	378 AMSL (2 mbgl)
10	Water Table	:	365-363 AMSL (15-17 mbgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	--
13	Diesel/Fuel requirement	:	--

Production Details

Year	Total excavation of brick clay in cum	Number of bricks/season
1st year	2,000	8,00,000
2nd year	2,000	8,00,000
3rd year	2,000	8,00,000
4th year	2,000	8,00,000
5th year	2,000	8,00,000
Total	10,000	40,00,000

Land Use

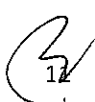
Pattern of Utilization	Existing (Ha.)	At the End of Plan Period (Ha.)
Quarrying	Nil	0.50
Storage of casted bricks	Nil	Comes under excavation
safety Zone	Nil	0.48 (Plantation)
Mine Road	0.03	Comes under excavation
Brick Kiln	0.17	0.17
Total Area	0.20	1.15
Balance Area	1.60	0.65
Total	1.80	1.80

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.48	768	1600 Tree per Hectare	1st Year	Arjun, Jackfruits, Jamun, Babul, Gulmohar, Neem,
Length of Approach Road Area (m.)	650	1300	2m X 2 m spacing in two rows both side		











Dead Bench (Ha.)	-	-	1600 Tree per Hectare	At the end of life of mine	Pipal, Mango etc.
Backfilled (Ha.)	-	-			
Total		2068			

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

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital(Rs.)	Recurring(Rs.)
Land			44,60,000	4,46,000
Infrastructure			15,00,000	1,50,000
Mining Equipment			0.00	0.00
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Dumper	2	400000		
Compressor	1	1000000		
Water Sprinkler	1	600000		
Rock Breaker	1	200000		
Excavator	2	800000		
Loader	1	300000		
Note: no machinery shall be used for mining.				
Water Facility for Domestic Purpose "0.50" KLD (Annual Water Demand "75"KL @4L per Tanker, total number of tanker required ("19") and per tanker cost @Rs. 500)			0.00	9,500
Statutory Clearances			6,00,000	0.00
Mine Closure Cost for fencing around mine			2,00,000	0.00
Mine Closure Cost for Plantation of "0" number of trees @Rs. 300 per tree for plant & @Rs. 50 per tree for maintenance			0.00	0.00
Environment Management Plan (EMP) Cost			6,20,400	7,64,900
Total			73,80,400	13,70,400

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital(Rs.)	Recurring(Rs.)
2068 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	6,20,400	1,03,400

Water Tanker @Rs. 500 per Tanker for Dust Suppression (3.90 KLD) & Horticulture (12.40 KLD) 3.90 + 12.40 = 16.30 KLD 16.30 KLD X 300 Days = 4890 KLD 4890 KLD / 4 KLD = 1223 Tankers	0	6,11,500
Environment Monitoring & Compliance	0	50,000
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF & CC	0	0
Garland Drain & Retaining wall	0	0
Total	6,20,400	7,64,900

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

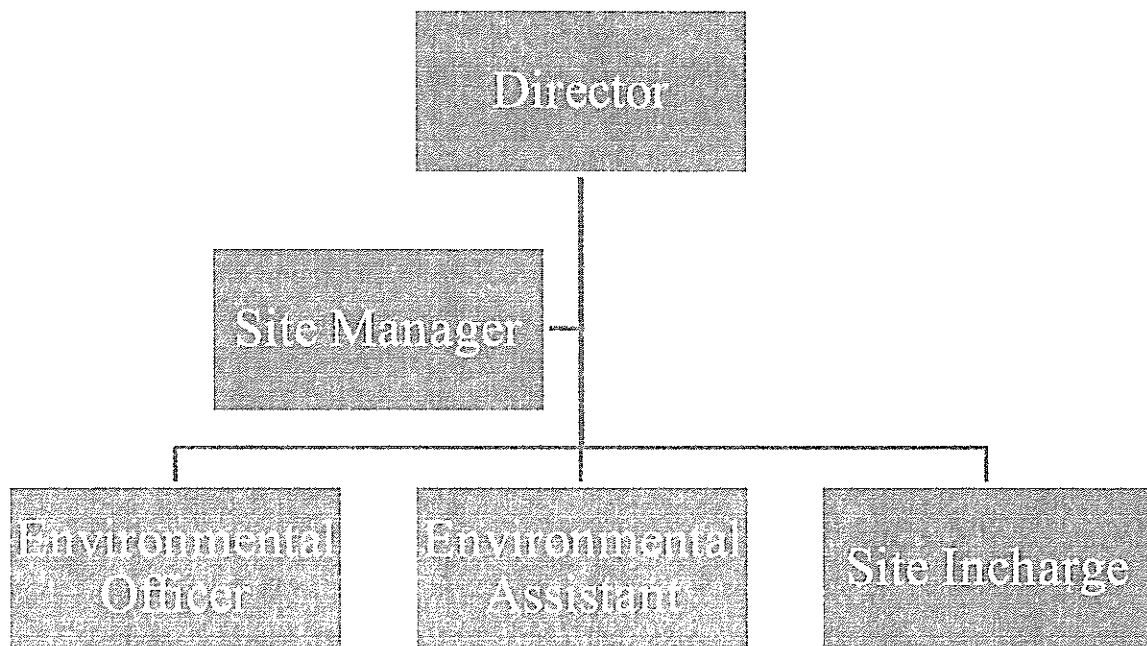
S. no.	Monitoring Parameters	No. of Locations	Frequency of Monitoring
1	Ambient Air: Ambient Air Quality at appropriate location for PM10, PM2.5, SO2, NOx in the vicinity of the mine area. In the surrounding area covering project site only.	3 Stations	Six Monthly
2	Water: Surface water sample in the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

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	No waste will be generated.
Air Quality Management	• 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	• Sewage from rest shelters will be treated through septic tank-soak pit systems.
Noise Quality Management	• Mining activities will be restricted to daytime. • Greenbelt development around the lease boundary to attenuate noise

	propagation.
Soil Quality Management	• Topsoil will be carefully removed and stored separately for future use in plantation and reclamation. • 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	▪ Accidents due vehicles. ▪ Accidents at loading point.
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 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:



EMP Cell structure

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

Undertaking submitted affirming:

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

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kasdega Brick Clay Deposit of M/s Aim Bricks (Prop. : Shri Ajit Kumar), Village : Kasdega, Thana : Thethaitangar, Distt.: Simdega, Jharkhand (1.80 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- II. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- III. The Deputy Commissioner through District Mining Officer will ensure that the mines owner of the respective leases to complete the plantation and maintenance in a time bound manner.
- IV. Suitable plant species of not less than 2 M height to be planted equal to twice the area of saplings proposed in Safety zone. This is to be planted in land available near mines and outside safety zone. This will be in addition to plantation in safety zone. Newly planted saplings to be maintained for minimum 3 years with Geo-Tagged photographs.
- V. Dedicated water tanker to be provided for mine. The tanker to be used for spraying water on haul road and for irrigating newly planted saplings only. Sprinkling to be done such that the haul road is kept moistened all the time with Geo-Tagged photographs.
- VI. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests .Summary findings of same to submitted along with 6 monthly compliance.
- VII. Ensure use of Quality PPEs equivalent not less than 3M make. Records of same to be maintained and submitted with 6 monthly compliance report with Geo-Tagged photographs.
- VIII. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- IX. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

2. Stone Mine of M/s B.C. Stone Works (Prop. : Abdul Rajjak), Village : Balko, Anchal : Taljhari, Distt.: Sahibganj, Jharkhand (2.41 Ha).

(Proposal no.: SIA/JH/MIN/541421/2025)

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

This is a new project which has been taken for appraisal on 18.02.2026.

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

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity – 74073 cum/annum or 199916.10 TPA

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: M/s B.C. Stone Works
2	Lessee	: M/s B.C. Stone Works, (Prop. – Abdul Rajjak)
3	Lessee Address	: At: - Mastapur, Momintola, Jonka, District- Sahibganj, State-Jharkhand.
4	Lease Area	: 2.41 Ha. 5.96 Acres
5	Type of Land	: Non-Forest Raiyati Land
6	Project Cost	: Rs. 1,00,82,000/-
7	EMP Budget	: Capital: Rs. 18,22,000/- Recurring: Rs. 10,19,900/- per year
8	New or Expansion	: New
9	Mineable Reserves	: 1998776.25 tones 740287.5 Cum
10	Mine Life	: 10.0 years
11	Man power	: 20
12	Water Requirement	: 18.08~ 18.50 KLD
13	Water Source	: By authorised hired water tankers
14	DG Set / power	: 90 KVA
15	Crusher	: No crusher
16	Nearest Water Body	: Ganga River, approx. 9.04 km towards NE direction.
17	Nearest Habitation	: Nearest Habitation 390 meter towards NNW direction. (As per Google Earth EMP submitted)
18	Nearest Rail Station	: Kalian Chak Railway station, approx. 3.91 km towards ESE direction.
19	Nearest Air Port	: Deoghar Airport, approx. 120.77 km towards SW direction.
20	Nearest Forest	: Divisional Forest Officer, Sahibganj certified that the distance of reserved / protected forest is approx. 293 meters from proposed project site.

21	Road & Highways	:	NH - 33, Approx. 8.18 km towards ENE direction.
22	Approach Road	:	approx, 620 meters
23	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 9.52 KM from the nearest Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.

CO-ORDINATES

Pillar No.	Degree, Minute, Second	
	Latitude	Longitude
1	25°02'43.36" N	87°41'58.71" E
2	25°02'45.36" N	87°41'56.20" E
3	25°02'47.40" N	87°41'56.87" E
4	25°02'49.30" N	87°41'57.07" E
5	25°02'49.14" N	87°41'59.02" E
6	25°02'48.50" N	87°42'00.19" E
7	25°02'49.00" N	87°42'03.84" E
8	25°02'48.31" N	87°42'04.74" E
9	25°02'46.76" N	87°42'03.12" E
10	25°02'44.37" N	87°42'00.38" E

LAND DETAILS

Khata no.	Plot no.
04, 05 & 10	86 (P), 87 (P) & 88 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Sahibganj vide letter no. 638/M, dated 09.04.2025.
2	CO	:	The CO, Taljhari vide letter no. 597, dated 26.09.2024 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatyan & Register II. During the appraisal it was seen from the KML that habitation at a distance of 390 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Sahibganj vide memo no. 723/M, dated 26.04.2025 certified that 01 other LoI (6.00 Acre) exists within 500 meters radius from proposed project site and total area is 11.96 Acre.
4	DFO Wild Life	:	DFO – cum- Incharge Wildlife Sanctuary, Udhwa (Sahibganj) vide letter no. 2337, dated 23.09.2024 certified that the proposed

			project site is outside Eco Sensitive Zone of Udhwa Bird Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Sahibganj Forest Division vide letter no. 2336, dated 23.09.2024 certified that the distance of reserved / protected forest is 293 meters from proposed project site.
6	DSR	:	The DMO, Sahibganj has certified vide memo no. 1410/M, dated 21.07.2025 that this project is mentioned in approved DSR of Sahibganj District as a potential area (Page no. 192).
7	Gram Sabha	:	Gram Sabha conducted on 28.08.2024.
8	Grid certificate	:	DMO, Sahibganj vide memo no. 1158/M, dated 21.06.2025 certified that said project falls under grid no. 56 and production is within the over all permissible production limit. The DMO also stated that this certificate is issued in the light of order passed by Hon'ble NGT on 22.12.2021 in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019. It also states this certificate is issued in compliance of report of Expert Committee.
9	Mine Plan Approval	:	Approved by DMO, Sahibganj vide Memo No. 724/M, dated 26.04.2025.
10	Qualified Person	:	Dr. Amarjeet Kumar Singh through e-mail dated 18.02.2026 affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast Mechanized Method
2	Quarry Area	:	1.95 Ha
3	Waste Generation	:	19267.5 cum
4	Stripping Ratio	:	1:0.09
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	200 m AMSL to 253 m AMSL
8	Ground Level Elevation	:	200 m AMSL
9	Ultimate Working Depth	:	174 m AMSL (26 m bgl)
10	Water Table	:	27 -25 m AMSL (173 -175 m bgl)
11	Topography of Mine	:	Area represents undulating topography.
12	Explosive Requirement	:	170 kg/day
13	Diesel/Fuel requirement	:	130 litre/day

Production Details

Year	Production of Stone		Waste (Intercalated + Overburden) (cum)
	(cum)	(tons)	
1 st	70338.00	189912.60	3702.00
2 nd	74043.00	199916.10	3897.00
3 rd	73815.00	199300.50	3885.00
4 th	73919.50	199582.65	3890.50
5 th	73967.00	199710.90	3893.00
Total	366082.5	988422.75	19267.5

Land Use

Land Utilization	Existing Land use (Ha.)	At the end of plan period (Ha)	At Conceptual period (Ha)
Quarry	-	1.85	1.95 (converted as water body)
Infrastructure + Crusher	-	0.03	-
Garland drain	-	0.06	-
Safety Zone	-	0.46 (Plantation)	0.46 (Plantation)
Settling tank	-	0.01	-
Total		2.41	

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.46	760	1600 Tree per Hectare	1st Year	Arjun, Jackfruits, Jamun, Babul, Gulmohar, Neem, Pipal, Mango etc.
Length of Approach Road Area (m.)	800	1600	2m X 2 m spacing in two rows both side		
Dead Bench (Ha.)	-	-	1600 Tree per Hectare	At the end of life of	

Backfilled (Ha.)	-	-		mine	
Total		2360			

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

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital (Rs.)	Recurring (Rs.)
Land			59,60,000	5,96,000
Infrastructure			15,00,000	1,50,000
Mining Equipment			0.00	33,00,000
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Dumper	2	400000		
Compressor	1	1000000		
Water Sprinkler	1	600000		
Rock Breaker	1	200000		
Excavator	2	800000		
Loader	1	300000		
@Per Dumper-2,00,000/- @Per Compressor-10,00,000/- @Per Water Sprinkler -6,00,000/- @Per Rock Breaker-2,00,000/- @Per Excavator-4,00,000/- @Per Loader-3,00,000/-				
Water Facility for Domestic Purpose "0.20" KLD (Annual Water Demand "60"KL @4L per Tanker, total number of tanker required ("15") and per tanker cost @Rs. 500)			0.00	7,500
Statutory Clearances			6,00,000	0.00
Mine Closure Cost for fencing around mine			2,00,000	0.00
Mine Closure Cost for Plantation of "0" number of trees @Rs. 300 per tree for plant & @Rs. 50 per tree for maintenance			0.00	0.00
Environment Management Plan (EMP) Cost			18,22,000	10,19,900
Total			1,00,82,000	50,73,400

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital(Rs.)	Recurring(Rs.)
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2360 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	7,08,000	1,18,000
Water Tanker @Rs. 500 per Tanker for Dust Suppression (3.72 KLD) & Horticulture (14.16 KLD) 3.72 + 14.16 = 17.88 KLD 17.88 KLD X 300 Days = 5364 KLD 5364 KLD / 4 KLD = 1341 Tankers	0	6,70,500
Environment Monitoring & Compliance	0	50,000
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF & CC	9,64,000	96,400
Garland Drain & Retaining wall	1,50,000	85,000
Total	18,22,000	10,19,900

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

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

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	Total 19267.5 cum of waste will be generated during this mining plan period. The recovery of stone is about 95%, thus intercalated waste of only 5% shall be generated from this mine. It shall be utilized for construction of approach road and also use for road fillings.
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. • 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

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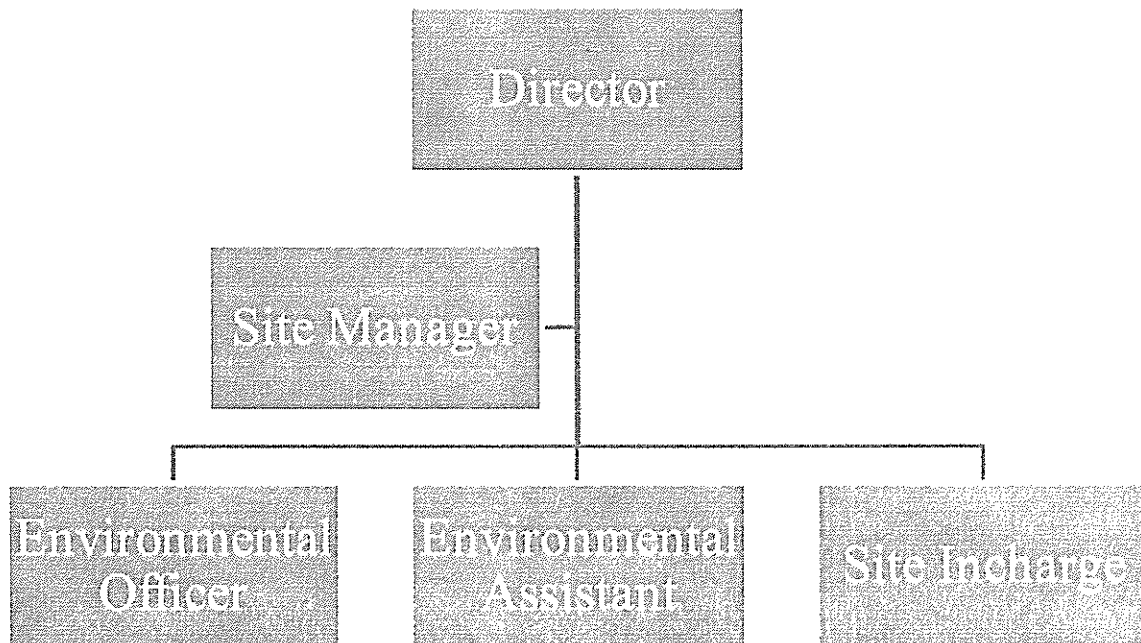
	maintenance, and local infrastructure support. • Awareness programs on safety, hygiene, and environmental protection
Monitoring & Reporting:	• Periodic monitoring of air, water (ground & surface), noise, and soil quality as per CPCB and SPCB guidelines. • All monitoring reports will be submitted to statutory 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. ▪ 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

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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).

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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:

- Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
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- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Mine of M/s B.C. Stone Works (Prop. : Abdul Rajjak), Village : Balko, Anchal : Taljhari, Distt.: Sahibganj, Jharkhand (2.41 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- II. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- III. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- IV. That the Deputy Commissioner, Sahibganj will ensure compliance of the order passed by Hon'ble NGT in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019 in the matter of Syed Arshad Nasar Vs Union of India with Ramchandra Chaurasia Vs State of Jharkhand with Pradeep Kumar Singh Vs State of Jharkhand before grant of mining lease.
- V. 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.
- VI. 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.

- VII. 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.
- VIII. 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.
- IX. 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.
- X. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- XI. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

3. Stone Mine of M/s P.K. Traders (Prop. : Shri Punit Kumar Khudania), Mouza : Binderi Banderkola, Circle : Borio, Distt.: Sahibganj, Jharkhand (2.83 Ha).

(Proposal no.: SIA/JH/MIN /567244/2026)

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

This is a new project which has been taken for appraisal on 18.02.2026.

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

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity – 94444.44 cum/annum or 255000 TPA

Project and Location Details:

Sl	Parameter		Details
1	Project Name	:	Stone Mine of M/s P K Traders
2	Lessee	:	M/s P K Traders Prop. – Sri Punit Kumar Khudania
3	Lessee Address	:	M/s P K Traders

			Prop. – Sri Punit Kumar Khudania S/o Sri Ved Prakash Khudania At – Mouza – Mahajan Patti, PO & PS – Sahibganj, District – Sahibganj, State – Jharkhand	
4	Lease Area	:	2.83 Ha.	7.00 Acres
5	Type of Land	:	Non-Forest Raiyati Land	
6	Project Cost	:	Rs. 1,00,48,800/-	
7	EMP Budget	:	Capital: Rs. 7,48,800/-	Recurring: Rs. 7,82,800/- per year
8	New or Expansion	:	New	
9	Mineable Reserves	:	2826527.40 tones	1046862 Cum
10	Mine Life	:	11.0 years	
11	Man power	:	20	
12	Water Requirement	:	15.0 KLD	
13	Water Source	:	By authorised hired water tankers	
14	DG Set / power	:	50 KVA	
15	Crusher	:	No crusher	
16	Nearest Water Body	:	Ganga river (12.30 km)	
17	Nearest Habitation	:	Nearest Habitation 520 meter towards East direction	
18	Nearest Rail Station	:	Taljhari Mission Railway station, approx. 9.10 km towards ENE direction.	
19	Nearest Air Port	:	Deoghar Airport, approx. 120 km towards SW direction.	
20	Nearest Forest	:	Divisional Forest Officer, Sahibganj certified that the distance of reserved / protected forest is approx. 310 meters from proposed project site.	
21	Road & Highways	:	SH-18, Approx. 3.35 km towards NW direction.	
22	Approach Road	:	approx, 540 meters	
23	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 14.30 KM from the nearest Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.	

CO-ORDINATES

Pillar	Latitude	Longitude
P1	25°03'38.11" N	87°39'20.42" E
P2	25°03'32.30" N	87°39'20.56" E
P3	25°03'32.48" N	87°39'17.25" E
P4	25°03'30.44" N	87°39'13.79" E
P5	25°03'34.85" N	87°39'15.00" E
P6	25°03'37.89" N	87°39'15.83" E

LAND DETAILS

Khata no.	Plot no.
64	500 (P), 501 (P), 502 (P) & 504 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Sahibganj vide letter no. 211/M, dated 19.01.2026.
2	CO	:	The CO, Borio, Sahibganj vide letter no. 675/Ra., dated 13.09.2024 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatyan & Register II.
3	DMO Cluster	:	DMO, Sahibganj vide memo no. 244/M, dated 22.01.2026 certified that no other mining lease area exists within 500 meters radius from proposed project site.
4	DFO Wild Life	:	DFO – cum- Incharge Wildlife Sanctuary, Udhwa (Sahibganj) vide letter no. 1449, dated 01.07.2024 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Bird Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Sahibganj Forest Division vide letter no. 1450, dated 01.07.2024 certified that the distance of reserved / protected forest is 310 meters from proposed project site.
6	DSR	:	The DMO, Sahibganj has certified vide memo no. 1356/M, dated 15.07.2025 that this project is mentioned in approved DSR of Sahibganj District as a potential area (Page no. 182).
7	Gram Sabha	:	Gram Sabha conducted on 07.08.2024.
8	Grid certificate	:	DMO, Sahibganj vide memo no. 1357/M, dated 15.07.2025 certified that said project falls under grid no. 55 and Hon'ble NGT does not decided the production capacity of that Grid. The DMO also stated that this certificate is issued in the light of order passed by Hon'ble NGT on 22.12.2021 in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019. It also states this certificate is issued in compliance of report of Expert Committee.
9	Mine Plan Approval	:	Approved by DMO, Sahibganj vide Memo No. 3002/M, dated 27.01.2026.
10	Qualified Person	:	Dr. Amarjeet Kumar Singh through e-mail dated 18.02.2026 affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast mechanized Method
2	Quarry Area	:	2.32 Ha
3	Waste Generation	:	24745.26 cum
4	Stripping Ratio	:	1:0.01
5	Working Days	:	300
6	Bench: size & No	:	6m to 6m
7	Elevation of Mine	:	220 m AMSL to 210 m AMSL
8	Ground Level Elevation	:	210 m AMSL
9	Ultimate Working Depth	:	130 m AMSL
10	Water Table	:	62-60 m AMSL
11	Topography of Mine	:	Area represents an undulating topography with hill ranges
12	Explosive Requirement	:	28 kg/day
13	Diesel/Fuel requirement	:	122 litre/day

Production Details

Year	Production of stone in Cum	Production of stone in Tonnes	Total Waste in Cum
1 st Year	93259.60	251800.92	4908.40
2 nd Year	94206.75	254358.23	4958.25
3 rd Year	94444.44	255000.00	4970.76
4 th Year	94095.60	254058.12	4952.40
5 th Year	94153.55	254214.59	4955.45
Total	470159.94	1269431.86	24745.26

Land Use

Land Utilization	Existing Land use (Ha.)	At the end of plan period (Ha)	At Conceptual period (Ha)
Quarry	0.0	2.24	2.32 (Converted as Water Body)
Infrastructure	0.0	0.01	Nil
Garland drain	0.0	0.06	0.0
Safety Zone	0.0	0.51 (Plantation)	0.51 (Plantation)
Settling Tank	0.0	0.01	0.0
Total Lease Area	2.83		

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.51	816	1600 Tree per Hectare	1st Year	Arjun, Jackfruits, Jamun, Babul, Gulmohar, Neem, Pipal, Mango etc.
Length of Approach Road Area (m.)	540	1030	2m X 2 m spacing in two rows both side		
Dead Bench (Ha.)	-	-	1600 Tree per Hectare	At the end of life of mine	
Backfilled (Ha.)	-	-			
Total		1896			

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

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital(Rs.)	Recurring(Rs.)
Land			70,00,000	7,00,000
Infrastructure			15,00,000	1,50,000
Mining Equipment			0.00	49,00,000
Equipment	Quantity	Rent per year		
Dumper	5	1000000		
Compressor	1	1000000		
Water Sprinkler	1	600000		
Rock Breaker	3	600000		
Excavator	2	800000		
Loader	3	900000		
@Per Dumper-2,00,000/-				
@Per Compressor-10,00,000/-				
@Per Water Sprinkler -6,00,000/-				
@Per Rock Breaker-2,00,000/-				
@Per Excavator-4,00,000/-				
@Per Loader-3,00,000/-				
Water Facility for Domestic Purpose "0.20" KLD (Annual Water Demand "60"KL @4L per Tanker, total number of tanker required ("15") and per tanker cost @Rs. 500)			0.00	7500

Statutory Clearances	6,00,000	0.00
Mine Closure Cost for fencing around mine	2,00,000	0.00
Environment Management Plan (EMP) Cost	7,48,800	7,82,800
Total	1,00,48,800	65,40,300

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital (Rs.)	Recurring (Rs.)
1896 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	5,68,800	94,800
Water Tanker @Rs. 500 per Tanker for Dust Suppression (3.24 KLD) & Horticulture (11.37 KLD) 3.24 + 11.37 = 14.61 KLD 14.61 KLD X 300 Days = 4383 KLD 4383 KLD / 4 KLD = 1096 Tankers	0	5,48,000
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	0	0
Garland Drain & Retaining wall	1,80,000	90,000
Total	7,48,800	7,82,800

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

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

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	Total 24745.26 cum of waste will be generated during this mining plan period, so there is no requirement of waste dumping Plan for this period. The waste

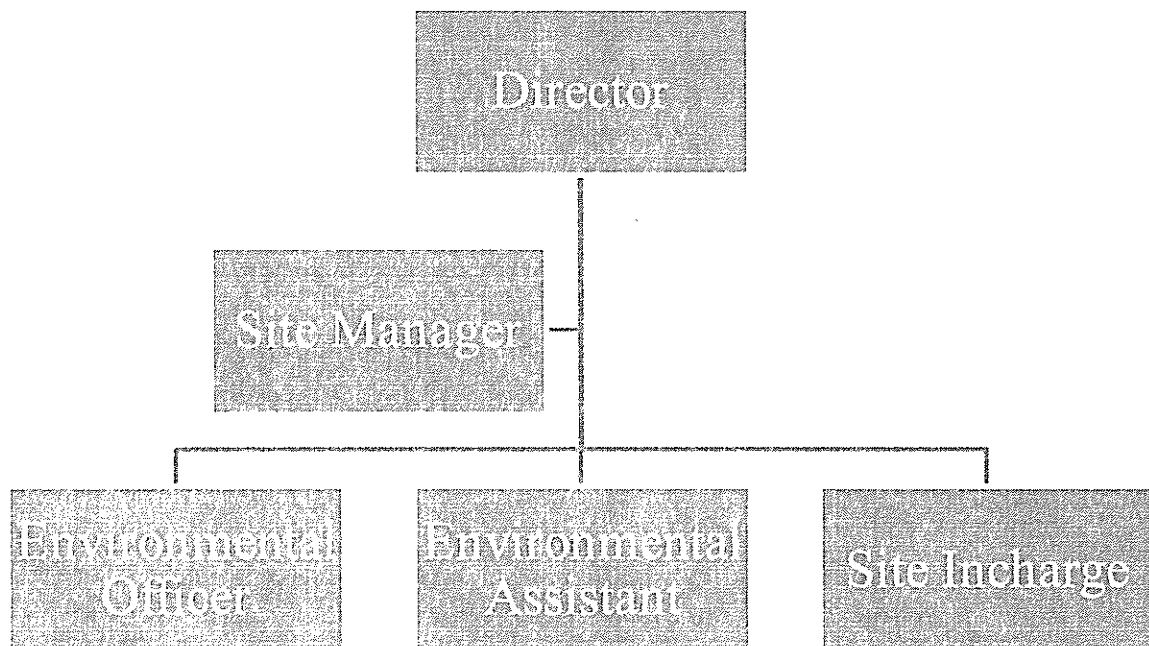
	generated will be used for village & haul road maintenance.
Air Quality Management	- Wet drilling and use of sharp drill bits to minimize dust generation. - Controlled blasting using optimum explosive charge during favorable weather conditions. - Regular maintenance of diesel equipment and vehicles to 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. - 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. ▪ 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.
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Undertaking submitted affirming:

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- The District Survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- The Boundary Pillars of the proposed mine lease area will be maintained properly.
- One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.

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- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
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- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Mine of M/s P.K. Traders (Prop. : Shri Punit Kumar Khudania), Mouza : Binderi Banderkola, Circle : Borio, Distt.: Sahibganj, Jharkhand (2.83 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

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- II. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- III. That the Deputy Commissioner, Sahibganj will ensure compliance of the order passed by Hon'ble NGT in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019 in the matter of Syed Arshad, Nasar Vs Union of India with Ramchandra Chaurasia Vs State of Jharkhand with Pradeep Kumar Singh Vs State of Jharkhand before grant of mining lease.
- IV. 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.

- V. 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.
- VI. 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.
- VII. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests. Summary findings of same to be submitted along with 6 monthly compliance.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

4. Gutthi (Chhota Gutibera) Stone Deposit of M/s Mahto Stone Mines (Prop. : Shri Akhilesh Kumar), Village : Gutthi (Chhota Gutibera), Anchal : Mirzachowki, Distt.: Sahibganj, Jharkhand (2.873 Ha).

(Proposal no.: SIA/JH/MIN /567229/2026)

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

This is a new project which has been taken for appraisal on 18.02.2026.

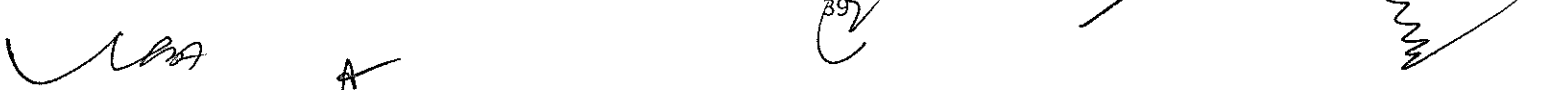
Project Sector: 1(a) Mining of Minerals, Category: B2.

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity – 100754 cum/annum or 272036 TPA

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Gutthi (Chhota Gutibera) Stone Deposit



2	Lessee	:	M/s Mahto Stone Mines, Prop. Shri Akhilesh Kumar, S/o- Shri Chhatthu Prasad Mahto
3	Lessee Address	:	M/s Mahto Stone Mines, Prop. Shri Akhilesh Kumar, S/o- Shri Chhatthu Prasad Mahto Village - Mahadevvaran, P.O. + P.S.- Mirzachowki, District- Sahibganj, State-Jharkhand
4	Lease Area	:	2.873 Ha. 7.10 Acres
5	Type of Land	:	Non-Forest Raiyati Land
6	Project Cost	:	Rs. 1,13,01,500/-
7	EMP Budget	:	Capital: Rs. 16,66,000/- Recurring: Rs. 7,28,000/- per year
8	New or Expansion	:	New
9	Mineable Reserves	:	2503423 tones 927194 Cum
10	Mine Life	:	9.4 or 10 years
11	Man power	:	25
12	Water Requirement	:	13.0 KLD
13	Water Source	:	By authorised hired water tankers
14	DG Set / power	:	55 KVA
15	Crusher	:	No crusher
16	Nearest Water Body	:	Ganga River (12.64 km)
17	Nearest Habitation	:	Nearest Habitation 200 meter towards North direction (As per google earth;EMP Sbmited).
18	Nearest Rail Station	:	Karamtola Railway station, approx. 5.05 km towards NNE direction.
19	Nearest Air Port	:	Deoghar Airport, approx. 119.17 km towards SW direction.
20	Nearest Forest	:	Divisional Forest Officer, Sahibganj certified that the distance of reserved / protected forest is approx. 253 meters from proposed project site.
21	Road & Highways	:	NH- 33, Approx. 5.21 km towards NNE direction.
22	Approach Road	:	approx, 400 meters
23	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 34.19 KM from the nearest Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.

CO-ORDINATES

Pillar	Latitude (N)	Longitude (E)
1	25°13'04.6500"	87°31'24.0900"
2	25°13'03.3200"	87°31'23.4800"

3	25°13'01.6600"	87°31'23.7700"
4	25°13'01.6100"	87°31'24.4100"
5	25°12'59.2900"	87°31'24.5000"
6	25°12'59.8800"	87°31'28.3600"
7	25°12'58.5700"	87°31'32.5900"
8	25°13'01.0700"	87°31'33.1300"
9	25°13'02.2400"	87°31'29.5400"
10	25°13'04.5334"	87°31'26.3831"

LAND DETAILS

J.B. no.	Plot no.
17	50 (P) & 53 (P)
26	54 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Sahibganj vide letter no. 2061/M, dated 16.12.2025.
2	CO	:	The CO, Mandro vide memo no. 18 (Mu.)/Ra., dated 18.10.2024 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatyan & Register II. During the appraisal it was seen from the KML that few houses at a distance of 200 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Sahibganj vide memo no. 2083/M, dated 22.12.2025 certified that no other mining lease area exists within 500 meters radius from proposed project site.
4	DFO Wild Life	:	DFO – cum- Incharge Wildlife Sanctuary, Udhwa (Sahibganj) vide letter no. 796, dated 22.03.2025 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Bird Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Sahibganj Forest Division vide letter no. 689, dated 11.03.2025 certified that the distance of reserved / protected forest is 253 meters from proposed project site.
6	DSR	:	The DMO, Sahibganj has certified vide memo no. 2084/M, dated 22.12.2025 that this project is mentioned in approved DSR of Sahibganj District as a potential area (Page no. 186).
7	Gram Sabha	:	Gram Sabha conducted on 16.09.2024.
8	Grid certificate	:	DMO, Sahibganj vide memo no. 1116/M, dated 19.06.2025 certified that said project falls under grid no. 12 and production is

			within the over all permissible production limit. The DMO also stated that this certificate is issued in the light of order passed by Hon'ble NGT on 22.12.2021 in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019. It also states this certificate is issued in compliance of report of Expert Committee.
9	Mine Plan Approval	:	Approved by DMO, Sahibganj vide Letter No. 223/M, dated 20.01.2026.
10	Qualified Person	:	Shri Vidya Bhushan Mishra was present in the meeting and affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast semi- mechanized Method
2	Quarry Area	:	2.298 Ha
3	Waste Generation	:	67716 cum during plan period and 129128 cum during conceptual period
4	Stripping Ratio	:	1:0.18
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	273 m AMSL to 260 m AMSL
8	Ground Level Elevation	:	260 m AMSL
9	Ultimate Working Depth	:	215 m AMSL
10	Water Table	:	165-162 m AMSL
11	Topography of Mine	:	Area represents a small hillock.
12	Explosive Requirement	:	30 kg/day
13	Diesel/Fuel requirement	:	135 litre/day

Production Details

Year	Production of Stone (Cum)	Production of Stone (Tonnes)	Overburden (Cum)	Intercalated Waste (Cum)	Total Waste (Cum)
1 st Year	91124	246035	40330	4796	45126
2 nd Year	92263	249110	1962	4856	6818
3 rd Year	99097	267563	0	5216	5216
4 th Year	99822	269520	0	5254	5254
5 th Year	100754	272036	0	5303	5303
Total	483061	1304264	42292	25424	67716

Land Use

Land Utilization	Existing Land Use (Ha)	At the End of Plan Period (Ha)	At Conceptual Period (Ha)
Quarry	NIL	1.834	2.298 (0.227 ha backfilled, 1.808 ha converted into water reservoir, 0.263 ha left as dead benches)
Waste Dump	NIL	0.320	NIL (comes under quarry)
Road	NIL	0.005	NIL (comes under quarry)
Safety Zone Plantation	NIL	0.575 (Plantation)	0.575 (Plantation)
Total	2.873	2.734	2.873
Unused Area	0	0.139	0
Total Lease Area	2.873		

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.575	920	1600 Tree per Hectare	1st Year	Arjun, Jackfruits, Jamun, Babul, Gulmohar, Neem, Pipal, Mango etc.

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

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital(Rs.)	Recurring(Rs.)
Land			71,00,000	7,10,000
Infrastructure			15,00,000	1,50,000
Mining Equipment			0.00	33,00,000
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Dumper	4	8,00,000		
Compressor	1	10,00,000		
Water Sprinkler	1	6,00,000		







Rock Breaker	1	2,00,000		
Excavator	1	4,00,000		
Loader	1	3,00,000		
@Per Dumper-2,00,000/- @Per Compressor-10,00,000/- @Per Water Sprinkler -6,00,000/- @Per Rock Breaker-2,00,000/- @Per Excavator-4,00,000/- @Per Loader-3,00,000/-				
Water Facility for Domestic Purpose "0.25" KLD (Annual Water Demand "75"KL @4L per Tanker, total number of tanker required ("19") and per tanker cost @Rs. 500)			0.00	9,500
Statutory Clearances			6,00,000	0.00
Mine Closure Cost for fencing around mine			2,00,000	0.00
Mine Closure Cost for Plantation of "785" number of trees @Rs. 300 per tree for plant & @Rs. 50 per tree for maintenance			2,35,500	39,250
Environment Management Plan (EMP) Cost			16,66,000	7,28,000
Total			1,13,01,500	49,36,750

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital(Rs.)	Recurring(Rs.)
1720 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	5,16,000	86,000
Water Tanker @Rs. 500 per Tanker for Dust Suppression (2.40 KLD) & Horticulture (10.32 KLD) 2.40 + 10.32 = 12.72 KLD 12.72 KLD X 300 Days = 3816 KLD 3816 KLD / 4 KLD = 954 Tankers	0	4,77,000
Environment Monitoring & Compliance	0	50,000
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF & CC	11,50,000	1,15,000
Total	16,66,000	7,28,000

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

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

2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise: Day & Night level Noise Monitoring.	4 stations	Six Monthly
4	Soil: Soil Monitoring, Qualitative and quantitative testing/analysis to check the soil fertility, porosity, texture, water holding capacity, etc.	2 stations	Six Monthly

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	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 67716 cum in-situ waste shall be generated during this plan period out of which 38556 cum (In situ) shall be utilized for approach & haul road maintenance. The rest waste material 29160 cum in situ 36450.62 cum loose & 30983.03 cum compact waste shall be temporary dumped on the eastern part of the applied lease area and it will cover about 0.320ha 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.

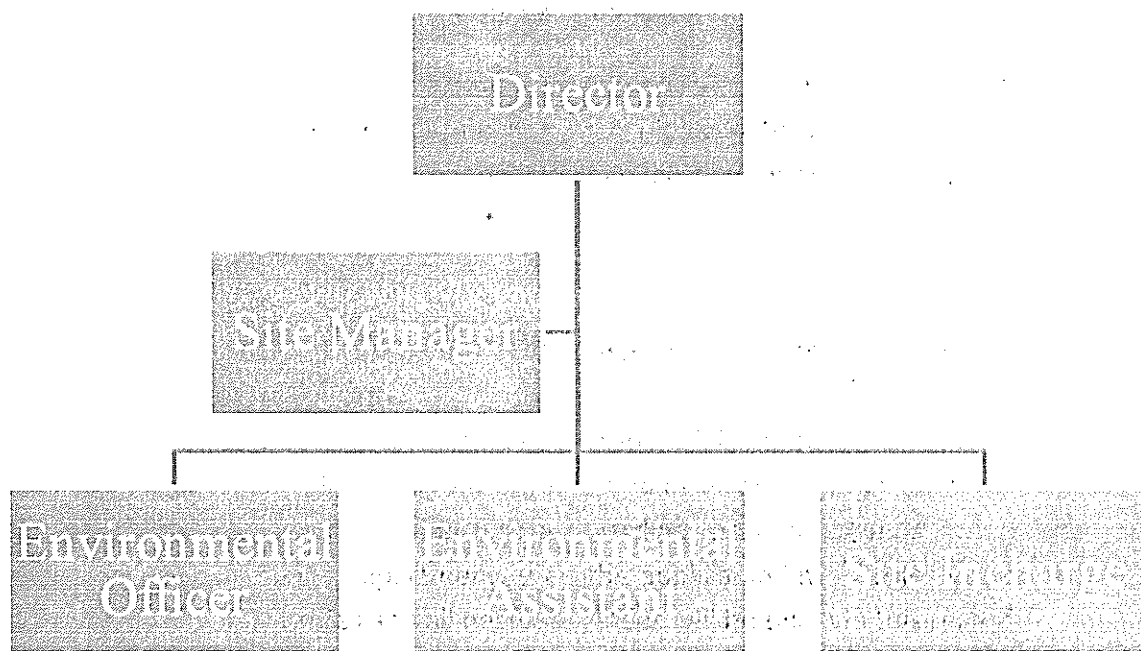
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	• Regular maintenance of mining machinery to minimize vibration and noise. • Greenbelt development around the lease boundary to attenuate noise propagation. • Use of delayed blasting technique to minimize the adverse impact of vibration.
Soil Quality Management	• 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.

	▪ 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 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.
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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:

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

- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Gutthi (Chhota Gutibera) Stone Deposit of M/s Mahto Stone Mines (Prop. : Shri Akhilesh Kumar), Village : Gutthi (Chhota Gutibera), Anchal : Mirzachowki, Distt.: Sahibganj, Jharkhand (2.873 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- II. That the Deputy Commissioner, Sahibganj will ensure compliance of the order passed by Hon'ble NGT in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019 in the matter of Syed Arshad Nasar Vs Union of India with Ramchandra Chaurasia Vs State of Jharkhand with Pradeep Kumar Singh Vs State of Jharkhand before grant of mining lease.
- III. 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.

- IV. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- V. 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.
- VI. 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.
- VII. 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.
- VIII. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests. Summary findings of same to be submitted along with 6 monthly compliance.
- IX. 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.
- X. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- XI. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

5. Asna Stone Deposit of M/s Sarveshwari Stone Mines (Prop. : Shri Mihir Kumar Mandal),
Village : Asna, Anchal : Govindpur, Distt.: Dhanbad, Jharkhand (1.42 Ha).

(Proposal no.: SIA/JH/MIN /567486/2026)

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

This is a new project which has been taken for appraisal on 18.02.2026.

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

Application for Environmental Clearance (EC).

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Asna Stone Deposit
2	Lessee	: M/s Sarveshwari Stone Mines Prop. – Sri Mihir Kumar Mandal
3	Lessee Address	: M/s Sarveshwari Stone Mines Prop. – Sri Mihir Kumar Mandal At – Gram – Machamahul, PO – Sarkardih & PS – Govindpur, District – Dhanbad, State – Jharkhand
4	Lease Area	: 1.42 Ha. 3.51 Acres
5	Type of Land	: Non-Forest Raiyati Land
6	Project Cost	: Rs. 71,99,000/-
7	EMP Budget	: Capital: Rs. 13,03,500/- Recurring: Rs. 8,93,550/- per year
8	New or Expansion	: New
9	Mineable Reserves	: 522311 tones 193448.51 Cum
10	Mine Life	: 9.2 or 10.0 years
11	Man power	: 20
12	Water Requirement	: 16.50 KLD
13	Water Source	: By authorised hired water tankers
14	DG Set / power	: 50 KVA
15	Crusher	: No crusher
16	Nearest Water Body	: Seasonal Nallah (As per Google Earth-370 m; EMP Submitted)
17	Nearest Habitation	: Nearest Habitation (As per Google Earth-480 m; EMP Submitted)
18	Nearest Rail Station	: Chhota Ambana Railway station, approx. 10.50 km towards SSW direction.
19	Nearest Air Port	: Deoghar Airport, approx. 65 km towards NNE direction.
20	Nearest Forest	: Divisional Forest Officer, Dhanbad certified that the distance of reserved / protected forest is approx. 300 meters from proposed project site.
21	Road & Highways	: NH-19, Approx. 5.10 km towards SW direction. NH-419, Approx. 4.0 km towards NW direction.
22	Approach Road	: approx, 610 meters
23	Distance of nearest ESZ of Wildlife Sanctuary or National Park	: The project location is at approx. 17.36 KM from the nearest Eco Sensitive Zone of Topchanchi Wildlife Sanctuary.

CO-ORDINATES

Pillar No.	Degree, Minute, Second	
	Latitude	Longitude
1	23°51'13.990" N	86°35'39.481" E
2	23°51'13.450" N	86°35'41.111" E
3	23°51'12.284" N	86°35'42.921" E
4	23°51'11.595" N	86°35'43.690" E
5	23°51'10.554" N	86°35'43.669" E
6	23°51'10.427" N	86°35'44.571" E
7	23°51'9.686" N	86°35'44.410" E
8	23°51'9.052" N	86°35'44.238" E
9	23°51'8.498" N	86°35'43.625" E
10	23°51'9.496" N	86°35'43.270" E
11	23°51'9.112" N	86°35'42.292" E
12	23°51'9.377" N	86°35'41.053" E
13	23°51'8.562" N	86°35'40.425" E
14	23°51'9.154" N	86°35'39.719" E
15	23°51'9.567" N	86°35'39.336" E
16	23°51'10.553" N	86°35'40.158" E
17	23°51'10.499" N	86°35'41.202" E
18	23°51'10.117" N	86°35'41.391" E
19	23°51'11.442" N	86°35'41.264" E
20	23°51'11.033" N	86°35'40.332" E
21	23°51'11.268" N	86°35'39.765" E
22	23°51'12.291" N	86°35'39.408" E
23	23°51'12.810" N	86°35'39.074" E
24	23°51'13.379" N	86°35'39.006" E

LAND DETAILS

Khata No.	Plot No.
17	4173, 4178, 4179
17	4180, 4181, 4182
17	4183, 4223, 4225
382	4177
336	4227
255	4170, 4171, 4175
255	4176, 4228, 4229
255	4230, 4231, 4149, 4146
176	4174, 4169
105	4168, 4161
127	4167, 4164
188	4165
189	4166
69	4160, 4148, 4147

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Dhanbad vide letter no. 1258/M, dated 14.08.2025.
2	CO	:	The CO, Govindpur, Dhanbad vide letter no. 226, dated 25.02.2025 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyani & Register II. During the appraisal it was seen from the KML that few houses at a distance of 480 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Dhanbad vide memo no. 149/M, dated 22.01.2026 certified that 01 other mining lease area (3.96 Acre) exists within 500 meters radius from proposed project site and total area is 7.47 Acre.
4	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 906, dated 28.05.2025 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Dhanbad Forest Division vide letter no. 953, dated 21.04.2025 certified that the distance of reserved / protected forest is 300 meters approx from proposed project site.
6	DSR	:	The DMO, Dhanbad has certified vide memo no. 157/M, dated 24.01.2026 that this project is mentioned in approved DSR of Dhanbad District as a potential area (Page no. 164, Sl. no. 117).
7	Gram Sabha	:	Gram Sabha conducted on 30.05.2025.
8	Mine Plan Approval	:	Approved by DMO, Dhanbad vide Memo No. 86/M, dated 10.01.2026.
9	Qualified Person	:	Shri Vidya Bhushan Mishra was present in the meeting and affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast semi- mechanized Method
2	Quarry Area	:	0.882 Ha
3	Waste Generation	:	23765 cum for plan period & 39084 cum for conceptual period.
4	Stripping Ratio	:	1:0.41

5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	209 m AMSL to 206 m AMSL
8	Ground Level Elevation	:	206 m AMSL
9	Ultimate Working Depth	:	180 m AMSL
10	Water Table	:	160 m AMSL as per topography survey
11	Topography of Mine	:	Area represents a small hillock.
12	Explosive Requirement	:	31 kg/day
13	Diesel/Fuel requirement	:	128 litre/day

Production Details

Year	Production of Stone		Overburden in cum	Intercalated Waste in cum	Total Waste In cum
	(cum)	(tons)			
1 st	17782	48012	18620	936	19556
2 nd	18620	50274	0	980	980
3 rd	19923	53793	0	1049	1049
4 th	20482	55301	0	1078	1078
5 th	20948	56558	0	1103	1103
Total	97755	263939	18620	5145	23765

Land Use

Land Utilization	Existing Land use (Ha.)	At the end of plan period (Ha)	At Conceptual period (Ha)
Excavation	0.0	0.513	0.882 (0.178 ha. area shall be backfilled & 0.704 ha. converted into water reservoir)
Waste Dump	0.0	0.233	Nil (comes under quarry)
Road	0.0	0.003	Nil (comes under quarry)
Safety Zone	0.0	0.538 (Plantation)	0.538 (Plantation)
Total	0.0	1.287	1.42
Unused Land	1.42	0.133	0.00
Total Lease Area	1.42		

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.538	865	1600 Tree per Hectare	1st Year	Arjun, Jackfruits,

Length of Approach Road Area (m.)	610	1220	2m X 2 m spacing in two rows both side		Jamun, Babul, Gulmohar, Neem, Pipal, Mango etc.
Backfilled (Ha.)	0.178	285	1600 Tree per Hectare	At the end of life of mine	
Total		2370			

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

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital(Rs.)	Recurring(Rs.)
Land			35,10,000	3,51,000
Infrastructure			15,00,000	1,50,000
Mining Equipment			0.00	27,00,000
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Dumper	1	200000		
Compressor	1	1000000		
Water Sprinkler	1	600000		
Rock Breaker	1	200000		
Excavator	1	400000		
Loader	1	300000		
@Per Dumper-2,00,000/- @Per Compressor-10,00,000/- @Per Water Sprinkler -6,00,000/- @Per Rock Breaker-2,00,000/- @Per Excavator-4,00,000/- @Per Loader-3,00,000/-				
Water Facility for Domestic Purpose "0.20" KLD (Annual Water Demand "60"KL @4L per Tanker, total number of tanker required ("15") and per tanker cost @Rs. 500)			0.00	7500
Statutory Clearances			6,00,000	0.00
Mine Closure Cost for fencing around mine			2,00,000	0.00
Mine Closure Cost for Plantation of "285" number of trees @Rs. 300 per tree for plant & @Rs. 50 per tree for maintenance			85,500	14,250

Environment Management Plan (EMP) Cost	13,03,500	8,93,550
Total	71,99,000	41,16,300

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital(Rs.)	Recurring(Rs.)
2085 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	6,25,500	1,04,250
Water Tanker @Rs. 500 per Tanker for Dust Suppression (3.66 KLD) & Horticulture (12.51 KLD) 3.66 + 12.51 = 16.17 KLD 16.17 KLD X 300 Days = 4851 KLD 4851 KLD / 4 KLD = 1215 Tankers	0	6,07,500
Environment Monitoring & Compliance	0	50,000
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF & CC	5,68,000	56,800
Garland Drain & Retaining wall	1,10,000	75,000
Total	13,03,500	8,93,550

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

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

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	In this applied lease area, the stone deposit is covered with 2m layer of 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

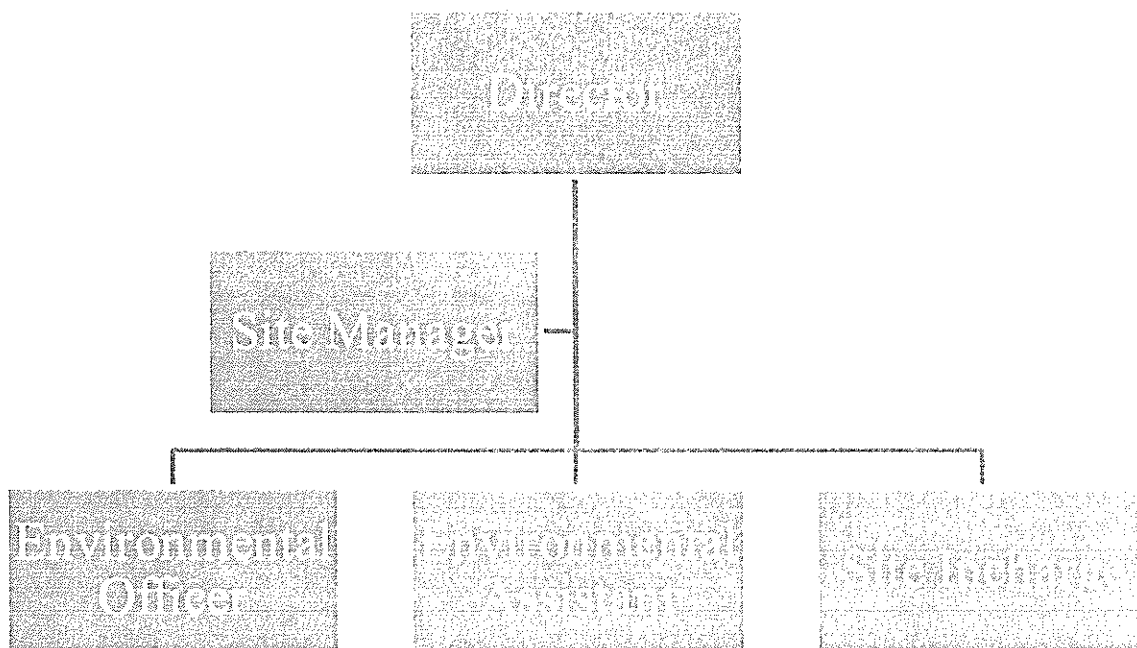
	mine. It has been calculated that total 23765 cum in-situ waste shall be generated during this plan period, out of which 11883 cum (In situ) shall be utilized for approach & haul road maintenance. The rest waste material i.e. 11883 cum in situ 14853.13 cum loose & 12625.16 cum compact waste shall be utilized for dumping at northern part and it will cover 0.233ha. 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. • 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. ▪ 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

	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:



EMP Cell structure

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

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District Survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Asna Stone Deposit of M/s Sarveshwari Stone Mines (Prop. : Shri Mihir Kumar Mandal), Village : Asna, Anchal : Govindpur, Distt.: Dhanbad, Jharkhand (1.42 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- II. In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal

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(<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.

- III. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- IV. 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.
- V. 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.
- VI. 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.
- VII. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests. Summary findings of same to be submitted along with 6 monthly compliance.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

6. Madhopur Stone Deposit of M/s Gausia Stone (Partners : Md. Shubhan Ansari & Harun Ansari), Village : Madhopur, Thana : Dhanwar, Distt.: Giridih, Jharkhand (0.789 Ha).

(Proposal no.: SIA/JH/MIN /567455/2026)

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

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

The project has been granted EC by DEIAA, Giridih vide letter no. 18/EC/DEIAA/Giridih, dated 10.02.2018 having production capacity of 5411.20 cum/annum or 14610.24 TPA of Stone..

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

This is re-appraisal of the EC issued by DEIAA, Giridih which has been taken up for consideration on 18.02.2026. As per O.M. dated 12.12.18 issued by MOEF & CC projects fall in category B2.

Dust suppression is being carried out on regular basis.

Greenbelt Developed.

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

Production detail as per letter no. 623/M, dated 19.06.2025 by DMO, Giridih is within the permissible limit of EC.

The compliance report of previous EC has been issued by Regional Officer, JSPCB, Dhanbad vide memo no. 310, dated 17.02.2026.

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 – 5411.20 Cum per year or 14610.24 Tonnes per year

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Madhopur Stone Deposit
2	Lessee	: M/s Gausia Stone Partners: Md. Subhan Ansari & Harun Ansari
3	Lessee Address	: Village – Madhopur, PO- Hemrodih, Thana - Dhanwar, District – Dhanwar, State - Jharkhand
4	Lease Area	: 0.789 ha 1.95 Acres
5	Type of Land	: Non-Forest Raiyati Land
6	Project Cost	: Rs. 45,76,000
7	EMP Budget	: Capital: Rs. 3,26,000 Recurring: Rs. 90,000 per year
8	New or Expansion	: New (Re-appraisal of DEIAA EC)
9	Mineable Reserves	: 145132.83 Tonnes 53752.9 Cum
10	Mine Life	: Upto the lease period i.e. 26.02.2022 to 25.02.2032.
11	Man power	: 17
12	Water Requirement	: 0.35 ~ 1.00 KLD
13	Water Source	: By authorised hired water tankers

14	DG Set / power	:	100 Kva
15	Crusher	:	No crusher
16	Nearest Water Body	:	Barakar Nadi, approx. 1.13 km towards East direction of mine site.
17	Nearest Habitation	:	Habitation is adjacent to the lease area. (As per Google Earth EMP submitted)
18	Nearest Rail Station	:	Dhanwar Railway station, approx. 10.34 km towards NE direction.
19	Nearest Air Port	:	Deoghar Airport, approx. 81.50 km towards ENE direction.
20	Nearest Forest	:	DFO, Giridih West Forest Division vide letter no. 1003, dated 25.06.2016 certified that the distance of notified forest is more than 440 m from proposed project site.
21	Road & Highways	:	SH- 13, Approx. 10.87 km towards NNW direction.
22	Approach Road	:	10 m.
23	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 34.45 KM from the nearest Eco Sensitive Zone of Koderma Wildlife Sanctuary.

CO-ORDINATES

Pillar	Latitude (N)	Longitude (E)
1	24°20'47.09"	85°54'43.30"
2	24°20'46.30"	85°54'44.43"
3	24°20'40.57"	85°54'40.82"
4	24°20'41.25"	85°54'39.71"

LAND DETAILS

Khata no.	Plot no.
29	03 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	i. The Letter of Intent (LoI) has been issued by Assistant Mining Officer, Giridih vide letter no. 417/M, dated 04.02.2017. ii. Lease deed 26.02.2022 to 25.02.2032.
2	CO	:	The CO, Dhanwar vide letter no. 60, dated 28.01.2017 has

			mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyani.
3	DMO Cluster	:	DMO, Giridih vide memo no. 624/M, dated 19.06.2025 certified that 03 other mining lease area (0.88 Acre, 1.12 Acre & 1.2950 Acre) exists within 500 m radius from proposed project site and total area is 5.245 Acre.
4	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 2056, dated 10.11.2025 certified that the proposed project site is outside Eco Sensitive Zone of Koderma Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Giridih West Forest Division vide letter no. 1003, dated 25.06.2016 certified that the distance of notified forest is 440 meters from proposed project site.
6	DSR	:	This project is mentioned in approved DSR of Giridih District (Sl. no. 53, Page no. 42).
7	Gram Sabha	:	Gram Sabha conducted on 02.05.2016.
8	Mine Plan / Scheme Approval	:	Mine plan approved by DMO, Giridih vide letter no. 1588/M, dated 11.07.2017.
9	Previous Environmental Clearance (EC)	:	Previous EC granted by DEIAA, Giridih vide letter no. 18/EC/DEIAA/Giridih, dated 10.02.2018.
10	Compliance report of EC	:	The compliance report of previous EC has been issued by Regional Officer, JSPCB, Dhanbad vide memo no. 310, dated 17.02.2026.
11	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-14274693 /2022 /475, dated 27.10.2022.
12	Consent to Operate (CTO)	:	CTO issued by JSPCB vide ref. no. : JSPCB/RO/HZB/CTO-17145171 /2023/210, dated 19.12.2023 valid up to 31.03.2026.
13	Production Report	:	Production report issued by DMO, Giridih vide letter no. 623/M, dated 19.06.2025.
14	Qualified Person	:	Dr. Anal Kumar Sinha through e-mail dated 18.02.2026 affirmed that the mining plan has been prepared by him.

Working Details

1	Mining Method	:	Opencast Semi-Mechanized Method
2	Quarry Area	:	0.455 Ha
3	Waste Generation	:	3828 cum

65

h

h

h

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4	Stripping Ratio	:	1:0.05
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	333 AMSL to 340 AMSL
8	Ground Level Elevation	:	333 AMSL
9	Ultimate Working Depth	:	328 AMSL (5m bgl)
10	Water Table	:	320 AMSL (13 m bgl)
11	Topography of Mine	:	Area represents gently rising topography.
12	Explosive Requirement	:	70 kg/day
13	Diesel/Fuel requirement	:	90 litre/day

Production Details

Year	Production of Stone (Cum)	Production of Stone (Tonnes)	Generation of I/Waste (Cum)	Total Waste (Cum)
1 st Year	5378.90	14523.03	764	764
2 nd Year	5353.25	14453.78	761	761
3 rd Year	5407.40	14599.98	768	768
4 th Year	5411.20	14610.24	769	769
5 th Year	5387.18	14545.40	766	766
Total	26937.93	72732.43	3828	3828

Year	Proposed Production of EC in Tons
1 st	14523.03
2 nd	14453.78
3 rd	14599.98
4 th	14610.24
5 th	14545.40
Total	72732.43

As per approved mine plan production: - 5411.20 cum/annum or 14610.24 TPA

As per EC letter production: - 5411.20 cum/annum or 14610.24 TPA

Land Use

Land Utilization	Existing Land Use (Ha)	At the End of Plan Period (Ha)	At Conceptual Period (Ha)
Quarry	0.010	0.372	0.455 (0.20 ha converted into water reservoir)
Road	0.023	0.037	NIL (comes under quarry)
Safety Zone	0.334 (Plantation)	0.334 (Plantation)	0.334 (Plantation)
Total used area	0.367	0.743	0.789
Unused Area	0.422	0.046	0.00
Total Lease Area	0.789		

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.334	535 (Already done during previous year of mining)	1600 Tree per Hectare	planted during previous year of mining	Mango, Jackfruits, Jamun, Babul, Gulmohar, Neem, Pipal, Arjun, etc.
Length of Approach Road Area (m.)	10	20	2m X 2 m spacing in two rows	1st Year	
	Total	555			

			both side		
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Note: A total of 555 saplings were proposed to be planted. Out of which 535 plant in Safety Zone area have been planted during previous year of mining.

(20 plants along approach road will be done in the first year of operation. (Total 20 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.

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital(Rs.)	Recurring(Rs.)
Land			19,50,000	1,95,000
Infrastructure			15,00,000	1,50,000
Mining Equipment			0.00	38,00,000
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Dumper	2	4,00,000		
Compressor	1	10,00,000		
Water Sprinkler	1	6,00,000		
Rock Breaker	2	4,00,000		
Excavator	2	8,00,000		
Loader	2	6,00,000		
@Per Dumper-2,00,000/- @Per Compressor-10,00,000/- @Per Water Sprinkler -6,00,000/- @Per Rock Breaker-2,00,000/- @Per Excavator-4,00,000/- @Per Loader-3,00,000/-				
Water Facility for Domestic Purpose "0.17" KLD (Annual Water Demand "51"KL @4L per Tanker, total number of			0.00	6,500

tanker required ("13") and per tanker cost @Rs. 500)		
Statutory Clearances	6,00,000	0.00
Mine Closure Cost for Plantation of "0" number of trees @Rs. 300 per tree for plant & @Rs. 50 per tree for maintenance	0.00	0.00
Mine Closure Cost for fencing around mine	2,00,000	0.00
Environment Management Plan (EMP) Cost	3,26,000	90,000
Total	45,76,000	42,41,500

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital(Rs.)	Recurring(Rs.)
20 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	6,000	1,000
Water Tanker @Rs. 500 per Tanker for Dust Suppression (0.06 KLD) & Horticulture (0.12 KLD) 0.06 + 0.12 = 0.18 KLD 0.18 KLD X 300 Days = 54 KLD 54 KLD / 4 KLD = 14 Tankers	0	7,000
Environment Monitoring & Compliance	0	50,000
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF & CC	3,20,000	32,000
Garland Drain & Retaining wall	0	0
Total	3,26,000	90,000

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

S. no	Monitoring Parameters	No. of Locations	Frequency of Monitoring
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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	It has been calculated that total 3828 cum waste shall be generated during this plan period. The waste will be dumped in the applied area temporarily with suitable precaution in the plan period and will be used for road dressing.
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.

	• 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

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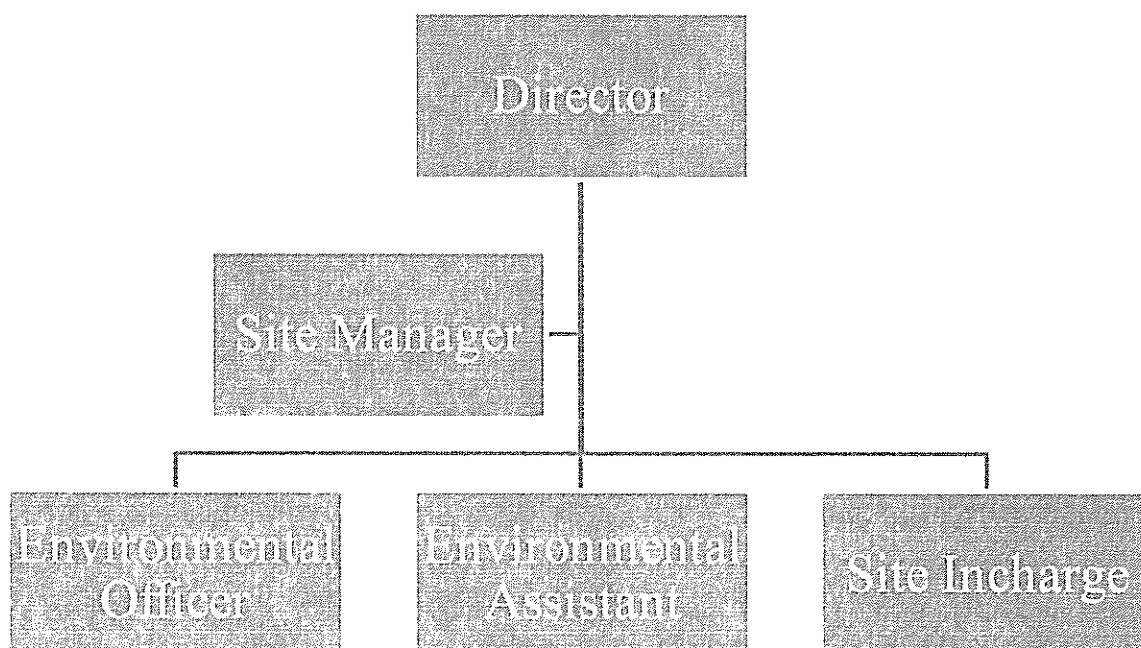
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		harness for the driller to wear. ▪ Restricted access to the area to all persons except those necessary for the drilling operation. ▪ Wet drilling will be carried out by constantly injecting a jet of water at the drill bit inside the hole, which prevents dust generation. ▪ In case due to any reason, wet drilling is not possible (due to non-availability of water), exhaust/ vacuum system will be provided which removes the dust from the drill hole continuously and discharges the same in a dust collector specially provided for the purpose. ▪ Drilling machine shall be fitted with dust suppression, collection and disposal arrangement.
Blasting Handling Explosives	& of	▪ 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 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:



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.

During appraisal the Committee observed from the KML file that several houses exist in the vicinity of the project. The PAs clarified that at the time of grant of EC by DEIAA, Giridih in 2018, no such houses were present in the vicinity of the project. The PAs also produced a certificate of the then Circle Officer, Dhanwar bearing letter no. 60, dated 28.01.2017 stating that no habitation within 500 meters of the project.

Hence, the project was taken up for re-appraisal based on the above fact with some specific conditions.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Madhopur Stone Deposit of M/s Gausia Stone (Partners : Md. Shubhan Ansari & Harun Ansari), Village : Madhopur, Thana : Dhanwar, Distt.: Giridih, Jharkhand (0.789 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

1. The project authorities shall obtain clearance from Director General of Mines Safety (DGMS) regarding the effect of blasting activities for the safety of the habitation in the vicinity of mine before start of operation of the mine. The Deputy Commissioner,

Giridih / District Mining Officer, Giridih will ensure the compliance of the same.

- II. The production shall be restricted as per approved mining scheme or the approved mine plan at the time of EC, which ever is less.
- III. 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.
- IV. 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.
- V. 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.
- VI. 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.
- VII. 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.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.



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7. Tantri Stone Mine of M/s Jugnu Construction Company, Village : Tantri, Thana : Jaridih, Distt.: Bokaro, Jharkhand (1.70 Ha).

(Proposal no.: SIA/JH/MIN /560062/2026)

The project authorities have personally requested before the Committee for deferment of the proposal due to some personal reason.

Hence, the project will be taken up for consideration on the request of the project authorities.

8. Chota Tangrani Stone Mine of M/s Mata Enterprises (Prop. : Shri Tarun Kumar Dey), Village : Chota Tangrani, Thana : Saraikela, Distt. : Saraikela-Kharsawan, Jharkhand (1.82 Ha).

(Proposal no.: SIA/JH/MIN/ 526226 /2025)

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

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

The project has been granted EC by DEIAA, Saraikela - Kharsawan vide letter no. EC/DEIAA/Saraikela /2016-17/48, dated 21.03.2017.

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

This is re-appraisal of the EC issued by DEIAA, Saraikela - Kharsawan which has been taken up for consideration on 18.02.2026. As per O.M. dated 12.12.18 issued by MOEF & CC projects fall in category B2.

Dust suppression is being carried out on regular basis.

Greenbelt Developed.

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

Production detail as per memo no. 937/M, dated 12.09.2024 by DMO, Saraikela - Kharsawan is within the permissible limit of EC.

The compliance report of previous EC has been issued by Member Secretary, JSPCB, Ranchi vide memo no. Mata Enterprises / 14/03-2025/913, dated 26.03.2025.



A certification of the compliance of the conditions of previous EC issued by JSPCB has been submitted to SEAC. The Committee desired 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 – 27337.03 cum/annum or 73810 TPA

Project and Location Details:

SI	Parameter	Details
1	Project Name	: Chota Tangrani Stone Mine
2	Lessee	: M/s Mata Enterprises Proprietor- Sri Tarun Kumar Dey
3	Lessee Address	: M/s Mata Enterprises Proprietor- Sri Tarun Kumar Dey Village + P.O.- Kanderbera, Thana – Chandil, District – Saraikela- Kharsawan, State- Jharkhand
4	Lease Area	: 1.82 ha 4.50 Acres
5	Type of Land	: Non-Forest Raiyati Land
6	Project Cost	: Capital: Rs. 77,38,000/-
7	EMP Budget	: Capital: Rs. 9,38,000/- Recurring: Rs. 3,94,300/- per year
8	New or Expansion	: New (Re-appraisal of DEIAA EC)
9	Mineable Reserves	: 254998.14 cum 688495 tons
10	Mine Life	: Upto the lease period i.e. 11.09.2017 to 10.09.2027.
11	Man power	: 41
12	Water Requirement	: 7.0 KLD
13	Water Source	: By authorised hired water tankers
14	DG Set / power	: 40 KVA
15	Crusher	: No crusher
16	Nearest Water Body	: Kharkai River (0.95 km)
17	Nearest Habitation	: Nearest Habitation is 340 meters towards East direction
18	Nearest Rail Station	: Mahali Marup Railway Station, approx. 8.0 km towards NNW direction.
19	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 91.56 km towards NW direction.
20	Nearest Forest	: Divisional Forest Officer, Saraikela certified that the distance of reserved / protected forest is more than 250 meters from proposed project site.
21	Road & Highways	: NH-43, approx. 280 m towards SE direction.
22	Approach Road	: approx, 350 meters
23	Distance of nearest ESZ of Wildlife Sanctuary or National Park	: The project location is at approx. 31.68 KM from the nearest Eco Sensitive Zone of Dalma Wildlife Sanctuary.

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CO-ORDINATES

Pillar No.	Latitude	Longitude
1	22°41'14.97" N	85°54'28.10" E
2	22°41'16.38" N	85°54'28.21" E
3	22°41'16.95" N	85°54'26.49" E
4	22°41'19.02" N	85°54'26.22" E
5	22°41'17.05" N	85°54'24.48" E
6	22°41'18.16" N	85°54'24.02" E
7	22°41'19.53" N	85°54'22.94" E
8	22°41'20.59" N	85°54'23.80" E
9	22°41'20.70" N	85°54'26.28" E
10	22°41'20.29" N	85°54'26.80" E
11	22°41'19.54" N	85°54'26.45" E
12	22°41'19.58" N	85°54'29.40" E
13	22°41'20.28" N	85°54'29.45" E
14	22°41'20.38" N	85°54'30.24" E
15	22°41'20.03" N	85°54'31.35" E
16	22°41'19.16" N	85°54'30.63" E
17	22°41'18.64" N	85°54'29.93" E
18	22°41'17.81" N	85°54'30.11" E
19	22°41'16.30" N	85°54'30.34" E
20	22°41'15.31" N	85°54'29.66" E

LAND DETAILS

Khata no.	Plot no.
110	52, 74 & 142

STATUTORY CLEARANCES

1	LOI / Lease docs	:	Lease deed 11.09.2017 to 10.09.2027.
2	CO	:	The CO, Saraikela vide letter no. 956, dated 19.10.2016 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyani & Register II. During the appraisal it was seen from the KML that few houses at a distance of 340 meters from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO	:	DMO, Saraikela - Kharsawan vide letter no. 1185/M, dated 06.12.2024 certified that no other mining lease area exists within 500 meters radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 269, dated 19.02.2025 certified that the proposed project site is outside Eco Sensitive

			Zone of Dalma Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Saraikela Forest Division, Saraikela vide letter no. 154, dated 27.01.2026 certified that the distance of reserved / protected forest is more than 250 meter from proposed project site.
6	DSR	:	This project is mentioned in approved DSR of Saraikela-Kharsawan District (Sl. No. 13, Page no. 96).
7	Gram Sabha	:	Gram Sabha conducted on 23.10.2016.
8	Scheme / Mine Plan Approval	:	i. Mining plan approved by AMO, Saraikela-Kharsawan vide memo no. 2732, dated 05.12.2016. ii. Mining scheme approved by Additional Director, Geology, Hazaribag vide letter no. 629/G, dated 28.07.2021. iii. Modification of Mining scheme approved by DMO, Saraikela-Kharsawan vide letter no. 93/Mining, dated 20.01.2025.
9	Previous Environmental Clearance (EC)	:	Previous EC granted by DEIAA, Saraikela-Kharsawan vide letter no. EC/DEIAA/Saraikela /2016-17/48, dated 21.03.2017.
10	Compliance report of EC	:	The compliance report of previous EC has been issued by Member Secretary, JSPCB, Ranchi vide memo no. Mata Enterprises / 14/03-2025/913, dated 26.03.2025.
11	Consent to Establish (CTE)	:	CTE issued by JSPCB vide ref. no. JSPCB/HO/RNC/CTE-2068422/2018/306, dated 26.03.2018.
12	Consent to Operate (CTO)	:	CTO issued by JSPCB vide ref. no. : JSPCB/RO/JSR/CTO-1529478/2023/9, dated 01.02.2023.
13	Production Report	:	Production report issued by DMO, Saraikela-Kharsawan vide memo no. 937/M, dated 12.09.2024.
14	Qualified Person	:	Shri Sahadev Singh was present in the meeting and affirmed that the mining scheme has been prepared by him.

Working Details

1	Mining Method	:	Opencast mechanized Method
2	Quarry Area	:	1.82 Ha
3	Waste Generation	:	6093 cum
4	Stripping Ratio	:	1:0.03
5	Working Days	:	300
6	Bench: size & No	:	6m to 6m

7	Elevation of Mine	:	173 AMSL to 180 AMSL
8	Ground Level Elevation	:	173 AMSL
9	Ultimate Working Depth	:	156 AMSL
10	Water Table	:	140 AMSL
11	Topography of Mine	:	Area represents moderately undulating terrain
12	Explosive Requirement	:	28 kg/day
13	Diesel/Fuel requirement	:	120 litre/day

Production Details:

As per the Mine Plan:

Year	Total excavation of stone, waste & gritty soil in cum	Total Excavation Stone		Total excavation of waste & gritty soil in cum
		Cum	Tons	
1 st	28810	26988	72867	1822
2 nd	28492	27067	73082	1425
3 rd	28446	27024	72964	1422
4 th	28475	27051	73038	1424
Total	114223	108130	291951	6093

As per the EC Letter:

Year	Production as per the EC in Tons
1 st	73053
2 nd	73810
3 rd	73537
4 th	73387
5 th	73224
Total	367011

As per approved mine plan production: - 27067 cum/annum or 73082 TPA

As per EC letter production: - 27337.03 cum/annum or 73810 TPA

Land Use

Category	Present Land Use (in Ha)	At the end of plan period (in Ha)	At the end of Mine (in Ha)
Excavation	0.88	0.99	1.05 (entire area will converted as water reservoir)
Waste Dump	0.00	0.0	Comes Under excavation

Mine Road	0.08	0.01	Comes Under excavation
Safety Barrier	0.77 (Plantation)	0.77 (Plantation)	0.77 (Plantation)
Total area in use	1.73	1.77	1.82
Balanced Unused Area	0.09	0.05	0.00
Total Lease area	1.82		

Green Belt Development

	Area / Length	Number of Trees	Remarks	Timeline	Species
Area in Safety Zone (Ha.)	0.77	1232	1600 Tree per Hectare	1st Year	Arjun, Jackfruits, Jamun, Babul, Gulmohar, Neem, Pipal, Mango etc.
Length of Approach Road Area (m.)	350	700	2m X 2 m spacing in two rows both side		
Dead Bench (Ha.)	-	-	1600 Tree per Hectare	At the end of life of mine	
Backfilled (Ha.)	-	-			
Total		1932			

Note: A total of 1932 saplings were proposed to be planted. Out of which 1232 plants in Safety Zone area have been planted during previous year of mining.
(700 plants along approach road will be done in the first year of operation).

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

BUDGETARY PROVISION (IN LAKHS)

PROJECT COST

Particulars			Capital(Rs.)	Recurring(Rs.)
Land			45,00,000	4,50,000
Infrastructure			15,00,000	1,50,000
Mining Equipment			0.00	35,00,000
<i>Equipment</i>	<i>Quantity</i>	<i>Rent per year</i>		
Dumper	2	400000		
Compressor	1	1000000		
Water Sprinkler	1	600000		

Rock Breaker	2	400000		
Excavator	2	800000		
Loader	1	300000		
@Per Dumper-2,00,000/- @Per Compressor-10,00,000/- @Per Water Sprinkler -6,00,000/- @Per Rock Breaker-2,00,000/- @Per Excavator-4,00,000/- @Per Loader-3,00,000/-				
Water Facility for Domestic Purpose "0.41" KLD (Annual Water Demand "123"KL @4L per Tanker, total number of tanker required ("31") and per tanker cost @Rs. 500)			0.00	15500
Statutory Clearances			6,00,000	0.00
Mine Closure Cost for fencing around mine			2,00,000	0.00
Environment Management Plan (EMP) Cost			9,38,000	3,94,300
Total			77,38,000	45,09,800

ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital (Rs.)	Recurring (Rs.)
700 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	2,10,000	35,000
Water Tanker @Rs. 500 per Tanker for Dust Suppression (2.10 KLD) & Horticulture (4.20 KLD) 2.10 + 4.20 = 6.30 KLD 6.30 KLD X 300 Days = 1890 KLD 1890 KLD / 4 KLD = 473 Tankers	0	2,36,500
Environment Monitoring & Compliance	0	50,000
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF & CC	7,28,000	72,800
Garland Drain & Retaining wall	0	0
Total	9,38,000	3,94,300

Environment Monitoring Plan

Monitoring Parameters and Frequency of Monitoring

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

2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise: Day & Night level Noise Monitoring.	4 stations	Six Monthly
4	Soil: Soil Monitoring, Qualitative and quantitative testing/analysis to check the soil fertility, porosity, texture, water holding capacity, etc.	2 stations	Six Monthly

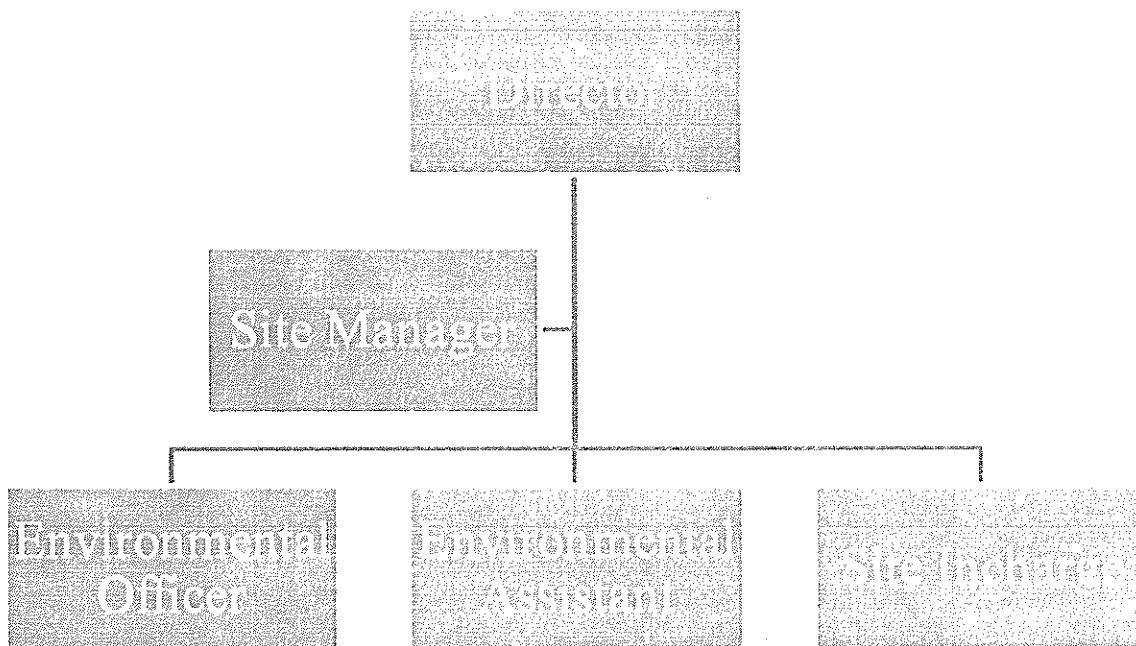
Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	It can be seen from the development programme that there will be generation of 6093 cum waste during this modification to the approved scheme period. During the modification to the approved scheme period, generation of waste will be part use for plantation and used for village road, haul road maintenance.
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. • 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. ▪ 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 &	▪ Blast hole geometry shall be properly designed.

Handling of Explosives	▪ 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 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:



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:

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

- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Chota Tangrani Stone Mine of M/s Mata Enterprises (Prop. : Shri Tarun Kumar Dey), Village : Chota Tangrani, Thana : Saraikela, Distt. : Saraikela-Kharsawan, Jharkhand (1.82 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- II. The production shall be restricted as per approved mining scheme or the approved mine plan at the time of EC, which ever is less.
- III. 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.
- IV. 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.
- V. 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.
- VI. 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

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done such that the haul road is kept moistened all the time with Geo-Tagged photographs.

- VII. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests . Summary findings of same to be submitted along with 6 monthly compliance.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

9. Karondajor Stone Mine of Smt. Saroj Minz, Village : Karondajor, Thana : Bharno, Distt. : Gumla, Jharkhand (4.65 Ha).

(Proposal no.: SIA/JH/MIN/ 566440 /2026)

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

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

This is re-appraisal of the EC issued by DEIAA, 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 121st meeting held on 08.03.2025 - 12.03.2025 and SEIAA, Jharkhand has approved the ToRs in 121st meeting held on 19th & 20th 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	:	Karondajor Stone Mine
2	Lessee:	:	Smt. Saroj Minz
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.
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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).
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	
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	

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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 st	209201.40	209200	77481	4092	664-646
2 nd	210124.80	210124	77824	3873	652-646
3 rd	211479.12	211478	78325	773	658-640
4 th	211561.20	211559	78355	384	646-634
5 th	211068.72	211068	78173	-	640-634
Total	1053435.24	1053429.00	390158.00	9122	

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	-	-	-
Total area in use	1.86	4.543	4.65	3.92	0.73
Balanced Area Unused	2.79	0.107	-	-	-
Total Lease area	4.65	4.65	4.65	4.65	

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location		Area/Length	No. of Trees
1	Safety Zone	:		1825

			0.73 ha	(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 ³ to 48.39µg/m ³ PM10- 54.59 µg/m ³ to 85.96 µg/m ³ SO ₂ - 5.18 to 13.63 µg/m ³ NO ₂ - 10.42 µg/m ³ to 20.04 µg/m ³
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 μ mhos/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).
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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 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. Tution 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.
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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		61,00,000
Compressor	2	20,00,000		
Water Tanker	2	12,00,000		
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
Environment Management Plan (EMP) Cost			29,57,800	9,97,300.00
Total			2,87,77,800.00	1,39,24,300.00

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
Suggestions As per Public Hearing		
Arrangement of 02 Hand Pump with deep boring for water	2,50,000	50,000

facility		
Budget for Tuition teachers arranged for education	-	1,20,000
Total	29,57,800	9,97,300.00

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 provided on the basis of capability and experience of local people	
TOTAL				5.00

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:

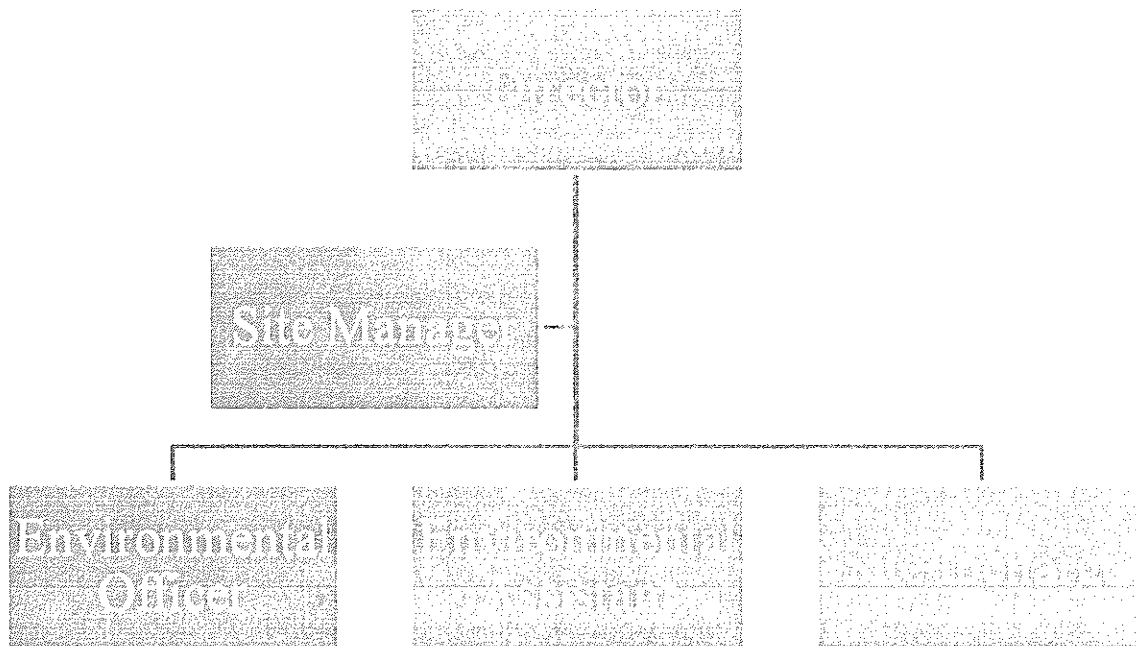
Aspect	Mitigation Measures / Control Measures
Solid Waste	Total 9122 cum waste generated during the plan period which shall be

Management	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	• 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. • 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. - 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 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:



EMP Cell structure

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

Undertaking submitted affirming:

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

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Karondajor Stone Mine of Smt. Saroj Minz, Village : Karondajor, Thana : Bharno, Distt. : Gumla, Jharkhand (4.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- II. The production shall be restricted as per approved mining scheme or the approved mine plan at the time of EC, which ever is less.
- III. 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.
- IV. 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.
- V. 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.
- VI. 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.

- VII. 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.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

10. Karondajor Stone Mine of Shri Bihari Ohdar, Village : Karondajor, Thana : Bharno, Distt. : Gumla, Jharkhand (4.65 Ha).

(Proposal no.: SIA/JH/MIN/ 566474 /2026)

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

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/2016-17/0018/2017/12/EC, dated 25.03.2017.

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

This is re-appraisal of the EC issued by DEIAA, 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 121st meeting held on 08.03.2025 – 12.03.2025 and SEIAA, Jharkhand has approved the ToRs in 121st meeting held on 19th & 20th March, 2025. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3572/2024/703, 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. 65/M, 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. 433, 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- 100039.27 cum/annum or 270106.04 TPA.

Project and Location Details:

Sl	Parameter		Details
1	Project Name	:	Karondajor Stone Mine
2	Lessee:	:	Sri Bipin Bihari Ohdar
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. 2,88,07,800.00/-
7	EMP Budget	:	Capital: Rs. 29,87,800/- Recurring: Rs 10,39,800.00 /year
8	New or Expansion	:	New (Re-appraisal of DEIAA EC)
9	Mineable Reserves	:	779325.92tons 2104180 cum
10	Mine Life	:	Upto lease period i.e 30.11.2017 to 29.11.2027.
11	Man power	:	39
12	Water Requirement	:	13.09 ~ 13.10 KLD (Drinking: 0.39 KLD, Dust Suppression: 6.85 KLD, Plantation: 5.85 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 WSW direction.
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. 13.73 KM from the nearest Eco Sensitive Zone of Palkot Wildlife Sanctuary.

CO-ORDINATES

1	Latitude	:	From 23°05'51.68"N	To 23°06'02.19" N
2	Longitude	:	From 84°48'43.25" E	To 84°48'50.79" 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. 482 (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. 844/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. 1013, 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. 2916, 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. 30, Page no. 43).
7	Gram Sabha	:	Gram Sabha conducted on 11.11.2016.

8	Scheme / Mine Plan Approval	:	Mining scheme approved by DMO, Gumla vide letter no. 195/M, dated 14.02.2022.
9	Previous Environmental Clearance (EC)	:	Previous EC granted by DEIAA, Gumla vide letter no. EC/DEIAA/2016-17/0018/2017/12/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. 433, dated 19.02.2026.
11	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-2094299 /2018/226, dated 28.02.2018.
12	Consent to Operate (CTO)	:	CTO issued by JSPCB vide ref. no. : JSPCB/RO/RNC/CTO-12173037 /2022/94, dated 26.04.2022.
13	Production Report	:	Production report issued by DMO, Gumla vide memo no. 65/M, 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	:	4.00 ha	Life of Mine – Upto lease period i.e 30.11.2017 to 29.11.2027.
3	Waste Generation	:	8035 Cum	
4	Stripping Ratio	:	1:0.05	
5	Working Days	:	300	
6	Benches: size & No	:	6m x 6m	
7	Elevation of Mine	:	642 AMSL to 674 AMSL	
8	Ground Level Elevation	:	642 AMSL	
9	Ultimate Working Depth	:	632 AMSL (10 mbgl)	
10	Water Table	:	618-616 AMSL (24-26 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
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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 st	269893.15	269892	99960	4635	668-656
2 nd	270071.42	270070	100026	--	662-650
3 rd	269991.26	269991	99996	3400	662-644
4 th	270106.04	270103	100038	--	655-638
5 th	269964.97	269962	99986	--	644-632
Total	1350026.84	13,50,018	5,00,006	8035	

As per approved mine plan production: - 100038 cum/annum or 270103 TPA

As per EC letter production: - 100039.27 cum/annum or 270106.04 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	1.25	2.830	4.0 (including Backfill 0.23Ha.)	4.0	-
Safety Barrier	0.65 (Plantation)	0.65 (Plantation)	0.65 (Plantation)	-	0.65 (Plantation)
Dump	-	0.160	-	-	-
Parapet Wall	-	0.005	-	-	-
Garland Drain	-	0.006	-	-	-
Road	0.06	0.050	-	-	-
Total area in use	1.96	3.701	4.65	4.0	0.65

Balanced Area Unused	2.69	0.949	-	-	-
Total Lease area	4.65	4.65	4.65	4.65	

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location		Area/Length	No. of Trees
1	Safety Zone	:	0.65 ha	1625 (Already done during previous year of mining)
2	Along Approach Road	:	600 m	1200
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	1625+1+100= 1726

Note: A total of 4551 saplings were proposed to be planted. Out of which 1625 plant in Safety Zone area have been planted during previous year of mining.

(1200 plant along approach road & 100 plants with consultation from local authorities/village Panchayat + 1625 Twice as per TOR point + 1 Ek Ped Ma Ke Naam) will be done in the first year of operation. (Total 2926 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 ³ to 48.39µg/m ³ PM10- 54.59 µg/m ³ to 85.96 µg/m ³ SO ₂ - 5.18 to 13.63 µg/m ³ NO ₂ - 10.42 µg/m ³ to 20.04 µg/m ³
Noise level monitoring	8 locations	During daytime- 50.04 to 57.2 dB (A) During Night time- 36.2 to 40.8 dB (A)

107

h

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h

		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- 5 locations	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 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. Tution 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 within 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>		61,00,000
Wagon Drill	2	4,00,000		
Compressor	2	20,00,000		
Water Tanker	2	12,00,000		
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
Environment Management Plan (EMP) Cost			29,87,800	10,39,800.00
Total			2,88,07,800.00	1,39,66,800.00

COST PROPOSED FOR EMP

Particulars	Capital	Recurring
2926 Tree Plantation @Rs.300 per Tree for planting & @Rs.50 per tree for maintenance	8,77,800.00	1,46,300.00
Water Tanker @Rs. 500 per Tanker for Dust Suppression (6.85 KLD) & Horticulture (5.85 KLD)	0	4,87,500.00

6.85 + 5.85 = 12.70 or 13.00 KLD 13.00 X 300 Days = 3900 KLD 3900 KLD / 4 KLD = 975 Tankers		
Environment Monitoring & Compliance	0	50,000.00
To prevent the impact of mining activities on these habitations under compliance of OM Z-11013/57/2014-IA.II (M) dated 29/10/2014 issued by MoEF& CC	18,60,000.00	1,86,000.00
Suggestions As per Public Hearing		
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
Total	29,87,800	10,39,800.00

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 provided on the basis of capability and experience of local people	
TOTAL				5.00

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
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Environment Management Practices to be followed:

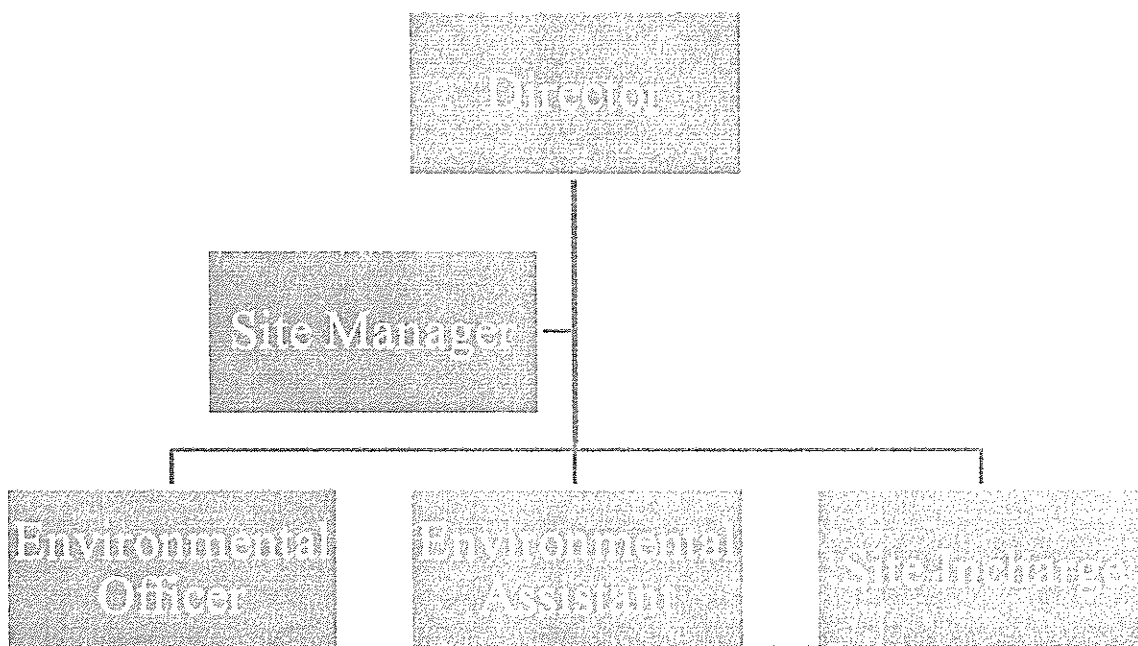
Aspect	Mitigation Measures / Control Measures
Solid Waste Management	Total 8035 Cum waste generated during the plan period which shall be used in making and maintenance of haul road and village road, so there is no requirement of waste dumping Plan for this mining plan period because it is used for village & haul road maintenance.
Air Quality Management	• 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. • 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. ▪ 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 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:



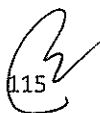
EMP Cell structure

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

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District Survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Karondajor Stone Mine of Shri Bihari Ohdar, Village : Karondajor, Thana : Bharno, Distt. : Gumla, Jharkhand (4.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :



- I. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- II. The production shall be restricted as per approved mining scheme or the approved mine plan at the time of EC, whichever is less.
- III. 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.
- IV. 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.
- V. 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.
- VI. 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.
- VII. 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.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

11. Tubed Coal Mine Project of M/s Damodar Valley Corporation, Village : Tubed, Mangra, Dihi, Ambajharan, Dhobiajharan, Nawari, Tehsil : Latehar, Distt. : Latehar, Jharkhand (460.00 Ha).

(Proposal no.: SIA/JH/CMIN/ 563453 /2026)

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

This is an amendment project which was listed for consideration on 18.02.2026 which has been taken for appraisal on 20.02.2026 on the request of the PAs.

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

Tubed Coal Mine is an existing project and operating since pre-nationalization era, falling in the Latehar District of Jharkhand. The Environment Clearance (EC) for Tubed Coal Mine was granted by MoEF&CC New Delhi vide letter no. J-11015/54/2017-IA.II (M), dated 20.04.2020 and further amended EC was issued by MoEF&CC, Govt. of India vide letter no. IA-J-11015/54/2017-IA-II (M), dated 30.08.2023 with respect to the specific condition no. xv i.e. No transportation of coal shall be carried by road after commission of proposed railway siding near the coal mine i.e. 36 months w.e.f. 27.04.2023.

The present proposal for amendment of the Environmental Clearance pertains to the use of road for transportation of coal till the year 2029-2030 and exemption of installation of pit conveyer till mid of 2029-2030. In this regard, the Project Proponent has sought amendment of the Environmental Clearance, for which an online application in Form-4, along with other requisite documents, has been submitted.

Objective of Proposal for EC Amendment:

- **Specific Condition No. (xv):** No transportation of coal shall be carried by road after commission of proposed railway siding near the coal mine i.e. after 36 months from the date of issue of EC"
- **Amendment Sought :** Extend the timeline for road transportation to the Kushmahi siding (approx. 45 KM) with the addition of Biratoli siding which is 12.5 KM from Kushmahi siding and any other suitable siding coming up in near future until the commissioning of the new mine-end railway siding, projected for the mid of FY 2029-2030
- **Specific condition no. (xxiii)** "Install in-pit conveyor from the pit bottom up to the silo loading point/rapid loading system within 3 yrs and further no transportation shall be carried over by trucks to railway siding."
- **Amendment Sought:-** Align the cessation of truck transportation and the commissioning of the in-pit conveyor/RLS with the revised rail completion date (mid-2029-2030).

PROJECT AND LOCATION DETAILS:

SN	Parameter		Details
1	Project Name	:	Tubed Coal Mine

2	Project Proponent	:	M/s Damodar Valley Corporation Hotel the Carnival Complex, 1st Floor Jublee Road, Latehar, Dist Latehar, Jharkhand
3	Address	:	Hotel the Carnival Complex, 1st Floor Jublee Road, Latehar, Dist Latehar, Jharkhand
4	Area	:	Ha: 460 ha. Acres: 1136.68 Acres
5	Type of Land	:	Forest Land: 162.39 Ha, Non-Forest Land: 297.61 Ha
6	Project Cost	:	Rs. 1300 crore
9	Proposal	:	Amendment in EC
10	Mineable Reserves	:	Coal: 170.838 Mtes OB: 280 M cum
11	Mine Life	:	30 years
12	Man power	:	400
13	Water Requirement	:	700 KL/Day
14	Water Source	:	Mine seepage & rain water stored in mine sump
15	DG Set / power	:	6.9 MW from DVC Substation
16	Crusher	:	No
17	Water Body	:	Sukri River flows through the M.L area. Auranga River (8.0 KM)
18	Nearest Habitation	:	Tubed (within the lease area)
19	Railway Station	:	Latehar railway station (15 KM)
20	Nearest Air Port	:	Ranchi (110 KM)
21	Nearest Forest	:	Within Project boundary
22	Road & Highways	:	NH-39 (approx. 9.45 km)
23	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 12.62 KM from the nearest Eco Sensitive Zone of Palamau Wildlife Sanctuary, Mahuadanr Wolf Sanctuary and Betla National Park.

CO-ORDINATES:

Point ID	Longitude (X)	Latitude (Y)
1	84°34' 1.993" E	23°49' 17.307" N
2	84°34' 2.247" E	23°49' 18.143" N
3	84°34' 1.933" E	23°49' 20.322" N
4	84°34' 1.816" E	23°49' 21.221" N
5	84°34' 1.676" E	23°49' 22.227" N
6	84°34' 1.602" E	23°49' 22.891" N
7	84°34' 1.334" E	23°49' 25.418" N
8	84°34' 0.959" E	23°49' 28.545" N

9	84°34' 0.509" E	23°49' 32.625" N
10	84°34' 0.102" E	23°49' 36.126" N
11	84°33' 59.867" E	23°49' 38.192" N
12	84°33' 59.524" E	23°49' 41.340" N
13	84°33' 59.042" E	23°49' 45.367" N
14	84°33' 58.721" E	23°49' 48.290" N
15	84°34' 0.233" E	23°49' 49.349" N
16	84°34' 2.439" E	23°49' 50.918" N
17	84°34' 4.653" E	23°49' 52.477" N
18	84°34' 6.198" E	23°49' 53.618" N
19	84°34' 7.552" E	23°49' 54.585" N
20	84°34' 8.888" E	23°49' 55.534" N
21	84°34' 10.372" E	23°49' 56.582" N
22	84°34' 11.489" E	23°49' 57.394" N
23	84°34' 12.407" E	23°49' 58.045" N
24	84°34' 14.587" E	23°49' 59.614" N
25	84°34' 15.871" E	23°50' 0.549" N
26	84°34' 17.777" E	23°50' 1.906" N
27	84°34' 19.342" E	23°50' 3.033" N
28	84°34' 21.100" E	23°50' 4.301" N
29	84°34' 22.536" E	23°50' 5.322" N
30	84°34' 23.529" E	23°50' 6.038" N
31	84°34' 24.461" E	23°50' 6.720" N
32	84°34' 25.411" E	23°50' 7.412" N
33	84°34' 26.880" E	23°50' 8.445" N
34	84°34' 27.932" E	23°50' 9.218" N
35	84°34' 29.043" E	23°50' 10.003" N
36	84°34' 30.304" E	23°50' 10.897" N
37	84°34' 30.670" E	23°50' 10.592" N
38	84°34' 30.755" E	23°50' 10.517" N
39	84°34' 32.116" E	23°50' 9.300" N
40	84°34' 33.456" E	23°50' 8.132" N
41	84°34' 35.063" E	23°50' 6.748" N
42	84°34' 35.854" E	23°50' 6.042" N
43	84°34' 36.954" E	23°50' 5.052" N
44	84°34' 38.503" E	23°50' 3.719" N
45	84°34' 40.011" E	23°50' 2.410" N
46	84°34' 41.224" E	23°50' 1.358" N
47	84°34' 42.872" E	23°49' 59.881" N
48	84°34' 44.167" E	23°49' 58.843" N
49	84°34' 45.226" E	23°49' 57.938" N
50	84°34' 46.514" E	23°49' 56.832" N

51	84°34' 48.224" E	23°49' 55.317" N
52	84°34' 49.368" E	23°49' 54.303" N
53	84°34' 50.701" E	23°49' 53.124" N
54	84°34' 51.808" E	23°49' 52.172" N
55	84°34' 52.935" E	23°49' 51.144" N
56	84°34' 54.076" E	23°49' 50.143" N
57	84°34' 55.608" E	23°49' 48.793" N
58	84°34' 56.132" E	23°49' 48.413" N
59	84°34' 57.338" E	23°49' 47.238" N
60	84°34' 58.524" E	23°49' 46.141" N
61	84°34' 59.425" E	23°49' 45.274" N
62	84°35' 0.531" E	23°49' 44.202" N
63	84°35' 1.323" E	23°49' 43.455" N
64	84°35' 2.094" E	23°49' 42.756" N
65	84°35' 2.666" E	23°49' 42.081" N
66	84°35' 2.889" E	23°49' 41.868" N
67	84°35' 4.208" E	23°49' 40.638" N
68	84°35' 5.188" E	23°49' 39.706" N
69	84°35' 5.945" E	23°49' 38.997" N
70	84°35' 6.953" E	23°49' 38.041" N
71	84°35' 8.025" E	23°49' 37.030" N
72	84°35' 9.121" E	23°49' 36.002" N
73	84°35' 9.868" E	23°49' 35.310" N
74	84°35' 10.403" E	23°49' 34.868" N
75	84°35' 11.281" E	23°49' 34.069" N
76	84°35' 12.350" E	23°49' 33.079" N
77	84°35' 13.584" E	23°49' 31.945" N
78	84°35' 14.745" E	23°49' 30.862" N
79	84°35' 15.862" E	23°49' 29.834" N
80	84°35' 17.538" E	23°49' 28.241" N
81	84°35' 18.658" E	23°49' 27.234" N
82	84°35' 19.555" E	23°49' 26.407" N
83	84°35' 19.672" E	23°49' 26.291" N
84	84°35' 21.009" E	23°49' 25.099" N
85	84°35' 21.516" E	23°49' 24.640" N
86	84°35' 21.879" E	23°49' 24.280" N
87	84°35' 22.986" E	23°49' 23.245" N
88	84°35' 23.466" E	23°49' 22.704" N
89	84°35' 24.353" E	23°49' 21.744" N
90	84°35' 25.223" E	23°49' 20.867" N
91	84°35' 26.330" E	23°49' 19.706" N
92	84°35' 27.934" E	23°49' 17.996" N

93	84°35' 29.033" E	23°49' 16.958" N
94	84°35' 30.000" E	23°49' 16.050" N
95	84°35' 31.172" E	23°49' 14.929" N
96	84°35' 32.114" E	23°49' 14.045" N
97	84°35' 33.149" E	23°49' 13.058" N
98	84°35' 34.207" E	23°49' 12.041" N
99	84°35' 35.040" E	23°49' 11.194" N
100	84°35' 35.876" E	23°49' 10.434" N
101	84°35' 36.668" E	23°49' 9.759" N
102	84°35' 37.223" E	23°49' 9.351" N
103	84°35' 37.651" E	23°49' 9.056" N
104	84°35' 37.994" E	23°49' 8.846" N
105	84°35' 37.774" E	23°49' 8.726" N
106	84°35' 36.585" E	23°49' 8.100" N
107	84°35' 35.333" E	23°49' 7.420" N
108	84°35' 30.144" E	23°49' 4.636" N
109	84°35' 27.610" E	23°49' 3.471" N
110	84°35' 26.556" E	23°49' 2.937" N
111	84°35' 26.083" E	23°49' 2.697" N
112	84°35' 24.076" E	23°49' 1.673" N
113	84°35' 21.715" E	23°49' 0.468" N
114	84°35' 16.394" E	23°48' 57.736" N
115	84°35' 16.261" E	23°48' 57.669" N
116	84°35' 15.212" E	23°48' 57.139" N
117	84°35' 13.177" E	23°48' 56.120" N
118	84°35' 13.066" E	23°48' 56.061" N
119	84°35' 11.597" E	23°48' 55.273" N
120	84°35' 10.783" E	23°48' 54.817" N
121	84°35' 9.768" E	23°48' 54.204" N
122	84°35' 8.586" E	23°48' 53.514" N
123	84°35' 7.906" E	23°48' 53.138" N
124	84°35' 6.875" E	23°48' 52.491" N
125	84°35' 5.967" E	23°48' 51.874" N
126	84°35' 4.703" E	23°48' 51.107" N
127	84°35' 3.538" E	23°48' 50.305" N
128	84°35' 2.931" E	23°48' 49.918" N
129	84°35' 1.612" E	23°48' 49.041" N
130	84°35' 0.965" E	23°48' 48.616" N
131	84°35' 0.154" E	23°48' 48.087" N
132	84°34' 59.707" E	23°48' 47.804" N
133	84°34' 58.936" E	23°48' 47.267" N
134	84°34' 58.301" E	23°48' 46.828" N

135	84°34' 57.720" E	23°48' 46.581" N
136	84°34' 57.499" E	23°48' 46.439" N
137	84°34' 56.254" E	23°48' 45.645" N
138	84°34' 54.342" E	23°48' 44.363" N
139	84°34' 51.601" E	23°48' 42.431" N
140	84°34' 50.093" E	23°48' 41.327" N
141	84°34' 48.264" E	23°48' 39.936" N
142	84°34' 47.030" E	23°48' 38.977" N
143	84°34' 44.878" E	23°48' 37.209" N
144	84°34' 43.261" E	23°48' 35.749" N
145	84°34' 41.562" E	23°48' 34.187" N
146	84°34' 40.417" E	23°48' 33.063" N
147	84°34' 38.937" E	23°48' 31.439" N
148	84°34' 37.978" E	23°48' 30.472" N
149	84°34' 36.456" E	23°48' 29.068" N
150	84°34' 35.401" E	23°48' 28.156" N
151	84°34' 34.318" E	23°48' 27.306" N
152	84°34' 33.400" E	23°48' 26.649" N
153	84°34' 32.639" E	23°48' 26.196" N
154	84°34' 31.817" E	23°48' 25.785" N
155	84°34' 30.816" E	23°48' 25.360" N
156	84°34' 30.001" E	23°48' 25.011" N
157	84°34' 29.089" E	23°48' 24.565" N
158	84°34' 27.054" E	23°48' 23.674" N
159	84°34' 26.959" E	23°48' 23.859" N
160	84°34' 25.759" E	23°48' 26.196" N
161	84°34' 24.937" E	23°48' 27.855" N
162	84°34' 23.991" E	23°48' 29.746" N
163	84°34' 23.367" E	23°48' 30.986" N
164	84°34' 22.620" E	23°48' 32.474" N
165	84°34' 22.010" E	23°48' 33.707" N
166	84°34' 21.117" E	23°48' 35.483" N
167	84°34' 20.480" E	23°48' 36.760" N
168	84°34' 20.062" E	23°48' 37.623" N
169	84°34' 19.494" E	23°48' 38.761" N
170	84°34' 18.888" E	23°48' 39.960" N
171	84°34' 17.999" E	23°48' 41.693" N
172	84°34' 16.820" E	23°48' 44.085" N
173	84°34' 15.106" E	23°48' 47.498" N
174	84°34' 14.904" E	23°48' 47.881" N
175	84°34' 14.427" E	23°48' 48.819" N
176	84°34' 13.386" E	23°48' 50.914" N

177	84°34' 12.386" E	23°48' 52.864" N
178	84°34' 8.754" E	23°49' 0.002" N
179	84°34' 5.978" E	23°49' 5.527" N
180	84°34' 4.578" E	23°49' 8.290" N
181	84°34' 3.524" E	23°49' 10.230" N
182	84°34' 2.825" E	23°49' 11.644" N
183	84°34' 2.290" E	23°49' 12.698" N
184	84°34' 1.651" E	23°49' 13.906" N
185	84°34' 1.095" E	23°49' 15.019" N
186	84°34' 1.287" E	23°49' 15.494" N

Working Details:

1	Mineable Reserve (Mte)	:	170.838
2	OB (Mcum)	:	280 Mcum
3	Stripping Ratio (cum/te)	:	2.15
4	Life (Years)	:	30 years
5	Dip of seams (Degree)	:	3 Degree -15 Degree
6	Strike Length (km)	:	3.13
7	Maximum depth (m)	:	235
8	Seams Considered	:	12 no. of seams (IT,II, III B, III M, III T, IV B, IV T, VB, VT, VII C, VII B, VII T)
9	Minimum Seam Thickness (m)	:	1.2
10	Maximum Seam Thickness (m)	:	11
11	Grade of Coal	:	F Grade
12	Area of Excavation	:	350 Ha
13	Method of Mining	:	Open cast mining with Shovel-Dumper & Surface Miner)
14	Coal Evacuation	:	Through Kushmahi Siding) Proposed for Biratoli siding which is 12.5 KM from Kushmahi siding and any other suitable siding coming up in near future.

Proposed Calendar Program as per EC:

YEAR	COAL (Mtes)		OB+T.S. (Mm ³)		S.R. (m ³ /te)	
	YRL	PROG	YRL	PROG	YRL	PROG
1 st	1.0	1.0	4.87	4.87	4.87	4.87
2 nd	2.15	3.15	8.6	13.47	4.0	4.27
3 rd	4.0	7.15	12.04	25.51	3.01	3.56
4 th	5.0	12.15	15.0	40.51	3.0	3.33
5 th	6.0	18.15	15	55.51	2.5	3.06

6 th	6.0	24.15	15	70.51	2.5	2.92
7 th	6	30.15	15	85.51	2.5	2.84
8 th	6	36.15	15	100.51	2.5	2.78
9 th	6	42.15	13	113.51	2.17	2.69
10 th	6	48.15	13	126.51	2.17	2.62
11 th	6	54.15	13	139.51	2.17	2.57
12 th	6	60.15	13	152.51	2.17	2.53
13 th	6	66.15	12	164.51	2.0	2.48
14 th	6	72.15	12	176.51	2.0	2.45
15 th	6	78.15	12	188.51	2.0	2.41
16 th	6	84.15	12	200.51	2.0	2.38
17 th	6	90.15	12	212.51	2.0	2.36
18 th	6	96.15	12	224.51	2.0	2.33
19 th	6	102.15	12	236.51	2.0	2.31
20 th	6	108.15	12	248.51	2.0	2.29
21 st	6	114.15	12	260.51	2.0	2.28
22 nd	6	120.15	9	269.51	1.5	2.24
23 rd	5	125.15	6	275.51	1.2	2.20
24 th	3	128.15	3	278.51	1.0	2.17
25 th	2.1	130.55	2	280.51	1.0	0.15
TOTAL	130.25		280.51		2.15	
1. OB-Over Burden						
2. TS-Top Soil						
3. SR-Stripping Ratio						
Source: Approved Mining Plan						

PLOT DETAILS:

Village	Khata No & Plot No	
Tubed, Mangra, Dihi, Ambajharan, Dhobiajharan, Nawari	Khata No	Plot No
	Mangra	Mangra
	CS: 25, 21, 1, 16, 4, 9, 8, 5, 2. RS: 6, 33, 35, 36, 49, 52, 55,	CS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21,

	56, 57, 59, 60, 69, 71, 80, 86, 93, 108, 116, 117. Tubed CS: 23, 7, 13, 2, 30, 12, 5, 22, 27, 1, 9, 21, 15, 15, 30, 16, 17, 8, 26, 19, 25, 31, 6, 14, 10, 24, 18, 3, 29, 11. RS: 1, 5, 6, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 103, 24, 28, 29, 30, 31, 32, 34, 39, 41, 46, 49, 51, 59, 60, 61, 63, 64, 65, 70, 71, 72, 73, 74, 75, 76, 82, 86, 87, 89, 90, 91, 92, 96, 97, 102. Dihi CS: 30, 46, 91, 1, 83. RS: 11, 24, 47, 79, 87, 122, 131, 228. Ambajharan CS: 33, 26, 2, 27, 7, 56, 19, 10, 3, 35, 49, 25, 31, 32, 23, 11, 12, 45, 46, 39, 38, 15, 16, 13, 51, 50, 17, 30, 5, 9, 28, 44, 53, 55, 1, 47, 37, 57. RS: 8, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 41, 44, 45, 46, 47, 48, 49, 52, 54, 55, 56, 57. Dhobiajharan CS: 3, 21, 31, 43, 24, 25, 28,	22, 26, 27, 29, 76, 77, 80, 81, 82, 83, 95, 96, 474, 475, 13, 76, 3, 13, 3, 6, 19. RS: 4, 7, 8, 3, 26, 27, 1, 2, 5, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, 25, 28, 29, 30, 35, 36, 39, 48, 52, 53, 54, 22, 33, 34, 37, 38, 42, 32, 41, 44, 40, 43, 46, 96, 97, 98, 100, 102, 44/1569, 47, 49, 50, 51, 92, 93, 94, 95, 88, 90, 91, 55, 56, 58, 59, 84, 57, 60, 61, 63, 74, 83, 85, 86, 87, 89, 62, 68, 71, 65, 66, 67, 72, 73, 75, 76, 145, 70, 77, 78, 137, 80, 81, 79, 131, 82, 130, 132, 133, 134, 127, 128, 104, 306, 307, 308, 309, 311, 312, 315, 313, 314, 310, 333, 337, 356, 359, 347, 348, 349, 350, 354, 355, 357, 358, 360, 361, 362, 164, 166, 154, 155, 156, 157, 162, 163, 170, 165, 158, 159, 167, 168, 169, 160, 161, 545, 546, 548, 549, 550, 547, 556, 558, 557, 591, 592, 593, 594, 595, 599, 600, 601, 618, 336, 339, 340, 341, 342, 343, 344, 345, 346, 351, 352, 353, 338, 363, 148, 150, 151, 152, 153, 64, 45, 101. Tubed CS : 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 56, 269, 292, 293, 298, 300, 301, 302, 304, 305, 307, 308, 309, 310, 313, 315, 316, 317, 318, 319, 320, 323, 324, 325, 326, 327, 330, 332, 333, 335, 336, 341, 342, 343, 344, 347, 349, 350, 352, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 365, 366, 368, 369, 370, 373, 374, 375, 376, 377, 378, 380, 381, 382, 383, 384, 385, 386, 387, 388,
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Land

Land is acquired under Nationalization and CB Act vide SO notification S.O.3238(E) dated 2nd July 2018

Land Type Breakup as per EC:

SN	Particular	Area (in Ha)
1	Forest Land	162.39 For which diversion of 162.394 Ha of forest land (54.365 Ha protected forest land and 108.029 ha Jungle – Jhari land) has been obtained from MoEF&CC, Govt. of India vide F.No. 8-23/2019-FC, dated 28 th March, 2022 (Stage II)
2	Government Land	62.37
3	Private Land	235.24
	Total Project Area	460

Land Use During Mining as per EC:

S. No.	Particulars	Area (Ha)
1	Agricultural Land	230
2	Forest Land	162.4
3	Waste Land	39
4	Grazing Land	-
5	Surface Water Bodies	22
6	Settlements	1
7	Other (Specify)	-
8	Old Excavation Area (East Quarry)	-
9	Old Excavation Area (West Quarry)	-
10	Old OB Dumps	-
11	Roads & Mine Infrastructure	5.6
12	R & R Colony	-
13	Staff Colony	-
14	Green Belt	-
15	Balance Area	-
Total Project Area		460

Proposed Post Mining Land Use as per EC

S. No.	Land Use	Land Use (ha.)				
		Plantation	Water Body	Public Use	Undisturbed	Total
1	External OB Dump	63	-	-	-	63
2	Top Soil Dump	-	-	-	-	-
3	Excavation	330	12	8	-	350
4	Road	3	-	4	-	7
5	Built-up Area	7	-	3	-	10
6	Green Belt	-	-	-	-	-
7	Undisturbed	-	-	-	-	-
8	Safety Zone/Rationalization	16	-	-	-	16

	Area					
9	Diversion Below River/Nala/Canal	4	10	-	-	14
10	Water Body	-	-	-	-	-
11	Staff Colony	-	-	-	-	-
Total		423	22	15	-	460

Total EIA/EMP Expenditure:

BUDGET FOR ENVIRONMENTAL MANAGEMENT ACTIVITES TUBED COAL MINE				
	ITEM	Qty	Cost/unit	Total Cost
1	Water Sprinkler Mobile	6	2500000	15000000
2	Water Sprinkler Fixed type	300 mtr		1000000
3	Grader	2	7500000	15000000
4	SM(Surface Minor)	2	120000000	240000000
5	Fog Mist Cannon	6	300000	1800000
6	Filters	25	400000	10000000
7	Dust arrestor in drill	3	250000	750000
8	Compactor	1	4000000	4000000
9	Fire Extinguisher	20	10000	200000
10	AFDSS	20	100000	2000000
11	PPE	500	40000	20000000
12	CCTV	20	25000	500000
13	Environmental Monitoring/ Air Pollution control	2	1644000	8220000
14	STP for domestic (canteen & sanitation)	1	3000000	3000000
15	Effluents (ETP around mine discharge water 100 m3/hour)	1	5000000	5000000
16	(Equipments and ,First add Kit, IMEetc)	600	2000	1200000
17	Ambulance	2	1000000	2000000
18	Medicine	400	100	40000
19	Water Tanker cost for plantation	2	1200000	2400000

20	Excavator for digging Pits	2	1200000	2400000
21	Tractor, harrow and trolley for ploughing, Transporting from Nursery	3	1500000	4500000
22	Preparation and stabilization of Internal Dump, Rehandling of Top-soil and backfilling (1 Rs./tonne)	2	6000000	12000000
23	Wild Life management and conservation plan	1	2500000	2500000
24	Rain water harvesting structures	30	50000	1500000
25	Construction of toilets for workers	150	50000	7500000
26	Hire Agency for HIV/AIDs and Stakeholder Environmental Awareness	15000	500	750000
27	Proponent HSE Cell Staff Expenses			
28	Third Party EMP Monitoring and environmental audit (10% of EMP Cost)	10	450000	4500000
				378770000

Year wise details of greenbelt and plantation since inception of mine as per below

Year	Area (Ha)	No of plants (No)	Survival rate	Plant species	Cost/Expenditure (Rs)
2022-23	0.3	1600	60%	Mixed Local Species	248000
2023-24	1.6	8551(2000 fresh Plantation & 6551 Translocation)	60%	Mixed Local Species	43375684
2024-25	0.4	2000	80%	Mixed Local Species	310000
2025-26 31 Dec	2.6	4828 (2800 in OB dump)	80%	Mixed Local Species (fruit bearing)	441000

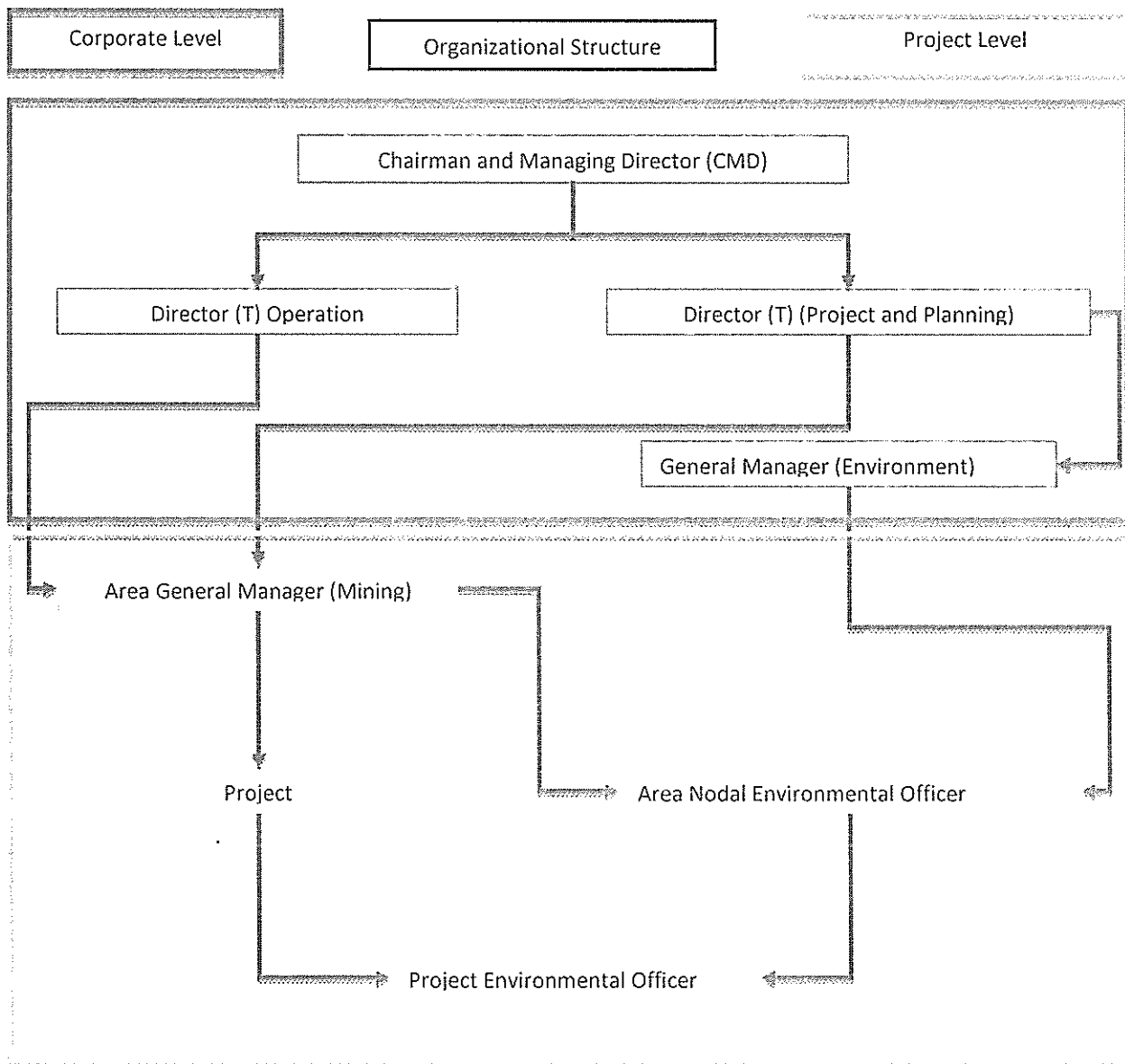
Total – Rs. 4,43,74,684/-

Translocation Cost of 6551 tree - 4,30,65,684.26/- (Rs. Four Crore Thirty Lakh Sixty Fivethousand Six hundred and eighty four)

In 2023-24 the cost of 2000 sapling plantation – 43375684 -4,30,65,684/- = Rs.3,10,000

Environmental Cell & Organization Chart:

The organizational structure for environmental management operates at two levels: Corporate Level (policy formulation and strategic oversight) and Project Level (implementation and compliance). At the corporate level, the CMD, Directors (Tech.), and General Manager (Environment) provide oversight to ensure regulatory adherence. The Project Level, led by the Area General Manager (Mining), includes Project Officers and Environmental Officers responsible for on-site execution. This structure enables effective coordination, compliance with environmental regulations, and sustainable washery practices. An organization chart showing the hierarchy is submitted below:



Amendment being sought

Necessity for Realignment and Integrated Corridor

The originally proposed rail alignment from Demu to Tubed was found unfeasible due to severe surface constraints, including Reserved Forest areas, educational institutions, and

various water bodies. Furthermore, the original track was found to be overlying coal-bearing land, which would have resulted in the sterilization of national resources.

1. To resolve this, East Central Railway (ECR) adopted an integrated approach for a common coal corridor. DVC's connectivity will now be achieved via a **18.70 KM** line taking off from the Banhardih station (currently being developed by PVUNL). This path includes a necessary realignment at the Rajbar Block of TVNL near the southern boundary of Tubed to avoid the Rajbar ABC mine, for which the Ministry of Coal denied an NOC.
- **Technical Upgrades for Increased Traffic**
 - Following the multi-stakeholder meeting on 06.11.2025, the Railways have recommended that the connecting line from Banhardih to DVC-Tubed be constructed as a **Double Line** instead of a single line. This is critical to handle the projected traffic increase from 18 MTPA to 42 MTPA across the integrated network. DVC has formally consented to execute this work on a deposit basis.

Project Milestones and Timeline

1. The revised project schedule is dictated by the following milestones:
 - **DPR Finalization:** The DPR for the track length of **18.70 KM** Banahardih to Tubed Coal Mine has been prepared by ECR Dhanbad in two volume which is attached as a hyper link [Banardih Rajbhar Tubed DPR Vol I.pdf&Banardih Rajbhar Tubed DPR Vol II.pdf](#). Due to some change in alignment at Rajbhar Coal block adjacent to Tubed Coal Block, the submission of the **Detailed Project Report (DPR)** is being recalibrated due to the following critical technical developments:
 - **Capacity Upgrade:** Following the multi-stakeholder directive on **06.11.2025 & 11.02 2026** , the project scope has transitioned from a single-line to a **Double Line** track to support a traffic surge from **18 MTPA to 42 MTPA**.
 - **Resource Preservation:** A strategic realignment at **Rajbar Block** is currently being processed to avoid the **sterilization of national coal reserves** and the **Rajbar ABC mine**.
 - **Technical Integration:** ECR is judiciously finalizing the **18.70 KM** connection from **Banhardih station** to ensure the new double-line infrastructure does not block future mining potential.
 - **Current Status:** As these major design changes—the **Double Line** and **Rajbar realignment**—are still under active consideration and processing, the DPR is yet to be finalized to ensure long-term operational viability.

- **Pre-Construction:** Land acquisition is being processed for the revised **double-line** section from **Banhardih to Tubed**. This expanded requirement is essential to accommodate increased traffic capacity and the strategic **Rajbar** realignment, ensuring no coal reserves are blocked.
- **Construction Phase:** The track laying is estimated to take 36 months (D+36) from the date of the award of the tender after finalization of DPR which is underway.
- **Commissioning:** Readiness for coal dispatch from the mine-end siding is now projected for the mid of FY 2029-2030.

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Land has been acquired under Nationalisation and CB Act vide notification no. S.O.3238(E) dated 2 nd July 2018.
2	CO	:	The CO, Latehar vide letter no. 33, dated 10.01.2026 has mentioned the plot no. of the project is recorded as "Jungle-Jhari" in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	Deputy Director, Palamau Tiger Project, South Division, Medininagar vide letter no. 72, dated 06.02.2026 certified that the said project is outside Eco Sensitive Zone of Palamau Tiger Reserve.
4	DFO Territorial	:	DFO, Latehar Forest Division vide letter no. 72, dated 08.01.2026 certified that the distance of reserved / protected forest is Zero (0) meter from proposed project site.
5	Forest clearance	:	i. Diversion of 162.394 Ha of forest land (54.365 Ha protected forest land and 108.029 ha Jungle – Jhari land) issued by MoEF&CC, Govt. of India vide F.No. 8-23/2019-FC, dated 13th November, 2019. ii. Diversion of 162.394 Ha of forest land (54.365 Ha protected forest land and 108.029 ha Jungle – Jhari land) issued by MoEF&CC, Govt. of India vide F.No. 8-23/2019-FC, dated 28th March, 2022 (Stage II).
6	Previous EC	:	i. Previous EC was granted by MoEF&CC, Govt. of India vide letter no. J-11015/54/2017-IA.II (M), dated: 28.04.2020. ii. Amendment EC granted by MoEF&CC, Govt. of India vide letter no. IA-J-11015/54/2017-IA-II(M) Dated: 30.08.2023.

7	Consent to Establish (CTE)	:	CTE granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-8184118/2021/249, dated 28.09.2021.
8	Consent to Operate (CTO)	:	i. CTO granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-17814220/2024/736, dated 19.04.2024 valid up to 31.03.2025. ii. CTO granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-20628933/2025/626, dated 28.03.2025 valid up to 31.03.2026.
9	Mine Plan Approval	:	Mining Plan approved by Ministry of Coal, Govt. of India vide letter No. 13016/19/2009-CA-I dated 12.10.2009 & Mine Closure Plan vide Letter No. 34011-03-2011-CPAM dated 10.08.2011
10	NOC from CGWA	:	NOC for Ground Water Abstraction vide NOC no NOC/MIN/JH/2025/7361/R-1/1 dated 03.07.2025 valid up to 13.08.2027.

Based on the presentation made and information provided, the Committee decided that the proposal for Tubed Coal Mine Project of M/s Damodar Valley Corporation, Village : Tubed, Mangra, Dihi, Ambajharan, Dhobiajharan, Nawari, Tehsil : Latehar, Distt. : Latehar, Jharkhand (460.00 Ha) is recommended for grant of amended EC. All other terms and conditions of the earlier EC letter no. J-11015/54/2017-IA.II (M), dated: 28.04.2020 & amendment EC letter no. IA-J-11015/54/2017-IA-II(M) Dated: 30.08.2023 shall remain the same along with following specific conditions :

- I. The specific condition no. xv "No transportation of coal shall be carried by road after commission of proposed railway siding near the coal mine w.e.f. 27.04.2026" is being extended by further six month i.e. up to 26.10.2026.
- II. The project authority shall ensure that the final Detailed Project Report (DPR) is completed and approved by the railway authorities and the implementation of the construction of the railway siding has commenced within 26.10.2026. Further extension will be considered only after compliance of this condition.

Day 3 : 19th February, 2026 [Thursday]

A. Letter no. 185, dated 19.01.2026 from Ahmad Belal Anwar, IFS, DFO, Gumla Forest Division related to following projects :

- i. Basia Stone Deposit of Shri Manoj Kumar Jaiswal
- ii. Kasira Stone Mine of Shri Rambilas Sahu
- iii. M/s Home Bricks
- iv. Chauli Stone Mine of Shri Satyanarayan Sahu & Shri Chamru Sahu
- v. Dunduria Stone Deposit – 1 of Shri Durgesh Kumar Mishra
- vi. Asni Stone Mine of M/s RKD Construction Pvt. Ltd.
- vii. Loyenga Stone Deposit of M/s Balaji (Prop. : Shri Dheeraj Kumar)
- viii. Dunduria Stone Mine of Shri Naveen Kumar Singh
- ix. Barisa Stone Deposit of Shri James Tirkey

It is decided in the meeting of SEAC that clarification may be sought from the above project authorities. The Member Secretary, SEAC is authorized to write a letter to the above PAs seeking clarification.

B. A Complain received from Shri Lakhan Kumar, Nawadih, Makluskiganj, Ranchi vide email dated 10.02.2026.

The matter of the complaint letter is not in the purview of SEIAA. The letter is being returned to SEIAA with recommendation to close the matter.

C. A Complain received from bhaarat414@gmail.com vide email dated 20.01.2026.

It is decided in the meeting of SEAC that clarification may be sought from the above project authority. The Member Secretary, SEAC is authorized to write a letter to the above PAs seeking clarification and details of the violation of the EC conditions.



D. A Complain received from Ajaj Ahmed, Giridih, Jharkhand vide email dated 09.01.2026.

It is decided in the meeting of SEAC that clarification may be sought from the above project authority. The Member Secretary, SEAC is authorized to write a letter to the above PAs seeking clarification and details of the violation of the EC conditions.

E. A Complain received from Shri Panchanand Ray, Social Activist vide letter dated 15.01.2026.

It is decided in the meeting of SEAC that clarification may be sought from the above project authority. The Member Secretary, SEAC is authorized to write a letter to the above PAs seeking clarification and details of the violation of the EC conditions.

F. A Complain received from Environmentalist vide letter dated 11.05.2024.

The letter is anonymous and unsigned. Further it is to be stated that the EC is granted on the basis of the Lol issued by Deputy Commissioner / District Mining Officer of the concerned District.

The matter of the complaint letter is not in the purview of SEIAA. The letter is being returned to SEIAA with recommendation to close the matter.

G. A Complain received from letter dated 01.11.2024.

The letter is anonymous. Further it is to be stated that the EC is granted on the basis of the Lol issued by Deputy Commissioner / District Mining Officer of the concerned District and the approved mine plan.

The matter of the complaint letter is not in the purview of SEIAA. The letter is being returned to SEIAA with recommendation to close the matter.







H. A Complain received from Shri Kamla Prasad Singh, Jhumritilaiya, Koderma vide letter dated 30.10.2024.

The allegation in the letter has no basis and hence no action is mandated by SEIAA / SEAC.
The letter is being returned to SEIAA with recommendation to close the matter.

I. Consideration of proposals :

1. Gutti Stone Deposit of M/s Swastik Mining Agency (Partner : Shri Uttam Kumar Singh & Others), Village : Gutti, Tehsil : Taljhari, Distt. : Sahibganj, Jharkhand (2.023 Ha).
(Proposal no.: SIA/JH/MIN/ 566730 /2026)

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

This is a new project which has been taken for appraisal on 19.02.2026.

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

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity –77778 Cum per year or 210002 Tonnes per year

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: GUTI STONE DEPOSIT
2	Lessee:	: M/s Swastik Mining Agency Partner- Uttam Kumar Singh & Others
3	Lessee Address	: AT- GUDRAGHAT, P. O+P.S - RAJMAHAL, DIST- SAHIBGANJ
4	Lease Area	: 2.023 Ha. 5.00 Acre
5	Type of Land	: Non-Forest Raiyati Land
6	Project Cost	: Capital : Rs. 21,68,000.00
7	EMP Budget	: Capital : Rs. 6,31,300.00 Recurring : Rs. 7,67,230.00 per year
8	New or Expansion	: New
9	Mineable Reserves	: 6,42,432 Cum 1734566 Tonnes
10	Mine Life	: 10 Years
11	Man power	: 19
12	Water Requirement	: 17.43 KLD

13	Water Source	:	By authorised hired water tankers
14	DG Set / power	:	-
15	Crusher	:	No crusher
16	Nearest Water Body	:	Ganga (12.5 km)
17	Nearest Habitation	:	800m
18	Nearest Rail Station	:	Kaliyan Chak Railway Station (6 Km)
19	Nearest Air Port	:	Deoghar Airport (117.08 Km)
20	Nearest Forest	:	More than 250 m as per DFO certificate
21	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 16.5 KM from the nearest Eco Sensitive Zone of Udhwa Bird Sanctuary .
22	Road & Highways	:	SH-18 Sahibganj-Dumka Road (6.5 Km)
23	Approach Road	:	At a distance of 350 meter

CO-ORDINATES

Pillar ID	Latitude	Longitude
1	87° 40' 49.2300" N	25° 01' 32.2722" E
2	87° 40' 50.7868" N	25° 01' 29.7869" E
3	87° 40' 47.7811" N	25° 01' 27.2957" E
4	87° 40' 45.9822" N	25° 01' 24.9960" E
5	87° 40' 42.6986" N	25° 01' 27.1499" E
6	87° 40' 44.7163" N	25° 01' 28.4076" E
7	87° 40' 45.4491" N	25° 01' 29.3430" E

LAND DETAILS

Khata no.	Plot no.
04	20 (P)
01	21 (P)
5	22 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Sahibganj vide letter no. 2075/M, dated 22.12.2025.
2	CO	:	The CO, Taljhari vide letter no. 616, dated 14.08.2025 has

		mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyar & Register II.
3	DMO Cluster	: DMO, Sahibganj vide memo no. 218/M, dated 20.01.2026 certified that no other mining lease area exists within 500 meters radius from proposed project site.
4	DFO Wild Life	: DFO – cum- Incharge Wildlife Sanctuary, Udhwa (Sahibganj) vide letter no. 2712, dated 15.09.2025 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Bird Sanctuary.
5	DFO Territorial	: Divisional Forest Officer, Sahibganj Forest Division vide letter no. 2711, dated 15.09.2025 certified that the distance of reserved / protected forest is 257 meters from proposed project site.
6	DSR	: The DMO, Sahibganj has certified vide memo no. 219/M, dated 20.01.2026 that this project is mentioned in approved DSR of Sahibganj District as a potential area (Page no. 193).
7	Gram Sabha	: Gram Sabha conducted on 07.08.2025.
8	Grid certificate	: DMO, Sahibganj vide memo no. 2024/M, dated 09.12.2025 certified that said project falls under grid no. 66 and production is within the over all permissible production limit. The DMO also stated that this certificate is issued in the light of order passed by Hon'ble NGT on 22.12.2021 in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019. It also states this certificate is issued in compliance of report of Expert Committee.
9	Mine Plan Approval	: Approved by DMO, Sahibganj vide Memo No. 217/M, dated 20.01.2026.
10	Qualified Person	: Shri Vidya Bhushan Mishra was present in the meeting and affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	: Semi-mechanized "OTFM" Method
2	Quarry Area	: 1.567 Ha.
3	Waste Generation	: 46152 cum
4	Stripping Ratio	: 1:0.02
5	Working Days	: 300
6	Benches: size & No	: 6m to 6m and 8 in numbers
7	Elevation of Mine	: 219 m AMSL to 208 m AMSL
8	Ground Level Elevation	: 208 m AMSL
9	Ultimate Working	: 170 m AMSL

	Depth		
10	Water Table	:	70 m AMSL
11	Topography of Mine	:	Undulating Hillocks
12	Explosive Requirement	:	70 kg/day
13	Diesel/Fuel requirement	:	420 litre/day

Production Details

Year	Production of stone in Cum	Production of stone in Tonnes	Overburden in cum	Intercalated waste in Cum	Total Waste in Cum
1st Year	61074	164899	23744	3214	26958
2nd Year	64053	172943	4480	3371	7851
3rd Year	67192	181417	0	3536	3536
4th Year	70543	190467	0	3713	3713
5th Year	77778	210002	0	4094	4094
Total	340640	919727	28224	17928	46152

Land Use

Land Utilization	Existing Land Use (Ha)	At the End of Plan Period (Ha)	At Conceptual Period (Ha)
Quarry	NIL	0.990	1.567 (0.165 ha backfilled, 1.074 ha water reservoir, 0.328 ha dead benches)
Waste Dump	NIL	0.328	NIL (comes under quarry)
Road	NIL	0.006	NIL (comes under quarry)
Crusher	NIL	NIL	NIL
Safety Zone Plantation	NIL	0.456	0.456
Total	0.000	1.780	2.023
Unused Area	2.023	0.243	0.000

Total Lease Area	—	—	2.023
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ENVIRONMENT MANAGEMENT

Green Belt Development

Plantation				
Location	Area (Ha.) or Length (m)	No. of tree	Calculation	Timeline
Safety Zone	0.456	730	1600 tree per hectare	1st Year
Approach Road	350.000	700	2m X 2m spacing	1st year
Dead Bench	0.328	525	1600 tree per hectare	End of Mine
Backfilled area (level upto surface)	0.165	264	1600 tree per hectare	End of Mine
TOTAL		2219.00		
Species: Neem, Peepal, Arjun, Ashoka, Gulmohar, Banyan, Bamboo: - Bombas, Nutans, Toolda, Strictus & other Native Species				

- As per MoEF&CC OM No. F.No. IA3-22/3/2024-IA.III dated 24.07.2024, 10% of the proposed green belt shall be developed under the “Ek Ped Maa Ke Naam” plantation campaign.
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- Plantation on dead benches and on backfilled up area would be done during mine closure phase cost for such plantation is included in budget for mine closure.

Cost Estimates

The mining plan for the project has estimated the requirement of equipments needed for mining operations. The capital cost has been estimated on basis of this provision. Estimated capital cost on plants & machineries are given below :

Budgetary Provision (in Lakhs) of Project Cost				
Particulars			Capital	Recurring
Land			0.00	124973.35
Infrastructure			700000.00	0.00
Mining Equipment			0.00	9200000.00
Equipment	Quantity	Rent per year		
Dumper	3	2000000		
Compressor	1	1000000		

Water Sprinkler	1	600000		
Rock Breaker	1	800000		
Excavator	1	800000		
Water Facility for Domestic Purpose "0.76" KLD (Annual Water Demand "228"KL @4L per Tanker, total number of tanker required ("57") and per tanker cost @Rs. 500)		0.00	28500.00	
Statutory Clearances		500000.00	0.00	
Mine Closure Cost for Plantation of "789" number of tree @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance		236700.00	0.00	
Mine Closure Cost for fencing around mine		100000.00	0.00	
Environment Management Plan (EMP) Cost		631300.00	767230.00	
Total		2168000.00	10120703.35	

Environment Management Budget

Budgetary Provision (in Lakhs) of Environment Management Plan (EMP)		
Particulars	Capital	Recurring
Plantation of "1430" number of trees @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance	429000.00	71500.00
Water Facility for Horticulture "8.58" KLD & Dust Suppression "8.092" KLD (Annual Water Demand "5001.6"KL @4L per Tanker, total number of tanker required ("1251") and per tanker cost @Rs. 500)	0.00	625500.00
Garland Drain & Desiltation Pond	202300.00	20230.00
Environment Monitoring & Compliance	0.00	50000.00
Total	631300.00	767230.00

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

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

	texture, water holding capacity, etc.		
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Environment Management Practices to be followed:

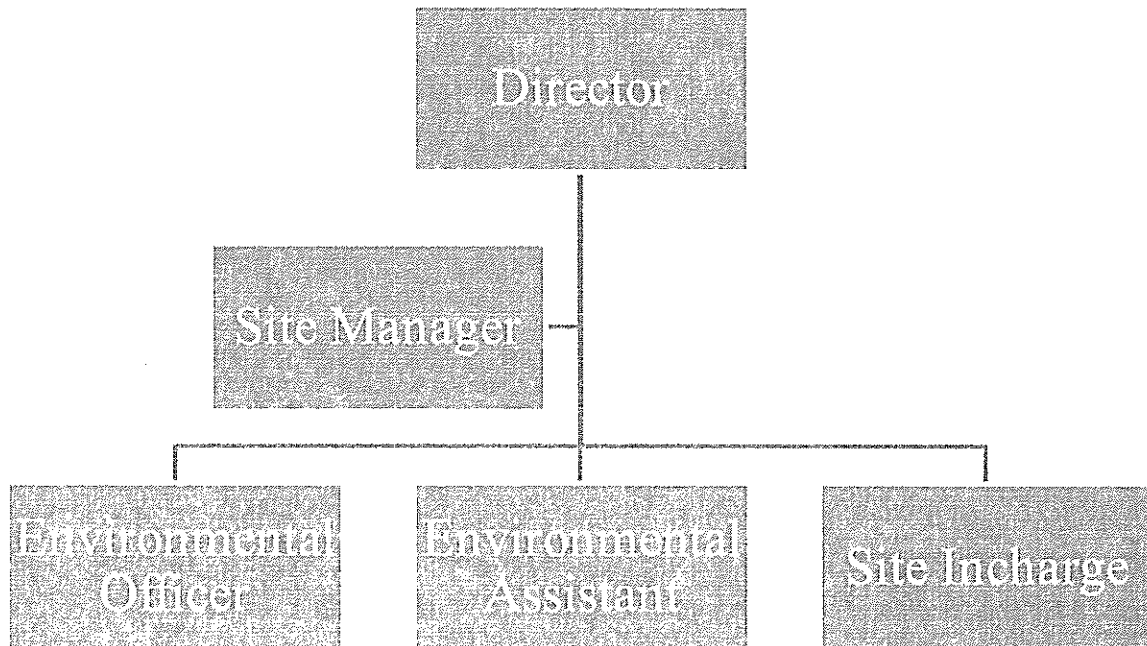
Aspect	Mitigation Measures / Control Measures
Solid Waste Management	During plan period, a total of 46152 cum of solid waste will be generated. This solid waste will be stored in external dump on south side of lease area. At the conceptual stage, all solid waste generated during mining operation will be backfilled.
Air Quality Management	• 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. • 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	• No tree felling will be undertaken without obtaining permission from

management	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. ▪ 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 &	▪ Blast hole geometry shall be properly designed.

Handling of Explosives	▪ 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 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.
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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:

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

- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Gutti Stone Deposit of M/s Swastik Mining Agency (Partner : Shri Uttam Kumar Singh & Others), Village : Gutti, Tehsil : Taljhari, Distt. : Sahibganj, Jharkhand (2.023 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- II. That the Deputy Commissioner, Sahibganj will ensure compliance of the order passed by Hon'ble NGT in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019 in the matter of Syed Arshad Nasar Vs Union of India with Ramchandra Chaurasia Vs State of Jharkhand with Pradeep Kumar Singh Vs State of Jharkhand before grant of mining lease.
- III. 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.
- IV. 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.
- V. 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.

- VI. 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.
- VII. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests .Summary findings of same to be submitted along with 6 monthly compliance.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

2. Guti Stone Deposit of M/s Patnibona Stone Quarry (Partner : Shri Vikram Pratap & Others), Village : Guti, Tehsil : Taljhari, Distt. : Sahibganj, Jharkhand (2.833 Ha).

(Proposal no.: SIA/JH/MIN/ 566776 /2026)

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

This is a new project which has been taken for appraisal on 19.02.2026.

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

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity –103900 Cum per year or 280529 Tonnes per year
Project and Location Details:

Sl	Parameter		Details
1	Project Name	:	GUTI STONE DEPOSIT
2	Lessee:	:	M/s Patnibona Stone Quarry Partner- Vikram Pratap & Others
3	Lessee Address	:	AT- NILKOTHI, P. O+P.S - RAJMAHAL, DIST- SAHIBGANJ.
4	Lease Area	:	2.833 Ha. 7.00 Acre
5	Type of Land	:	Non-Forest Raiyati Land

6	Project Cost	:	Capital : Rs. 27,83,300.00	
7	EMP Budget	:	Capital : Rs. 7,83,700.00	Recurring : Rs. 9,62,230.00 per year
8	New or Expansion	:	New	
9	Mineable Reserves	:	10,36,224 Cum	27,97,805 Tonnes
10	Mine Life	:	10 Years	
11	Man power	:	25	
12	Water Requirement	:	22.34 KLD	
13	Water Source	:	By authorised hired water tankers	
14	DG Set / power	:	-	
15	Crusher	:	No crusher	
16	Nearest Water Body	:	Ganga (13 km)	
17	Nearest Habitation	:	800m	
18	Nearest Rail Station	:	Kaliyan Chak Railway Station (6.5 Km)	
19	Nearest Air Port	:	Not within study area	
20	Nearest Forest	:	More than 250m as per DFO certificate	
21	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 16.6 KM from the nearest Eco Sensitive Zone of Udhwa Bird Sanctuary .	
22	Road & Highways	:	SH-18 Sahibganj-Dumka Road (6 Km)	
23	Approach Road	:	At a distance of 430 meter	

CO-ORDINATES

Pillar ID	Latitude	Longitude
1	25°1' 30.5049" N	87°40' 51.6557" E
2	25°1' 27.7766" N	87°40' 54.9968" E
3	25°1' 25.7703" N	87°40' 52.9758" E
4	25°1' 22.9957" N	87°40' 50.947" E
5	25°1' 23.4045" N	87°40' 50.2739" E
6	25°1' 22.907" N	87°40' 49.0904" E
7	25°1' 24.9427" N	87°40' 46.1851" E

LAND DETAILS

Khata no.	Plot no.
10	19 (P)

05	22 (P)
09	23 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Sahibganj vide letter no. 2076/M, dated 22.12.2025.
2	CO	:	The CO, Taljhari vide letter no. 496, dated 05.07.2025 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyani & Register II.
3	DMO Cluster	:	DMO, Sahibganj vide memo no. 221/M, dated 20.01.2026 certified that no other mining lease area exists within 500 meters radius from proposed project site.
4	DFO Wild Life	:	DFO – cum- Incharge Wildlife Sanctuary, Udhwa (Sahibganj) vide letter no. 2999, dated 25.10.2025 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Bird Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Sahibganj Forest Division vide letter no. 2998, dated 25.10.2025 certified that the distance of reserved / protected forest is 256 meters from proposed project site.
6	DSR	:	The DMO, Sahibganj has certified vide memo no. 220/M, dated 20.01.2026 that this project is mentioned in approved DSR of Sahibganj District as a potential area (Page no. 193).
7	Gram Sabha	:	Gram Sabha conducted on 14.06.2025.
8	Grid certificate	:	DMO, Sahibganj vide memo no. 2025/M, dated 09.12.2025 certified that said project falls under grid no. 66 and production is within the over all permissible production limit. The DMO also stated that this certificate is issued in the light of order passed by Hon'ble NGT on 22.12.2021 in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019. It also states this certificate is issued in compliance of report of Expert Committee.
9	Mine Plan Approval	:	Approved by DMO, Sahibganj vide Memo No. 222/M, dated 20.01.2026.
10	Qualified Person	:	Shri Vidya Bhushan Mishra was present in the meeting and affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Semi-mechanized "OTFM" Method
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2	Quarry Area	:	2.328 Ha.
3	Waste Generation	:	67099 cum
4	Stripping Ratio	:	1:0.02
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m and 15 in numbers
7	Elevation of Mine	:	180 m AMSL to 130 m AMSL
8	Ground Level Elevation	:	130 m AMSL
9	Ultimate Working Depth	:	90 m AMSL
10	Water Table	:	70 m AMSL
11	Topography of Mine	:	Undulating Hillocks
12	Explosive Requirement	:	93.5 kg/day
13	Diesel/Fuel requirement	:	561 litre/day

Production Details

Year	Production of stone in Cum	Production of stone in Tonnes	Overburden in cum	Intercalated waste in Cum	Total Waste in Cum
1st Year	97196	262430	26040	5116	31156
2nd Year	98314	265447	14784	5174	19958
3rd Year	98952	267170	0	5208	5208
4th Year	100867	272341	0	5309	5309
5th Year	103900	280529	0	5468	5468
Total	499229	1347918	40824	26275	67099

Land Use

Land Utilization	Existing Land Use (Ha)	At the End of Plan Period (Ha)	At Conceptual Period (Ha)
Quarry	NIL	1.739	2.328 (0.275 ha backfilled, 0.871 ha water reservoir, 1.182 ha dead benches)
Waste Dump	NIL	0.363	NIL (comes under quarry)
Road	NIL	0.004	NIL (comes under quarry)
Crusher	NIL	0.0	NIL
Safety Zone Plantation	NIL	0.505	0.505
Total	0.000	2.611	2.833

Unused Area	2.833	0.222	0.000
Total Lease Area	—	—	2.833

ENVIRONMENT MANAGEMENT

Green Belt Development

Plantation				
Location	Area (Ha.) or Length (m)	No. of tree	Calculation	Timeline
Safety Zone	0.505	808	1600 tree per hectare	1st Year
Approach Road	430.000	860	2m X 2m spacing	1st year
Dead Bench	1.182	1892	1600 tree per hectare	End of Mine
Backfilled area (level upto surface)	0.275	440	1600 tree per hectare	End of Mine
TOTAL		4000.00		
Species: Neem, Peepal, Arjun, Ashoka, Gulmohar, Banyan, Bamboo: - Bombas, Nutans, Toolda, Strictus & other Native Species				

- As per MoEF&CC OM No. F.No. IA3-22/3/2024-IA.III dated 24.07.2024, 10% of the proposed green belt shall be developed under the “Ek Ped Maa Ke Naam” plantation campaign.
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.
- Plantation on dead benches and on backfilled up area would be done during mine closure phase cost for such plantation is included in budget for mine closure.

Cost Estimates

The mining plan for the project has estimated the requirement of equipments needed for mining operations. The capital cost has been estimated on basis of this provision. Estimated capital cost on plants & machineries are given below :

Budgetary Provision (in Lakhs) of Project Cost				
Particulars			Capital	Recurring
Land			0.00	175012.12
Infrastructure			700000.00	0.00
Mining Equipment			0.00	12000000.00
Equipment	Quantit y	Rent per year		
Dumper	4	2000000		

Compressor	1	1000000		
Water Sprinkler	1	600000		
Rock Breaker	1	800000		
Excavator	2	800000		
Water Facility for Domestic Purpose "1" KLD (Annual Water Demand "300"KL @4L per Tanker, total number of tanker required ("75") and per tanker cost @Rs. 500)			0.00	37500.00
Statutory Clearances			500000.00	0.00
Mine Closure Cost for Plantation of "2332" number of tree @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance			699600.00	0.00
Mine Closure Cost for fencing around mine			100000.00	0.00
Environment Management Plan (EMP) Cost			783700.00	962230.00
Total			2783300.00	13174742.12

Environment Management Budget

Budgetary Provision (in Lakhs) of Environment Management Plan (EMP)		
Particulars	Capital	Recurring
Plantation of "1668" number of trees @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance	500400.00	83400.00
Water Facility for Horticulture "10.008" KLD & Dust Suppression "11.332" KLD (Annual Water Demand "6402"KL @4L per Tanker, total number of tanker required ("1601") and per tanker cost @Rs. 500)	0.00	800500.00
Garland Drain & Desiltation Pond	283300.00	28330.00
Environment Monitoring & Compliance	0.00	50000.00
Total	783700.00	962230.00

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

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

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

Environment Management Practices to be followed:

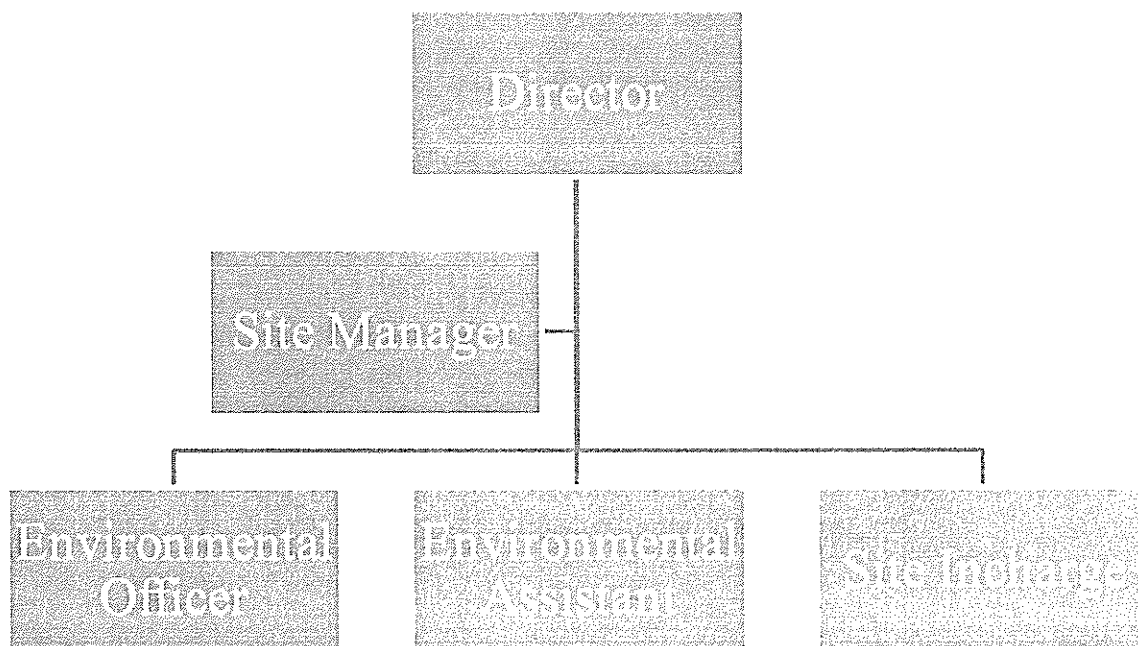
Aspect	Mitigation Measures / Control Measures
Solid Waste Management	During plan period, a total of 67099 cum of solid waste will be generated. This solid waste will be stored in external dump on south side of lease area. At the conceptual stage, all solid waste generated during mining operation will be backfilled.
Air Quality Management	• 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. • 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. ▪ 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 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.
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Organizational Structure of Environment Management Cell:



EMP Cell structure

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

Undertaking submitted affirming:

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

- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Gutti Stone Deposit of M/s Patnibona Stone Quarry (Partner : Shri Vikram Pratap & Others), Village : Gutti, Tehsil : Taljhari, Distt. : Sahibganj, Jharkhand (2.833 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- II. That the Deputy Commissioner, Sahibganj will ensure compliance of the order passed by Hon'ble NGT in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019 in the matter of Syed Arshad Nasar Vs Union of India with Ramchandra Chaurasia Vs State of Jharkhand with Pradeep Kumar Singh Vs State of Jharkhand before grant of mining lease.
- III. 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.
- IV. 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.

- V. 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.
- VI. 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.
- VII. Pre employment Occupational health check up for employees to be done and thereafter at annual interval for PLFT, Audiometry and other required tests. Summary findings of same to be submitted along with 6 monthly compliance.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

3. Binderi Bandarkola Stone Deposit of M/s Jai Baba Basukinath Stone Mining Pvt. Ltd. (Director : Shri Rajeev Choudhary & Others), Village : Binderi Bandarkola, Tehsil : Borio, Distt. : Sahibganj, Jharkhand (2.832 Ha).

(Proposal no.: SIA/JH/MIN/ 567394 /2026)

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

This is a new project which has been taken for appraisal on 19.02.2026.

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

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity –91181 Cum per Year or 255304 Tonnes per Year

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Binderi Bandarkola Stone Deposit

2	Lessee:	:	M/S Jai Baba Basukinath Stone Mining Pvt. Ltd. Director – Sri Rajeev Choudhary & Others	
3	Lessee Address	:	At Village – Purani Sahebganj, P.O. & Thana – Sahebganj, District – Sahebganj, Pin Code – 816109, State – Jharkhand	
4	Lease Area	:	2.832 Ha	7.00Acre
5	Type of Land	:	Non-Forest Raiyati Land	
6	Project Cost	:	Capital: Rs. 3287500.00	
7	EMP Budget	:	Capital: Rs. 1119900.00	Recurring: Rs. 1270270 per year
8	New or Expansion	:	New	
9	Mineable Reserves	:	911407 cum	2551940 Tonnes
10	Mine Life	:	10 Years	
11	Man power	:	46	
12	Water Requirement	:	29.90 KLD	
13	Water Source	:	By authorised hired water tankers	
14	DG Set / power	:	-	
15	Crusher	:	Yes, Mobile crusher	
16	Nearest Water Body	:	Morang Nadi, flowing from North to South direction, is situated near about 1.982 km away in the North-West direction of the area	
17	Nearest Habitation	:	Chhota Bandar Kola Village at a distance of 1.27 Km (East-south)	
18	Nearest Rail Station	:	Kalian Chak Railway Station at a distance of 10.83 Km.	
19	Nearest Air Port	:	Nearest airport Netaji Subhash Chandra Bose International Airport, is about 277.83 km away from the applied area	
20	Nearest Forest	:	Divisional Forest Officer, Sahibganj certified that the distance of reserved / protected forest is more than 265 meter from proposed project site.	
21	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 22.1 KM from the nearest Eco Sensitive Zone of Udhwa Bird Sanctuary .	
22	Road & Highways	:	Nearest National Highway, NH-33 is about 14.58 km	
23	Approach Road	:	At a distance of 1807 metres.	

CO-ORDINATES

PILLAR ID	LATITUDE	LONGITUDE	PILLAR ID	LATITUDE	LONGITUDE
P1	N25° 02' 51.67898995"	E087° 37' 55.01903796"	P11	N25° 02' 57.83120417"	E087° 37' 54.00592211"

P2	N25° 02' 52.16894295"	E087° 37' 54.68673341"	P12	N25° 02' 57.22843301"	E087° 37' 55.24849060"
P3	N25° 02' 52.53767399"	E087° 37' 54.18709385"	P13	N25° 02' 56.62565901"	E087° 37' 56.49105567"
P4	N25° 02' 53.08842420"	E087° 37' 53.50427073"	P14	N25° 02' 56.27895400"	E087° 37' 57.97191005"
P5	N25° 02' 53.50957426"	E087° 37' 53.02192046"	P15	N25° 02' 55.92331563"	E087° 37' 59.89222428"
P6	N25° 02' 53.86167058"	E087° 37' 52.80569436"	P16	N25° 02' 54.43946575"	E087° 37' 59.86977985"
P7	N25° 02' 54.31677295"	E087° 37' 52.73534855"	P17	N25° 02' 52.95561578"	E087° 37' 59.84733568"
P8	N25° 02' 55.01277462"	E087° 37' 52.68243054"	P18	N25° 02' 51.58556032"	E087° 37' 59.82661296"
P9	N25° 02' 55.76313700"	E087° 37' 53.05656954"	P19	N25° 02' 51.61589181"	E087° 37' 58.26610039"
P10	N25° 02' 56.89222651"	E087° 37' 53.61008410"	P20	N25° 02' 51.64744334"	E087° 37' 56.64256935"

LAND DETAILS

Khata no.	Plot no.
30	598 (P) & 599 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Sahibganj vide letter no. 2038/M, dated 13.12.2025.
2	CO	:	The CO, Borio, Sahibganj vide letter no. 814/Ra., dated 14.10.2024 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatyan & Register II.
3	DMO Cluster	:	DMO, Sahibganj vide memo no. 2040/M, dated 13.12.2025 certified that no other mining lease area exists within 500 meters radius from proposed project site.
4	DFO Wild Life	:	DFO – cum- Incharge Wildlife Sanctuary, Udhwa (Sahibganj) vide letter no. 1826, dated 24.06.2025 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Bird Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Sahibganj Forest Division vide letter no. 1825, dated 24.06.2025 certified that the distance of reserved / protected forest is 265 meters from proposed project site.
6	DSR	:	The DMO, Sahibganj has certified vide memo no. 2042/M, dated 13.12.2025 that this project is mentioned in approved DSR of Sahibganj District as a potential area (Page no. 200).
7	Gram Sabha	:	Gram Sabha conducted on 09.10.2024.

8	Grid certificate	:	DMO, Sahibganj vide memo no. 1643/M, dated 02.09.2025 certified that said project falls under grid no. 55 and Hon'ble NGT does not decided the production capacity of that Grid. The DMO also stated that this certificate is issued in the light of order passed by Hon'ble NGT on 22.12.2021 in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019. It also states this certificate is issued in compliance of report of Expert Committee.
9	Mine Plan Approval	:	Approved by DMO, Sahibganj vide Letter No. 256/M, dated 22.01.2026.
10	Qualified Person	:	Shri P.K. Sen through letter dated 17.02.2026 affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Semi-mechanized "OTFM" Method	
2	Quarry Area	:	2.354 Ha.	Life of Mine – 10 years
3	Waste Generation	:	49518 cum	
4	Stripping Ratio	:	1:0.04	
5	Working Days	:	300	
6	Benchs: size & No	:	6m to 6m and 13 in numbers	
7	Elevation of Mine	:	240 m AMSL to 196 m AMSL	
8	Ground Level Elevation	:	196 m AMSL	
9	Ultimate Working Depth	:	160 m AMSL	
10	Water Table	:	125 m AMSL	
11	Topography of Mine	:	Area represents gently sloping land.	
12	Explosive Requirement	:	85 kg/day	
13	Diesel/Fuel requirement	:	511 litre/day	

Production Details

Year	Production of Stone		Intercalated Waste	Removal of Gritty Soil	
	in cum	in tonnes	in cum	in cum	in tonnes
1 st Year	91127	255154	4796	12006	18009
2 nd Year	91134	255175	4797	4278	6417
3 rd Year	91144	255205	4798	4830	7245
4 th Year	91144	255205	4798	4416	6624
5 th Year	91181	255304	4799	000	000
Total	455730	1276043	23988	25530	38295

Land Use

Type of Land	Present Land Use (in Ha)	At the End of Plan Period (In Ha)	At the end of Mine (In Ha)	Conceptual Period (In Ha)		
				Public use	Water body	Plantation
Quarry	Nil	2.212(Including Temporarydumped area0.801 Ha. & 0.188 Ha.)	2.354 (Including backfill 0.630Ha.)	---	0.547	1.807 (Deadbench plantation)
Greenbeltwithi n SafetyBarrier	Nil	0.478	0.478	---	---	0.478
Road	0.008	0.005	Nil(merged with quarry & safety barrier)	---	---	---
Mobile Crusher	Nil	0.030	Nil	---	---	---
Total Area in Use	0.008	2.725	2.832	---	0.547	2.285
Balanced Area unused			Nil	---	---	---
Total Applied Area	2.832	2.832	2.832	2.832		

ENVIRONMENT MANAGEMENT

Green Belt Development

Plantation				
Location	Area (Ha.) or Length (m)	No. of tree	Calculation	Timeline
Safety Zone	0.478	765	1600 tree per hectare	1st Year
Approach Road (m)	1012	2024	2m X 2m spacing	1st year
Dead Bench	1.807	2892	1600 tree per hectare	End of Mine
TOTAL		5681		
Species: Neem, Peepal, Arjun, Ashoka, Gulmohar, Banyan, Bamboo: - Bombas, Nutans, Toolda, Strictus & other Native Species				

- As per MoEF&CC OM No. F.No. IA3-22/3/2024-IA.III dated 24.07.2024, 10% of the proposed green belt shall be developed under the "Ek Ped Maa Ke Naam" plantation campaign.
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be

undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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

Project Cost

Budgetary Provision (in Lakhs) of Project Cost				
Particulars			Capital	Recurring
Land			0.00	174950.34
Infrastructure			700000.00	0.00
Mining Equipment			0.00	21800000.00
Equipment	Quantity	Rent per year		
Tippers	5	2000000		
Wagon Drill	2	1000000		
Jack Hammer	2	600000		
Compressor	2	1000000		
Water Sprinkler	3	600000		
Rock Breaker	3	800000		
Hydraulic Excavator	3	800000		
Water Facility for Domestic Purpose "1.84" KLD (Annual Water Demand "552"KL @4L per Tanker, total number of tanker required ("138") and per tanker cost @Rs. 500)			0.00	69000.00
Statutory Clearances			500000.00	0.00
Mine Closure Cost for Plantation of "2892" number of tree @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance			867600.00	0.00
Mine Closure Cost for fencing around mine			100000.00	0.00
Environment Management Plan (EMP) Cost			1119900.00	1270270.00
Total			3287500.00	23314220.34

Environment Management Budget

Budgetary Provision (in Lakhs) of Environment Management Plan (EMP)		
Particulars	Capital	Recurring
Plantation of "2789" number of trees @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance	836700.00	139450.00
Water Facility for Horticulture "16.734" KLD & Dust Suppression "11.328" KLD (Annual Water Demand "8418.6"KL @4L per Tanker, total number of tanker required ("2105") and per tanker cost @Rs. 500)	0.00	1052500.00
Garland Drain & Desiltation Pond	283200.00	28320.00
Environment Monitoring & Compliance	0.00	50000.00
Total	1119900.00	1270270.00

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

S. no	Monitoring Parameters	No. of Locations	Frequency of Monitoring
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2	Water: Surface water sample in the vicinity of the Project area.	2 Surface water 2 Ground water	Six Monthly
3	Noise: Day & Night level Noise Monitoring.	4 stations	Six Monthly
4	Soil: Soil Monitoring, Qualitative and quantitative testing/analysis to check the soil fertility, porosity, texture, water holding capacity, etc.	2 station	Six Monthly

Environment Management Practices to be followed:

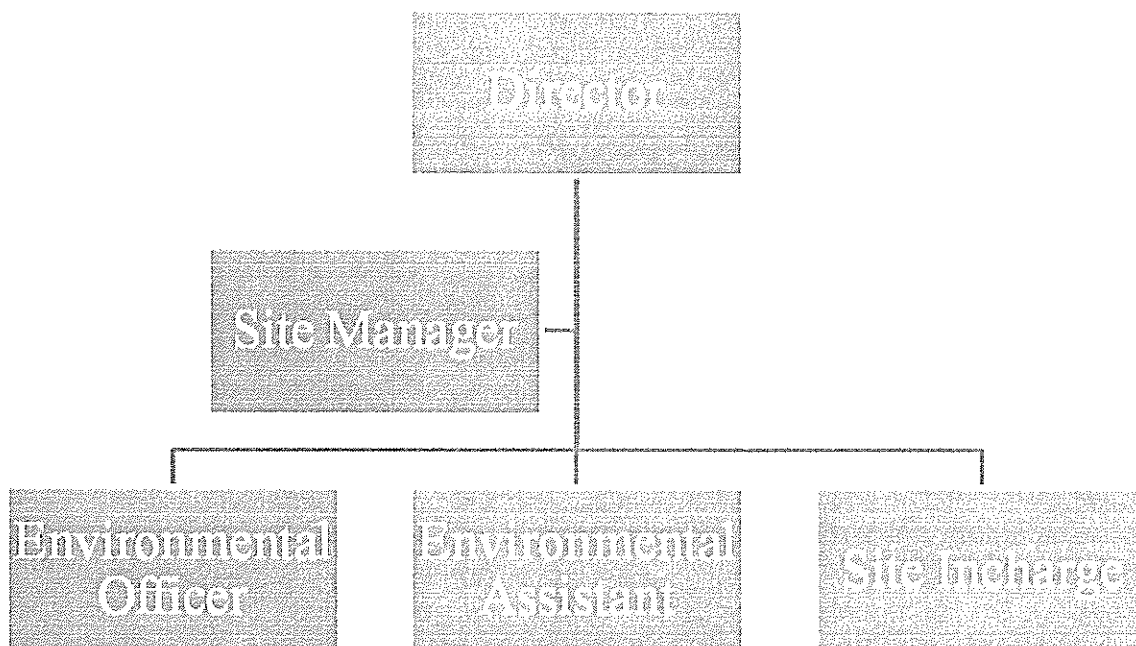
Aspect	Mitigation Measures / Control Measures
Solid Waste Management	During plan period a total 49518 m ² of we solid waste will be generated in 5 years. During this period, solid waste will be stored in an external O.B. dump on S.E. Side. At closure of mine, entire solid waste will be backfilled.
Air 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. • 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. ▪ 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 Explosives	& of	▪ 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.
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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:



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.

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- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District Survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
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Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Binderi Bandarkola Stone Deposit of M/s Jai Baba Basukinath Stone Mining Pvt. Ltd. (Director : Shri Rajeev Choudhary & Others), Village : Binderi Bandarkola, Tehsil : Borio, Distt. : Sahibganj, Jharkhand (2.832 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- II. That the Deputy Commissioner, Sahibganj will ensure compliance of the order passed by Hon'ble NGT in OA No. 23/2017/EZ, O.A. no. 776/2018 and O.A. no. 373/2019 in the matter of Syed Arshad Nasar Vs Union of India with Ramchandra Chaurasia Vs State of Jharkhand with Pradeep Kumar Singh Vs State of Jharkhand before grant of mining lease.
- III. 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.
- IV. 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.
- V. 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.
- VI. 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.

- VII. 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.
- VIII. 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.
- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

4. Chitragaria Stone Deposit of Md. Ansar, Village : Chitragaria, Tehsil : Shikaripara, Distt. : Dumka, Jharkhand (0.91 Ha).

(Proposal no.: SIA/JH/MIN/ 567341 /2026)

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

This is a new project which has been taken for appraisal on 19.02.2026.

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

Application for Terms of Reference (ToR).

ToR Application for: Proposed Capacity –20114 Cum per Year or 54309 Tonnes per Year

Project and Location Details:

Sl	Parameter		Details
1	Project Name	:	Chitragaria Stone Deposit
2	Lessee:	:	Md. Ansar
3	Lessee Address	:	At Village – Nischintapur, Madrasha Para, Ward No. - 02, Rampurhat M, District - Birbhum, State – West Bengal, Pin Code – 731224.
4	Lease Area	:	0.91hectares 2.24acres
5	Type of Land	:	Non-Forest Raiyati Land
6	Project Cost	:	Capital: Rs. 2226200.00
7	EMP Budget	:	Capital: Rs. 729400.00 Recurring: Rs. 781000.00 per year
8	New or Expansion	:	Application for Terms of Reference under (ToR)
9	Mineable	:	100456 cum 271234 Tonnes

	Reserves			
10	Mine Life	:	5 Years	
11	Man power	:	30	
12	Water Requirement	:	17.61 KLD	
13	Water Source	:	By authorised hired water tankers	
14	DG Set / power	:	-	
15	Crusher	:	No	
16	Nearest Water Body	:	Brahmani River, flowing from North-West to North-East direction, is situated nearabout 5.9 km away in the north direction of the area	
17	Nearest Habitation	:	Chitaragaria Village at a distance of 0.776 Km (West-North))	
18	Nearest Rail Station	:	Pinargaria Railway Station at a distance of 3.74Km.	
19	Nearest Air Port	:	Nearest airport Netaji Subhash Chandra Bose International Airport, is about 189.65 km away from the applied area	
20	Nearest Forest	:	Divisional Forest Officer, Dumka certified that the distance of reserved / Notified forest is more than 250 meter from proposed project site.	
21	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 88.67 KM from the nearest Eco Sensitive Zone of Udhwa Bird Sanctuary .	
22	Road & Highways	:	Nearest National Highway, NH-114A is about 2.10 km	
23	Approach Road	:	At a distance of 824 metres.	

CO-ORDINATES

PILLAR ID	LATITUDE	LONGITUDE	PILLAR ID	LATITUDE	LONGITUDE
P1	N24°11'30.117"	E87°37'30.159"	P8	N24°11'26.076"	E87°37'31.648"
P2	N24°11'29.895"	E87°37'31.023"	P9	N24°11'26.348"	E87°37'30.862"
P3	N24°11'31.019"	E87°37'31.358"	P10	N24°11'26.528"	E87°37'30.905"
P4	N24°11'31.134"	E87°37'32.372"	P11	N24°11'27.307"	E87°37'29.521"
P5	N24°11'30.946"	E87°37'33.112"	P12	N24°11'28.286"	E87°37'29.842"
P6	N24°11'29.394"	E87°37'32.676"	P13	N24°11'29.450"	E87°37'30.095"
P7	N24°11'27.749"	E87°37'32.160"			

LAND DETAILS

Khata no.	Plot no.
06	905
02	906
43	907

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Dumka vide letter no. 89/M, dated 16.01.2025.
2	CO	:	The CO, Shikaripara vide letter no. 1068/Ra., dated 04.12.2024 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyon & Register II.
3	DMO Cluster	:	DMO, Dumka vide memo no. 933/M, dated 24.07.2025 certified that 01 other mining lease area (6.90 Acre) and 02 LoI (5.55 Acre & 3.69 Acre) exists within 500 meters radius from proposed project site and total area is 18.38 Acre.
4	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 2129, dated 01.10.2024 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Dumka Forest Division vide letter no. 2267, dated 07.10.2024 certified that the distance of reserved / protected forest is more than 250 meters from proposed project site.
6	DSR	:	This project is part of approved DSR of Dumka District.
7	Gram Sabha	:	Gram Sabha conducted on 14.06.2024.
8	Mine Plan Approval	:	Approved by DMO, Dumka vide Letter No. 52/M, dated 20.01.2026.
9	Qualified Person	:	Shri P.K. Sen through letter dated 17.02.2026 affirmed that the mine plan has been prepared by him.

Working Details

1	Mining Method	:	Semi-mechanized "OTFM" Method
2	Quarry Area	:	0.61 Ha. Life of Mine – 05 years
3	Waste Generation	:	9766 cum
4	Stripping Ratio	:	1:0.04
5	Working Days	:	300

6	Benches: size & No	:	6m to 6m and 6 in numbers
7	Elevation of Mine	:	95 m AMSL to 85 m AMSL
8	Ground Level Elevation	:	85 m AMSL
9	Ultimate Working Depth	:	59 m AMSL
10	Water Table	:	53 m AMSL
11	Topography of Mine	:	Area represents gently sloping land.
12	Explosive Requirement	:	18 kg/day
13	Diesel/Fuel requirement	:	109 litre/day

Production Details

Year	Production of Stone		Intercalated Waste	Removal of Gritty Soil	
	in cum	in tonnes	in cum	in cum	in tonnes
1 st Year	20058	54157	1056	4478	6717
2 nd Year	20090	54241	1057	000	000
3 rd Year	20095	54256	1058	000	000
4 th Year	20114	54309	1059	000	000
5 th Year	20095	54256	1058	000	000
Total	100452	271219	5288	4478	6717

Land Use

Type of Land	Present Land Use (in Ha)	At the End of Plan Period (In Ha)	At the end of Mine (In Ha)	Conceptual Period (In Ha)		
				Public use	Water body	Plantation
Quarry	0.348 (including water logged)	0.61 (Including backfill 0.20 Ha.)	0.61 (Including backfill 0.20 Ha.)	----	0.20	0.41 (Dead bench plantation)
Greenbelt within Safety Barrier	Nil	0.30	0.30	----	----	0.30
Road	0.028	Nil (merged with quarry & safety barrier)	Nil (merged with quarry & safety barrier)	----	----	----
Total Area in Use	0.376	0.91	0.91	----	0.20	0.71
Balanced Area unused	0.534	Nil	Nil	----	----	----
Total Applied	0.910	0.91	0.91	0.91		

Area				
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ENVIRONMENT MANAGEMENT

Green Belt Development

Plantation				
Location	Area (Ha.) or Length (m)	No. of tree	Calculation	Timeline
Safety Zone	0.300	480	1600 tree per hectare	1st Year
Approach Road	824	1648	2m X 2m spacing	1st year
Dead Bench	0.410	656	1600 tree per hectare	End of Mine
TOTAL		2784		
Species: Neem, Peepal, Arjun, Ashoka, Gulmohar, Banyan, Bamboo: - Bombas, Nutans, Toolda, Strictus& other Native Species				

As per MoEF&CC OM No. F.No. IA3-22/3/2024-IA.III dated 24.07.2024, 10% of the proposed green belt shall be developed under the "Ek Ped Maa Ke Naam" plantation campaign.

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

Project Cost

Budgetary Provision (in Lakhs) of Project Cost				
Particulars			Capital	Recurring
Land			0.00	56216.39
Infrastructure			700000.00	0.00
Mining Equipment			0.00	10400000.00
Equipment	Quantity	Rent per year		
Tipper	2	2000000		
Wagon Drill	1	1000000		
Jack Hammer	2	600000		
Compressor	2	1000000		
Water Sprinkler	1	600000		
Rock Breaker	1	800000		
Excavator	1	800000		
Water Facility for Domestic Purpose "1.2" KLD (Annual Water Demand "360"KL @4L per Tanker, total number of tanker required ("90") and per tanker cost @Rs. 500)			0.00	45000.00

Statutory Clearances	500000.00	0.00
Mine Closure Cost for Plantation of "656" number of tree @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance	196800.00	0.00
Mine Closure Cost for fencing around mine	100000.00	0.00
Environment Management Plan (EMP) Cost	729400.00	781000.00
Total	2226200.00	11282216.39

Environment Management Budget

Budgetary Provision (in Lakhs) of Environment Management Plan (EMP)		
Particulars	Capital	Recurring
Plantation of "2128" number of trees @Rs.300 per tree for plant & @Rs. 50 per tree for maintenance	638400.00	106400.00
Water Facility for Horticulture "12.768" KLD & Dust Suppression "3.64" KLD (Annual Water Demand "4922.4"KL @4L per Tanker, total number of tanker required ("1231") and per tanker cost @Rs. 500)	0.00	615500.00
Garland Drain & Desiltation Pond	91000.00	9100.00
Environment Monitoring & Compliance	0.00	50000.00
Total	729400.00	781000.00

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

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

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
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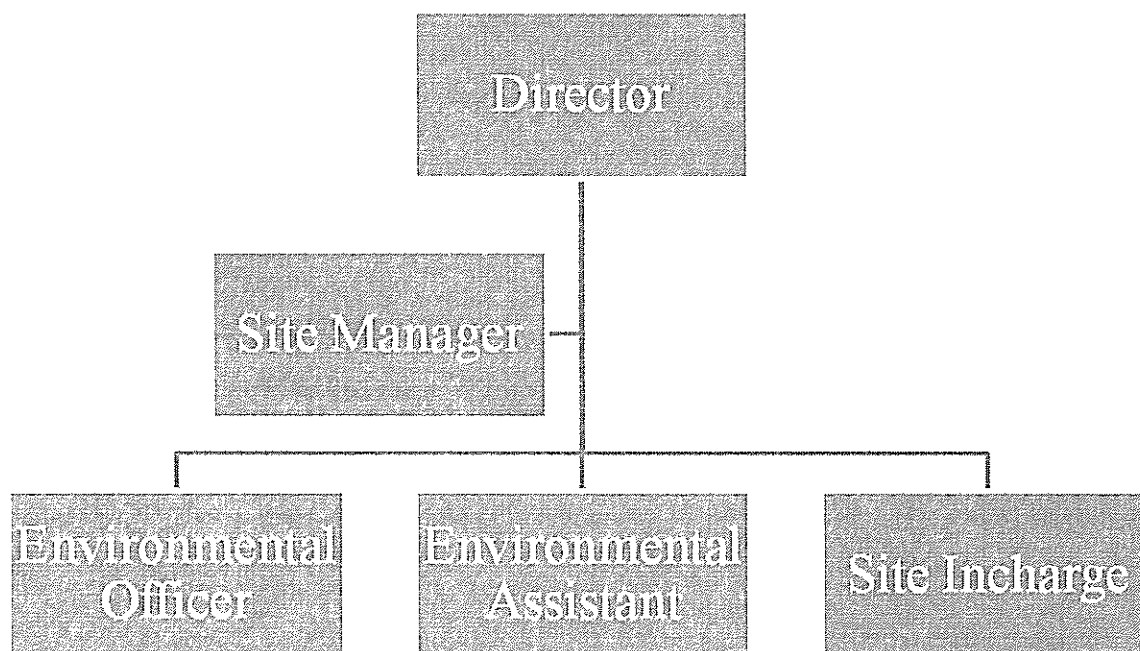
Solid Waste Management	• Total waste Generation - 9766 Cum • O. B. Removed upto 4th year will be stocked in External Dump on southside. • During 5th years waste stored in external dump would be used for backfilling.
Air Quality Management	• Wet drilling and use of sharp drill bits to minimize dust generation. • 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. • 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.
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- 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
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- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 17, 18, 19 & 20.02.2026, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of ToR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II alongwith following specific condition :-

- I. In compliance of OM no. F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "*Ek Ped Ma Ke Naam*" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
- II. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.

5. Bariyatu Stone Mine of Shri Manoj Kumar, Village : Bariyatu, Thana : Manika, Thana no. : 142, Distt. : Latehar, Jharkhand (2.445 Ha).

(Proposal no.: SIA/JH/MIN/ 565603 /2026)

Name of the consultant : Oceao-Enviro Management Solutions (India) Pvt. Ltd., Ghaziabad, U.P.

This is a new project which has been taken for appraisal on 19.02.2026.

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

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity: 66,839 Cum Per Annum or 1,80,465 Ton Per Annum

Project and Location Details:

S. No	Parameter	Details
1	Project Name	: Bariyatu Stone Mine with Crusher
2	Proponent	: Shri Manoj Kumar R/o - Gram-Turi, Ward No-11, Post-Kurhat Kataiya, P.S.- Hariharganj, Distt.- Palamu, Jharkhand-822131.
3	Lease Address	: Village- Bariyatu, Thana – Manika, Thana No.-142, District- Latehar, Jharkhand
4	Lease Area	: Acres: 6.04 Ha: 2.445
5	Cluster Details	: NA
6	Type of Land	: Raiyati Land (Non-Forest)
7	Project Cost	: Rs. 94.50 lakhs
8	EMP Budget	: Capital: 50.72Lakhs Recurring: 7.5 Lakhs / year
9	New or Expansion	: New
10	Mineable Reserves	: 3,33,744.00 Cum 9,01,108.80 Tonnes
11	Mine Life	: FiveYears
12	Man power	: 25 persons
13	Water Requirement	: Total water requirement is about 18.0 KLD= 1.0 KLD (Drinking & Domestic Uses) + 7.0 KLD Plantation) +10.0 KLD (Dust Suppression)
14	Water Source	: by Authorized hired water tankers.
15	DG Set / power	: 500 KVA (Temporary setup for Backup).
16	Crusher	: Yes
17	Nearest Water Body	: Water Dam Auratandis about 6.27 km in SSW direction.
18	Nearest Habitation	: Nearest dwelling is about 120 m in SE direction Nearest dwelling is about 112m in NW direction.(EMP Submitted)
19	Nearest Rail Station	: Nearest Railway Station Hehegara Halt is about 19.74 km away from Project site.
20	Nearest Airport	: Nearest Airport isBirsu Munda Airport, Ranchi about 113 km in ESE direction

21	Nearest Forest	:	Protected Forest	Reserved Forest
			Serangdag P.F. is about 12.06 km in E Direction	Devhar R.F. is about 10.94 in S Direction
			Sohdag P.F. is about 14.13 km in ESE Direction	Patki R.F. is about 14.19 km in S Direction
			Siked P.F. is about 13.92 ESE direction	
22	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 16.68 KM in (W) direction from the nearest Eco Sensitive Zone of Betla National park.	
23	Road & Highways	:	Bandi Road is about 8.34 Km in SW direction and (SH-10) Medinonagar – Bamulnath road 10.83 Direction	
24	Approach Road	:	Approach Road is 700 m in SE direction.	

CO-ORDINATES

Pillar No.	Latitude.	Longitude	Pillar No.	Latitude.	Longitude
1	23°54'55.996" N	84° 24'12.258" E	20	23° 54'51.424" N	84° 24'21.545" E
2	23°54'55.177" N	84° 24'12.378" E	21	23° 54'51.913" N	84°24' 21.227" E
3	23°54'54.426" N	84° 24'12.497" E	22	23°54'52.949" N	84°24'20.918" E
4	23° 54'54.434" N	84° 24'13.399" E	23	23°54'52.695" N	84°24'20.064" E
5	23° 54'53.438 "N	84° 24'13.135" E	24	23° 54'52.805" N	84°24'19.153" E
6	23° 54'52.782 "N	84° 24'13.791" E	25	23°54'53.351" N	84°24'19.138" E
7	23° 54'52.203 "N	84° 24'13.552" E	26	23° 54'53.558" N	84°24'18.568" E
8	23°54'51.655 "N	84° 24'14.054" E	27	23° 54'53.729" N	84°24'18.019" E
9	23°54'50.535 "N	84°24' 14.107" E	28	23°54'53.977" N	84°24'18.276" E
10	23°54'50.240 "N	84° 24'15.479" E	29	23° 54'54.645" N	84°24'18.700" E
11	23°54'50.240 "N	84° 24'15.479" E	30	23° 54'55.341" N	84°24'18.431" E
12	23°54'52.450 "N	84° 24'18.070" E	31	23° 54'55.036" N	84°24'17.555" E
13	23°54'51.124 "N	84° 24'17.592" E	32	23° 54'54.744" N	84°24'17.020" E
14	23°54'50.550 "N	84° 24'17.790" E	33	23° 54'54.845" N	84°24'15.966" E
15	23°54'50.641 "N	84° 24'18.999" E	34	23° 54'55.700" N	84°24'16.259" E
16	23°54' 51.314 "N	84°24' 19.335" E	35	23° 54'56.016" N	84°24'15.676" E
17	23°54'51.327 "N	84°24' 20.376" E	36	23° 54'55.622" N	84°24'15.342" E
18	23° 54'51.860 "N	84° 24'20.243" E	37	23°54'56.097" N	84°24'13.336" E
19	23° 54'51.356 "N	84° 24'20.755" E			

LAND DETAILS

KHATA	PLOT
52	397, 408, 418
45	404, 406
50	407
65	415, 417, 419
55	416

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Latehar vide letter no. 1245/M, dated 01.12.2025.
2	CO	:	The CO, Manika vide letter no. 316, dated 25.06.2025 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatiyani & Register II. During the appraisal it was seen from the KML that few houses at a distance of 120 meters in South- East direction and 112 meters in North –West direction from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Latehar vide memo no. 78/M, dated 22.01.2026 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	Deputy Director, Palamau Tiger Project, South Division, Medininagar vide letter no. 413, dated 26.06.2025 certified that the proposed project site is outside Eco Sensitive Zone of Palamau Tiger Reserve.
5	DFO Territorial	:	Divisional Forest Officer, Latehar Forest Division vide letter no. 902, dated 03.05.2025 certified that the distance of reserved / protected forest is more than 250 meter from proposed project site.
6	DSR	:	The DMO, Latehar has certified vide memo no. 82/M, dated 22.01.2026 that this project is mentioned in approved DSR of Latehar District as a potential area (Page no. 82).
7	Gram Sabha	:	BDO, Manika vide letter no. 1504, Dated 13.06.2025 informed that Gram Sabha conducted on 11.06.2025.
8	Mine Plan Approval	:	Approved by AMO –cum- Incharge DMO, Latehar vide memo no. 90/M, dated 27.01.2026.
9	Qualified Person	:	Md. Tauseef Warsi was present in the meeting and affirmed that the mine plan has been prepared by him.

WORKING DETAILS

1	Mining Method	:	OCM & Semi Mechanized
2	Quarry Area	:	1.40Ha; 3.45 Acres Life of Mine –Five Years
3	Waste Generation	:	5 years–Waste or O.B–44,790.00Cum
4	Stripping Ratio(t/m ³)	:	1:0.05

5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Highest Elevation of lease Area	:	382m Amsl
8	Lowest Elevation of lease Area	:	380mAmsl
9	Ultimate Working Depth	:	346m Amsl
10	Water Table	:	330m Amsl (50BGL)
11	Topography of Mine	:	Almost flat land with uneven surface
12	Explosive Requirement	:	150.09Kg/day(External Agency)
13	Diesel/Fuel requirement	:	472Liters per day

YEAR WISE PRODUCTION DETAILS

Year	Production of Stone in Cum	Production of Stone in Tonnes	Generation of waste/Overburden in Cum	Grade/Uses
1st	55287.00	149274.90	37136.00	Construction & Road
2nd	66433.00	179369.10	7654.00	Construction & Road
3rd	66491.00	179525.70	00	Construction & Road
4th	66839.00	180465.30	00	Construction & Road
5th	58117.00	156915.90	00	Construction & Road
Total	313167.00	845550.90	44790.00	

LAND USE

LAND USE PATTERN			
	Existing	First to Fifth Years	After Life of Mine
Category	Area in Ha	Area in Ha	Area IN Ha
Quarry	0.00	1.38	1.40(area converted into water reservoir)
Haul Road	0.00	0.02 (used under quarry)	0.00
Green belt in Safety Zone	0.00	0.77	0.77 (Plantation)
Fixed Crusher, Dump with Parapet wall & Garland drain	0.00	0.275	0.275(area used for plantation & dismantle crusher)
Total area in use	0.00	2.445	2.445
Balance unused area	2.445	0.00	0.00
Balance used area	0.00	0.00	0.00
Total Applied Lease Area	2.445	2.445	2.445

ENVIRONMENT MANAGEMENT

Green Belt Development

Year	Place of Plantation	Spacing b/w plants	Total No. of Plants	Area Cover in Square Meters	Total Area in Ha.	Species
1st	Safety Zone	2.5 x 2.5	1232	7700	0.77	Safety Zone Gulmohar, Gular Along the Rd. fruit bearing trees Mango, Jack fruit, Guava,
	Haul Road	3.0 x 3.0	932	700Meter Approach Rd. Two row both side $700/3=233*4=932$ Plants	--	
	Unused Area	2.5 x 2.5	440	---	0.275	
2nd	Care & Protection	---	---	---	---	
3rd	Care & Protection	---	---	---	---	
4th	Care & Protection	---	---	---	---	
5th	Care & Protection	---	---	---	---	
Total			2604	7700	1.045	

- In accordance with Office Memorandum No. F.No. IA3-22/3/2024-IA.III (E-241594), dated 24.07.2024, issued by the Ministry of Environment, Forest and Climate Change (MoEF&CC), out of the total 2604 trees proposed to be planted in the designated green belt area—both within and outside the lease boundary—10% (approximately 260 saplings) shall be earmarked under the national tree plantation campaign "Ek Ped Ma Ke Naam."
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Environment Management Budget.

PROPOSED FOR ENVIRONMENT MANAGEMENT COST			
S.NO	Mitigative measures to protect Environment	Capital Cost (In Lakhs)	Recurring cost (In Lakhs)
01.	Water Sprinkling/Air pollution control (Dust Suppression along haulage road and mine)	25.0	2.0
02.	Green belt development safety zone 7.5mtr, unused area and along the road (for each plant including hedges and fences) @ No. of plants 2604 x 700Rs.	18.22	2.5
03.	Environment Monitoring (Air, Water, Noise & Soil Monitoring)	Nil	1.20
04	Solar Light Installed in Village Bariyatu 10Pcs @15000	1.5	0.30
05.	Settling tank & Garland drain	2.0	0.5
TOTAL		46.72	6.5

Additional Blasting cost

BLASTING			
		Capital	Recurring
1	Training and Awareness of personnel during Blasting operations	1,00,000	20,000
2	Provision of safe distance from the Project site for the settlements		
	• Blasting shelters and Sirens	1,00,000	40,000
	• Portable Drop Arm Barrier	2,00,000	40,000
Total cost		4,00,000	1,00,000

Endangered species of flora, fauna & Schedule-I

Based on the preliminary study conducted during the baseline data generation phase, along with consultations with local residents and relevant authorities, no endangered species of flora or fauna, including those listed under Schedule-I of the Wildlife (Protection) Act, 1972, were observed within the designated 10 km study area.

Environment Monitoring Cell

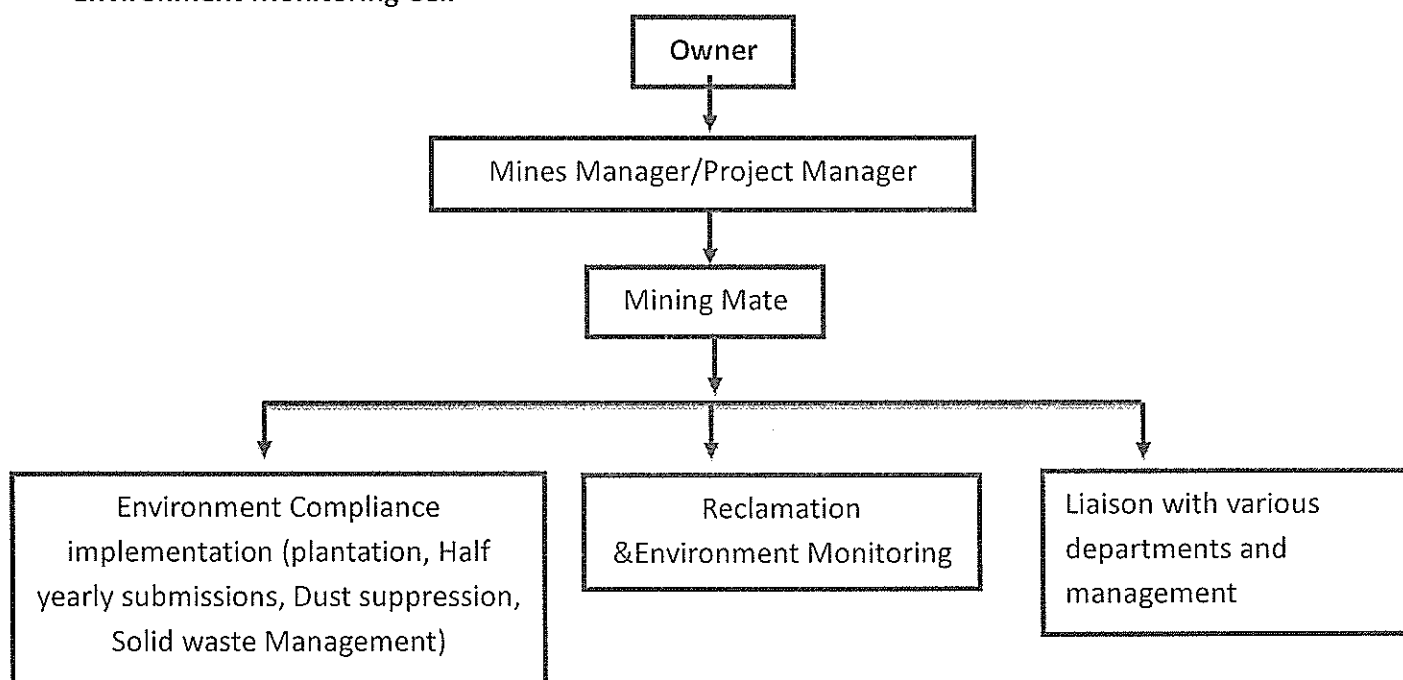


Fig: Organization Chart for Environment Management Cell

Functions of Environment Management cell

- Supervision: Managed by Mines Manager with a qualified technical team.
- Personnel: Includes skilled, semi-skilled, unskilled, and other third parties.
- Responsibilities:
 - ✓ Implement environmental control measures.
 - ✓ Oversee reclamation planning and management.
 - ✓ Manage air and water pollution control.
 - ✓ Liaise with state and central statutory agencies.
 - ✓ Develop greenbelt areas.

- Performance Review: Assess corporate environmental performance and report non-compliances.
- Remedial Actions: Suggest and implement actions for exceeding pollution limits.
- Coordination:

Collect health statistics for workers and local population.

Act as a bridge for project implementation and Project Authorities

Facilitate afforestation efforts.

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

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

No Schedule-I species or significant wildlife movement was observed during the survey period.

Overall, the study area exhibits low to moderate ecological sensitivity, with no critical biodiversity or habitat constraints for the proposed project.

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	The waste encountered during the mining operation is mainly 44,790.00 cum. During Plan period gritty soil removed will be dumped at south-east side with suitable precaution. Some quantity of the removed gritty soil would also be used for road dressing and plantation. After conceptual period mined out area of quarry will be reclaimed to the extent possible.
Air Quality Management	• Wet drilling and use of sharp drill bits to minimize dust generation. • Controlled blasting using optimum explosive charge during favourable weather conditions. • Regular maintenance of diesel equipment and vehicles to reduce emissions. • Water sprinkling on haul roads, loading/unloading points, and working areas. • All transport vehicles will have valid PUC certificates. • Greenbelt and roadside plantation to act as dust and noise barriers.

Water Quality Management	• 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. • 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. ▪ 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 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 mainroad (wherever required). ▪ To avoid danger while reversing the vehicles especially at working place/loading points, stopper should be posted to properly guide reversing/spotting operating.

Undertaking submitted affirming:

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

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bariyatu Stone Mine of Shri Manoj Kumar, Village : Bariyatu, Thana : Manika, Thana no. : 142, Distt. : Latehar, Jharkhand (2.445 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

- I. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- II. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- III. 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.
- IV. 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.
- V. 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.
- VI. 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.
- VII. 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.
- VIII. 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.

- IX. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- X. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

6. Sijang Stone Deposit of Shri Rajkumar Sahu, Village : Sijang, Thana : Kalebira, Thana no. : 108, Distt. : Simdega, Jharkhand (0.98 Ha).

(Proposal no.: SIA/JH/MIN/ 563337 /2026)

Name of the consultant : Oceao-Enviro Management Solutions (India) Pvt. Ltd., Ghaziabad, U.P.

This is a new project which has been taken for appraisal on 19.02.2026.

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

Application for Environmental Clearance (EC).

EC Application for: Proposed Capacity: 29,114.08 Cum Per Annum or 81,519.42 Ton Per Annum.

Project and Location Details:

S. No	Parameter	Details
1	Project Name	: Sijang Stone Deposit
2	Proponent	: Shri Rajkumar Sahu R/o - Village - Sijang, P.O. - Barsloya, P.S. -Kalebira, District - Simdega, Jharkhand - 835211.
3	Lease Address	: Village -Sijang, Thana - Kalebira, Thana No-108, District - Simdega, Jharkhand.
4	Lease Area	: Acres: 2.42 Ha: 0.98
5	Cluster Details	: NA
6	Type of Land	: Raiyati Land (Non-Forest)
7	Project Cost	: Rs. 71.50 lakhs
8	EMP Budget	: Capital: 40.32Lakhs Recurring: 7.0 Lakhs / year
9	New or Expansion	: New
10	Mineable Reserves	: 1,45,251.96Cum 4,06,705.49 Tonnes
11	Mine Life	: FiveYears
12	Man power	: 32 persons

13	Water Requirement	:	Total water requirement is about 16.12 including drinking (1.12 KLD) & sprinkling (10.0 KLD) and for greenbelt (5.0 KLD).
14	Water Source	:	by Authorized hired water tankers.
15	DG Set / power	:	500 KVA (Temporary setup for Backup).
16	Crusher	:	Yes
17	Nearest Water Body	:	Deo Nadi is about 2.74 km in ENE direction.
18	Nearest Habitation	:	Nearest dwelling is about 310m in north direction Nearest habitation is about 330m in SE direction. (EMP Submitted)
19	Nearest Rail Station	:	Nearest Railway Station Bano is about 5.24 km away from Project site in E Direction.
20	Nearest Airport	:	Nearest Airport is Birsa Munda Airport, Ranchi about 86.81 km in NNE direction.
21	Nearest Forest	:	Serangdag P.F. is about 12.06 km in E Direction.
22	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 34.07 KM in (WNW) direction from the nearest Eco Sensitive Zone of Palkot Wildlife Sanctuary.
23	Road & Highways	:	NH-320G is about 2.19 Km in S direction.
24	Approach Road	:	Approach Road is 350 m in N direction.

CO-ORDINATES

BP. No	Latitude	Longitude
1	22° 40' 3.593" N	84° 51' 6.261" E
2	22° 40' 3.460" N	84° 51' 5.023" E
3	22° 40' 2.439" N	84° 51' 3.756" E
4	22° 40' 2.595" N	84° 51' 2.504" E
5	22° 40' 3.158" N	84° 51' 2.445" E
6	22° 40' 3.384" N	84° 51' 1.916" E
7	22° 40' 3.296" N	84° 51' 1.598" E
8	22° 40' 3.650" N	84° 51' 1.071" E
9	22° 40' 4.998" N	84° 51' 1.376" E
10	22° 40' 5.605" N	84° 51' 1.715" E
11	22° 40' 5.469" N	84° 51' 3.131" E
12	22° 40' 5.921" N	84° 51' 5.222" E
13	22° 40' 5.397" N	84° 51' 5.530" E
14	22° 40' 3.915" N	84° 51' 5.419" E

LAND DETAILS

Khata no.	Plot no.
13	1434 & 1435

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Simdega vide letter no. 780/M, dated 26.08.2025.
2	CO	:	The CO, Kalebira vide letter no. 435 (ii)/Ra., dated 25.07.2025 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatyan & Register II. During the appraisal it was seen from the KML that habitation at a distance of 310 meters in North direction and 330 meters in South –East direction from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Simdega vide memo no. 1076/M, dated 09.12.2025 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Division, Ranchi vide letter no. 475, dated 14.07.2025 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Simdega Forest Division vide letter no. 716, dated 10.04.2024 certified that the distance of reserved / protected forest is more than 250 meter from proposed project site.
6	DSR	:	The LoI was granted on 26.08.2025. The DSR for Simdega was approved by the Sub-Divisional Committee on 16.09.2023 and submitted to SEIAA for approval on 16.09.2023. However, DC-cum-District Magistrate, Simdega vide letter no. 172/M, dated 13.02.2026 requested to consider the said project proposal as part of approved District Survey Report & further requested that this project may be taken up for consideration for grant of EC. The Committee accepted the request of the DC-cum-District Magistrate, Simdega.
7	Gram Sabha	:	Gram Sabha conducted on 26.07.2025.
8	Mine Plan Approval	:	Approved by DMO, Simdega vide memo no. 1032/M, dated 02.12.2025.
9	Qualified Person	:	Shri Sahadev Singh was present in the meeting and affirmed that the mine plan has been prepared by him.

WORKING DETAILS

1	Mining Method	:	Semi-Mechanized & Manual	
2	Quarry Area	:	0.67Ha or 1.65 Acres	Life of Mine –FiveYears
3	Waste Generation	:	5 years–Waste or O.B–11,775.20 Cum	
4	Stripping Ratio(t/m ³)	:	1:0.06	
5	Working Days	:	300	
6	Benches: size & No	:	3m x 3m	
7	Highest Elevation of lease Area	:	459m Amsl	
8	Lowest Elevation of lease Area	:	457m Amsl	
9	Ultimate Working Depth	:	429m Amsl	
10	Water Table	:	412m Amsl (47mBGL)	
11	Topography of Mine	:	Almost flat land with unevensurface	
12	Explosive Requirement	:	68Kg/day(External Agency)	
13	Diesel/Fuel requirement	:	588Liters per day	

YEAR WISE PRODUCTION DETAILS

Year	Production of Stone		Generation of l/waste in cum	O/B waste in Cum	Total waste in Cum	Stripping ratio t/m ³
	Cum	Tonnes				
1st	29,070.76	81,398.13	1530.04	3284.00	4814.04	1:0.06
2nd	29,082.16	81,430.05	1530.64	Nil	1530.64	1:0.02
3rd	28,988.68	81,168.30	1525.72	Nil	1525.72	1:0.02
4th	29,114.08	81,519.42	1532.32	846.40	2378.72	1:0.03
5th	28,995.52	81,187.46	1526.08	Nil	1526.08	1:0.02
Total	1,45,251.20	4,06,703.36	7644.80	4130.40	11,775.20	

LAND USE

Pattern of Utilization	Existing Land Use (Ha)	At the end of the Plan period (Ha)	At conceptual Period (Ha)
Excavation	0.0	0.67 (including Proposed crusher 0.03 Ha.)	0.67 (area left as water reservoir for rain water harvesting)
Road	0.0	Nil (Within the quarry)	Nil (Within the quarry)
Proposed Crusher	0.0	0.03 Ha (Within the quarry)	Nil
Safety zone (Green belt)	0.0	0.31	0.31
Total	0.0	0.98	0.98

ENVIRONMENT MANAGEMENT

Green Belt Development

Year	Place of Plantation	Total No. of Plants	Spacing b/w plants	Area Length	Total Area in Ha.	Species
1st	Safety Zone	775	2m x 2m	3100	0.31	<u>Safety Zone</u> Gulmohar, Gular, Sagwan, Sakua <u>Along the Rd.</u> fruit bearing trees Mango, Jack fruit, Guava,
	Approach Road	700	2m X 2 m spacing in two rows both side	350m Meter Approach Rd. Two row both side $350/2=175$ $175*4=700$ Plants	--	
2nd	Care & Protection	---		---	---	
3rd	Care & Protection	---		---	---	
4th	Care & Protection	---		---	---	
5th	Care & Protection	---		---	---	
Total		1475		3100	0.31	

In accordance with Office Memorandum No. F.No. IA3-22/3/2024-IA.III (E-241594), dated 24.07.2024, issued by the Ministry of Environment, Forest and Climate Change (MoEF&CC), out of the total 1475 trees proposed to be planted in the designated green belt area—both within and outside the lease boundary—10% (approximately 147 saplings) shall be earmarked under the national tree plantation campaign "Ek Ped Ma Ke Naam."

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

Environment Management Budget.

PROPOSED FOR ENVIRONMENT MANAGEMENT COST			
S.NO	Mitigative measures to protect Environment	Capital Cost (In Lakh)	Recurring cost (In Lakh)
1.	Water Sprinkling/Air pollution control (Dust Suppression along haulage road and mine) One water tanker	25.0	2.0
2.	Green belt development safety zone 7.5mtr, and along the approach road (for each plants including hedges and fences) @ No. of plants 1475 x 700Rs.	10.32	2.5
3.	Environment Monitoring (Air, Water, Noise& Soil Monitoring)	Nil	1.0

4.	Settling Tank & Garland drain	1.0	0.5
TOTAL		36.32	6.0

Additional Blasting cost

BLASTING			
		Capital	Recurring
1	Training and Awareness of personnel during Blasting operations	1,00,000	20,000
2	Provision of safe distance from the Project site for the settlements		
	• Blasting shelters and Sirens	1,00,000	40,000
	• Portable Drop Arm Barrier	2,00,000	40,000
Total cost		4,00,000	1,00,000

Endangered species of flora, fauna & Schedule-I

Based on the preliminary study conducted during the baseline data generation phase, along with consultations with local residents and relevant authorities, no endangered species of flora or fauna, including those listed under Schedule-I of the Wildlife (Protection) Act, 1972, were observed within the designated 10 km study area.

Environment Monitoring Cell

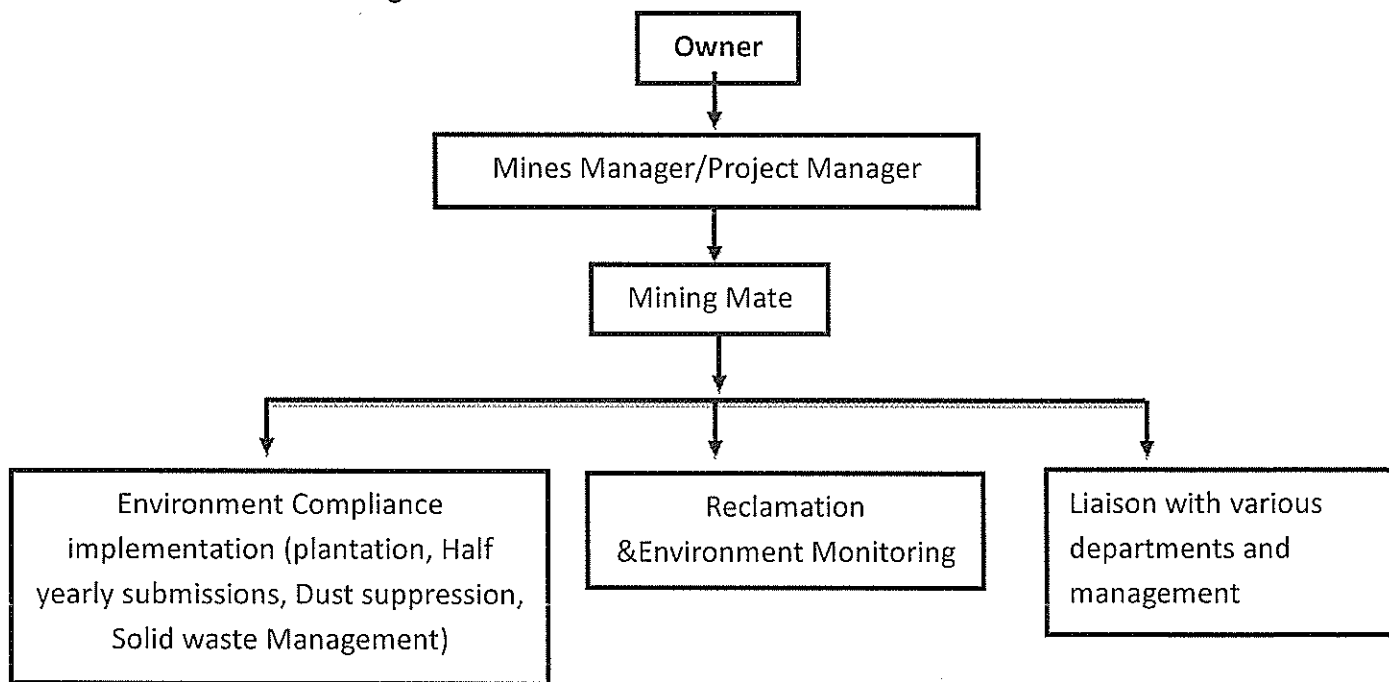


Fig: Organization Chart for Environment Management Cell

Functions of Environment Management cell

- Supervision: Managed by Mines Manager with a qualified technical team.
- Personnel: Includes skilled, semi-skilled, unskilled, and other third parties.
- Responsibilities:
 - ✓ Implement environmental control measures.
 - ✓ Oversee reclamation planning and management.
 - ✓ Manage air and water pollution control.

- ✓ Liaise with state and central statutory agencies.
- ✓ Develop greenbelt areas.
- Performance Review: Assess corporate environmental performance and report non-compliances.
- Remedial Actions: Suggest and implement actions for exceeding pollution limits.
- Coordination:

Collect health statistics for workers and local population.

Act as a bridge for project implementation and Project Authorities

Facilitate afforestation efforts.

Environment Monitoring Plan (post operation)

Monitoring Parameters and Frequency of Monitoring

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

No Schedule-I species or significant wildlife movement was observed during the survey period.

Overall, the study area exhibits low to moderate ecological sensitivity, with no critical biodiversity or habitat constraints for the proposed project.

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	The waste encountered during the mining operation is mainly 11,775.20 cum. During Plan period gritty soil removed will be dumped with suitable precaution. Some quantity of the removed gritty soil would also be used for road dressing and plantation. After conceptual period mined out area of quarry will be reclaimed to the extent possible.
Air Quality Management	• Wet drilling and use of sharp drill bits to minimize dust generation. • Controlled blasting using optimum explosive charge during favourable weather conditions. • Regular maintenance of diesel equipment and vehicles to reduce emissions. • Water sprinkling on haul roads, loading/unloading points, and working areas.

	• All transport vehicles will have valid PUC certificates. • Greenbelt and roadside plantation to act as dust and noise barriers.
Water Quality Management	• 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. • 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. ▪ 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 Explosives	& of	▪ 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 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.

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 Lol has been granted although this area is not included in the approved DSR. This EC has been considered on the request of the DC, Simdega However, the DC must ensure that the area over which the Lol is granted is meeting all the guideline as required for approval of the DSR and also to take concurrence from the Sub-Divisional Committee. The lease is to be granted only after taking concurrence of the Sub-Divisional Committee.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Sijang Stone Deposit of Shri Rajkumar Sahu, Village : Sijang, Thana : Kalebira, Thana no. : 108, Distt. : Simdega, Jharkhand (0.98 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I along with following specific conditions :

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

maintained and submitted with 6 monthly compliance report with Geo-Tagged photographs.

- VII. Keep vulnerable areas unmanned. Ensure rotation of duties. Records to be maintained and submitted with 6 monthly compliance report.
- VIII. Failing of any of terms & conditions mentioned in EC can lead to revocation / cancellation of EC.

7. Pokharia Stone Mine of M/s Mewar Enterprises (Prop. : Shri Om Prakash Sharma), Village : Pokharia, Tehsil : Shikaripara, Distt. : Dumka, Jharkhand (1.26 Ha).

(Proposal no.: SIA/JH/MIN/ 559249 /2025)

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

This is a new project which has been taken for appraisal on 19.02.2026.

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

Application for Terms of Reference (ToR).

TOR Application for: Proposed Capacity: 23055 Cum. (Max.) per year/ 62248.5 Tons (max) per year

Project and Location Details:

I	Parameter	Details
1	Project Name	: Pokharia Stone Mine
2	Lessee:	: Shri Om Prakash Sharma, S/O Shri Dal Chandra Sharma
3	Lessee Address	: At Present Village-Pinagaria, P.O.- Benagaria P.S.-Shikaripara, Dist-Dumka, State-Jharkand.
4	Cluster details	4 nos. of mines including project site having total cluster area of 19.65 Acres.
5	Mine Lease Area	: 1.26 Ha
6	Type of Land	: Non-Forest Raiyati Land
7	Project Cost	Capital Cost: Rs. 137.94 Lakhs
8	EMP Budget	: Capital Cost: Rs.23.98Lakhs Recurring Cost: Rs. 6.83Lakhs/year
9	New or Expansion	: New

10	Mineable Reserves	:	cum.: 1,56,312	Tonnes: 4,22,042.4
11	Mine Life	:	7 Years	
12	Man power	:	20 Person	
13	Water Requirement	:	6.28 KLD (Drinking: 0.3 KLD, Dust Suppression: 1.68 KLD Plantation: 4.3 KLD).	
14	Water Source	:	Will be sourced from authorized vendors	
15	DG Set / power	:	60 KVA D.G. Set proposed	
16	Crusher	:	No	
17	Nearest Water Body	:	Banslai River flowing in 5.66 km	
18	Nearest Habitation	:	Few houses were present near the lease area 1. 450m at North side 2. 460m at Southeast side	
19	Nearest Rail Station	:	Pinargaria Railway Station at aerial distance of 5.08 km in NE direction	
20	Nearest Air Port	:	Ranchi Airport is at aerial distance of 248 km SW direction.	
21	Nearest Forest	:	More than 250 m, as per Division Forest Officer, Dumka, vide memo no.- Letter no.-815 Dated- 11.03.2017.	
22	Distance of nearest ESZ of Wildlife Sanctuary or National Park	:	The project location is at approx. 80 KM in (WNW) direction from the nearest Eco Sensitive Zone of Udhwa Bird Sanctuary.	
23	Road & Highways	:	The distance of Approach Road is 420m, after that, this road connects to village road.	
24	Approach Road	:	The distance of approach road is 420 m.	
25	Baseline Period	:	December 2025 to February 2026	

CO-ORDINATES

Point Name	Longitude	Latitude
1	087° 33' 44.13" E	24° 11'57.97" N
2	087° 33' 43.70" E	24° 11'55.02" N
3	087° 33' 44.12" E	24° 11'54.83" N
4	087° 33' 43.72" E	24° 11'52.87" N
5	087° 33' 43.67" E	24° 11'52.14" N
6	087° 33' 42.56" E	24° 11'52.35" N
7	087° 33' 41.62" E	24° 11'52.55" N
8	087° 33' 41.17" E	24° 11'55.39" N
9	087° 33' 42.31" E	24° 11'58.47" N
10	087° 33' 43.23" E	24° 11'57.94" N

LAND DETAILS

Khata no.	Plot no.
30	1242 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Dumka vide letter no. 941/M, dated 18.06.2020.
2	CO	:	The CO, Shikaripara vide letter no. 284/Ra., dated 12.03.2020 has mentioned the plot no. of the project is not recorded as "Jungle-Jhari" in R.S. Khatyan & Register II. During the appraisal it was seen from the KML that few houses at a distance of 450 meters in North direction and 460 meters in South direction from mining lease area. For which detailed Environmental Management Plan has been prepared and submitted.
3	DMO Cluster	:	DMO, Dumka vide memo no. 1090/M, dated 24.09.2025 certified that 03 other mining lease area (4.00 Acre, 5.70 Acre & 4.34 Acre) and 01 LoI (2.51 Acre) exists within 500 meters radius from proposed project site and total area is 19.65 Acre.
4	DFO Wild Life	:	DFO, Wildlife Division, Hazaribag vide letter no. 1394, dated 13.08.2020 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.
5	DFO Territorial	:	Divisional Forest Officer, Dumka Forest Division vide letter no. 815, dated 11.03.2017 certified that the distance of forest is 576 meters from proposed project site.
6	DSR	:	This project is mentioned in approved DSR of Dumka District (Page no. 149, Sl no. 05).
7	Gram Sabha	:	Gram Sabha conducted on 19.06.2016.
8	Mine Plan Approval	:	Approved by Deputy Director Mines, Santhal Pargana Circle, Dumka vide Memo No. 142/DDM, dated 24.06.2020.
9	Qualified Person	:	Shri A.K. Sinha was through letter dated 19.02.2026 affirmed that the mine plan has been prepared by him.
10	Baseline study period	:	December, 2025 to February, 2026.

Working Details

1	Mining Method	:	Mechanized open cast mining	
2	Quarry Area	:	0.88Ha	Life of Mine – 7 Years
3	Waste Generation	:	9,272 cum	
4	Stripping Ratio	:	01:0.03	
5	Working Days	:	300	
6	Benches: size	:	3 m x 3 m	
7	Elevation of Mine	:	180 m AMSL	
8	Ground Level Elevation	:	180 m AMSL	
9	Ultimate Working Depth	:	159m AMSL	
10	Water Table	:	150m AMSL (Source- JSAC Ground Water Prospect Map)	
11	Topography of Mine	:	Area represents gently sloping land.	
12	Explosive Requirement	:	19.2 kg says (20 kg) Power Gel Cartridge or slurry explosives/day, will be obtained from lessened vendors.	
13	Diesel/Fuel requirement	:	HSD – 245.58 liters / day (81.041 KL/year)	

Production Details

Year	Production of Stone / Year		Removal of O.B.
	Cum	Tonnes	Cum
1st	22935	61924.5	9272
2nd	23055	62248.5	0
3rd	22824	61624.8	0
4th	21996	59389.2	0
5th	15644	42238.8	0
Total	106454	287425.8	9272

Land Use pattern

Si. No.	Pattern of Utilization	Present/Existing land use pattern in (Ha.)	Proposed Land use for current plan period (Ha.)	Land used at the conceptual stage i.e. end of mine life in (Ha.)	Area to be converted in the conceptual period.
1	Mining Activities	-	0.88	0.88	Water body
2	Mining Road	-	0.03	0.03	Water body
3	Garland drain	-	0.004	0.004	-
4	Safety Zone	-	0.35	0.35	Plantation
6	Unutilized	1.26	0.059	0.000	-
Total		1.26	1.26	1.26	-

ENVIRONMENT MANAGEMENT
Green Belt Development

S. No.	Location		Area/Length	No of Trees
1	Green belt/Safety zone	:	0.35 Ha	875
2	Along Approach Road	:	420 m	560
TOTAL				1,435

- 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.
- Project Cost**

Sl. No.	Head	Capital Cost Rs. in Lakhs	Recurring Cost Rs. in Lakhs
1.	Government Revenue (Dead Rent& Royalty)	25.00	--
2.	Cost of infrastructure	5.0	0.5
3.	Mining Machineries owned by applicant a. Wagon Drill -04 b. Compressor-01 c. Tippers 25 tons-01 d. Diesel Pump-01 e. D.G. Set-01 f. Water tanker-01	86.4	--
	Mining Machineries on hired basis- (Excavator- 01, Tipper-02)	--	8
4.	Lease Agreement(lump-sum)	--	0.77
5.	Statutory Clearance & Others	9.0	-
6.	Contingency	12.54	-
Total		137.94	9.27
Budget for Environment Management		23.98	6.83

- Budget for Environmental Management**

Sl. No.	Particulars	Capital Cost in Lakhs.	Recurring Cost in Lakhs
1	Water facility for Dust Suppression, watering plants etc. (Rs. 1000 per Tanker)	--	3
2	Plantation 560 X 800 = Rs 4,48,000 (Gabion Plantation along approach road) 875 X 400 =Rs 3,50,000 (Plantation within lease area/Green Belt)	7.98	0.8

Sl. No.	Particulars	Capital Cost in Lakhs.	Recurring Cost in Lakhs
	(also includes Fertilizer, Pesticides, Maintenance)		
3	Fencing	1	-
4	Environmental Monitoring (One Day Monitoring) - Ambient Air 24 hrs (3 point) - Rs.27,270 - Ground Water (2 point) - Rs.12,420 - Noise 24 hrs (3 point) - Rs.21,000 - Soil (3 point) -Rs.40,920 - Total -Rs. 1,01,610 (Per Season) At least two seasons in a Year -Rs. 1,01,610 x 2 = Rs. 2,03,220 Source: Central Pollution Control Board Notification, New Delhi, the 23rd February, 2022	--	2.03
5.	Environmental Management Plan (For Habitation)	15.00	1.00
Total		23.98	6.83

Environment Monitoring Programmed

SL. No.	Description	No. of Monitoring Stations	Duration
1.	Air	4 stations	6 Monthly
2.	Surface Water	2 stations	6 Monthly
3.	Ground Water	2 stations	6 Monthly
4.	Noise	4 stations	6 Monthly
5.	Soil	2 Station	6 Monthly

Environment Management Practices to be followed:

Aspect	Mitigation Measures / Control Measures
Solid Waste Management	- Solid waste management is important from both aesthetic and environmental points of view and will be managed as per the Solid Waste Management Rules, 2016. - An O.B. (Overburden) dump area of has been provided within the lease area. - The O.B. dump area will accommodate 9272 cum of overburden

	during the working plan period. - After completion of the working plan, the generated O.B. will be backfilled into the stone quarry faces. Part of the O.B. will be used for haul road and village road maintenance. - The remaining O.B. will be utilized for plantation activities. No hazardous or other solid waste generation is envisaged from the stone mining activities.
Air Quality Management	- Wet drilling and use of sharp drill bits to minimize dust generation. - Controlled blasting using optimum explosive charge during favourable weather conditions. - Regular maintenance of diesel equipment and vehicles to reduce emissions. - Water sprinkling on haul roads, loading/unloading points, and working areas. - All transport vehicles will have valid PUC certificates. - Greenbelt and roadside plantation to act as dust and noise barriers.
Water Quality Management	- 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. - 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

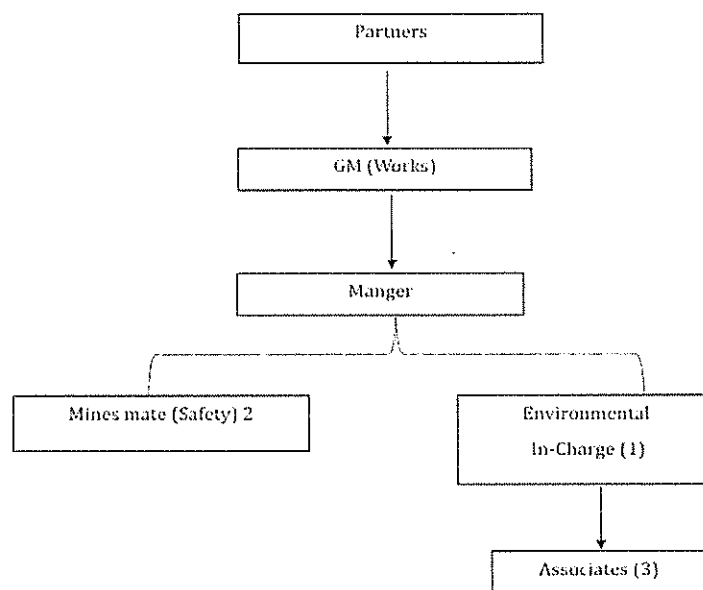
Flora & Fauna management	• No tree felling will be undertaken without obtaining permission from the competent authority. • Greenbelt and plantation will be developed using native species along approach roads and lease periphery (7.5m Safety Zone). • Dust suppression measures will minimize impact on surrounding 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. ▪ 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 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.
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Organizational Structure of Environment Management Cell:

ORGANIZATION CHART OF ENVIRONMENTAL MONITORING CELL



EMP Cell structure

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

Undertaking submitted affirming:

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

- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.
- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 17, 18, 19 & 20.02.2026, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of ToR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II alongwith following specific condition :-

- I. The mine will come in operation only after obtaining permission from DGMS for controlled and delayed blasting.
- II. In compliance of Office Memorandum no. IA-J-11013/20/2025-IA-P, dated 25.11.2025 of MoEF&CC, Govt. of India, the PAs will mandatorily obtain the Environmental Safeguard to be implemented from Jharkhand State Pollution Control Board within 30 days of issuance of EC or 31.01.2026 which ever is earlier.
- III. 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.

The meeting concluded with thanks to all present.

Absent

Ashok Kumar Dubey, IFS (Retd.)
Member

Ajay Govind Bhatt
20/02/2026

Dr. Ajay Govind Bhatt
Member

Niranjan Lal Agarwalla

Niranjan Lal Agarwalla
Member

Raju Kumar

Dr. Raju Kumar
Member

S. Verma
20/02/2026
Srikant Verma, IFS
Member Secretary

Ashok Kumar Singh
20/02/2026
Ashok Kumar Singh, IFS (Retd.)
Chairman

I. Statutory compliance

- i. This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- ii. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpadvs 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 proscribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- iii. The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- iv. The Hon'ble Supreme Court vide order dated 08.01.2020 in W.P. (Civil) No. 114/2014 in the matter of Common Cause vs. Union of India has directed that the area which has been mined should be restored so that grass and other vegetation including trees can grow in the mining area for the benefit of animals.

"The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

- v. The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- vi. This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- vii. This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- viii. Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.

- ix. The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- x. The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- xi. The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IAJI (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- xii. The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- xiii. A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- xiv. State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- xv. The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www. Environment clearance.nic.in](http://www.Environmentclearance.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEF& CC Regional Office for compliance and record.
- xvi. The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

- i. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical

parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCUI, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

- ii. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from ail sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance: Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.

III. Water quality monitoring and preservation

- i. In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- ii. Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- iii. Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be

submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.

- iv. The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
- v. Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IAJI (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- vi. Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.
- vii. Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

- viii. The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

- i. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- ii. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- iii. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining Plan

- i. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- ii. The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.

- iii. The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.

VI. Land reclamation

- i. The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- ii. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- iii. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
- iv. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
- v. The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
- vi. Catch drains, settling tanks and ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.

- vii. Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
- viii. The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

VII. Transportation

- i. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- ii. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

- i. The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- ii. The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- iii. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- iv. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation, if any found or reported by the competent authority. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.
- v. If any Wild Life Conservation Plan is prepared as per above clause no. iv, it shall be implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

IX. Public hearing and human health issues

- i. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which

are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.

- ii. The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
- iii. The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- iv. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be

presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.

- v. The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- vi. Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- vii. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

X. Corporate Environment Responsibility (CER)

- i. The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.
- ii. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office.

XI. Miscellaneous

- i. The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.

- ii. The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- iii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF& CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.
- iv. A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.
- v. The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
- vi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- vii. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- viii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- ix. The Environmental Clearance accorded shall be valid for the period of lease of the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance
- x. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

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

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

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

buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

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

shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

- xxiv. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- xxv. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- xxvi. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- xxvii. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- xxviii. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- xxix. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- xxx. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- xxxi. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- xxxii. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving

the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

- xxxiii. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- xxxiv. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- xxxv. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- xxxvi. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- xxxvii. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- xxxviii. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- xxxix. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- xl. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- xli. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- xlii. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- xlili. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- xliv. Besides the above, the below mentioned general points are also to be followed :-
 - a) Executive Summary of the EIA/EMP Report

- b) All documents to be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
- xlv. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
- xlvi. The Prescribed ToRs 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.

