

MINUTES OF THE 105TH MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 15TH, 16TH, 17TH, 18TH and 19TH JUNE, 2023.

The 105th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 15th, 16th, 17th, 18th and 19th June, 2023 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. Dr. Kirti Avishek - Member
3. Shri Niranjan Lal Agarwalla - Member
4. Dr. Raju Kumar - Member
5. Dr. Ajay Govind Bhatt - Member
6. Shri Srikant Verma, IFS - Secretary

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 22nd, 23rd, 24th, 25th and 26th May, 2023. 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 : June 15th, 2023 [Thursday]

A. Deputy Commissioner –cum- District Magistrate, Ranchi or through authorized representative and M/s Crystal Consultants, Ranchi

i. District Survey Report (DSR) of Sand, District Ranchi.

The DSR was submitted by District Magistrate –cum- Deputy Commissioner, Ranchi. He was represented by District Mining Officer, Ranchi Shri Sanjeev Kumar and Assistant Director, Geology, Ranchi Smt. Anima Xess.

The DMO, Ranchi has requested vide letter no. 713/M, dated 14.06.2023 to defer the consideration of this DSR on 17.06.2023 in place of 15.06.2023. Accordingly the request was accepted and the DSR considered in SEAC meeting on 17.06.2023.

During the meeting the consultant M/s Crystal Consultants, Ranchi, Jharkhand in the presence of DMO, Ranchi and Assistant Director, Geology, Ranchi presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of Enforcement and Monitoring Guidelines for Sand Mining (EMGSM), 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors and they have affirmed the following :



1. The final DSR submitted is duly signed by all members of the Sub Divisional Committee and the Consultant. All the pages of the DSR are signed by the authorized officer of the Sub Divisional Committee.
2. The final DSR consists of the complete potential area and is demarcated as Potential Resource Area (PRA) / Sand Leases / Ghats as per EMGSM guideline 2020.
3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR had been placed in the public domain for 01 (One) month from the 29.04.2023. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.
7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
8. The distance of PRA / Sand Leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary/ Wildlife Sanctuary / National Park / Eco Sensitive Zone has been verified and certified by the concerned DFOs of the respective Territorial and Wildlife division.
9. A report detailing the presence of aquatic animal in the river in proximity of the proposed PRA / Sand Leases / Ghats is included in the final DSR.
10. The proposed PRA / Sand Leases / Ghats meet the siting criteria of State Pollution Control Board / SEIAA.
11. High resolution color satellite images of the proposed potential sand mining areas are included in final DSR.
12. Bulk density and specific gravity of sand sample data has been provided by NABL accredited laboratory.
13. Cluster and contiguous cluster formation as per EMGSM guidelines, 2020 has been included in the Annexures.
14. Mining is restricted to 3/4th of the river width and 60% of the mineable reserve.
15. Transportation routes for movement of sand are provided in the final DSR.
16. All the annexures as per EMGSM guidelines, 2020 are included in the final DSR.
17. An undertaking with reference to Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter-district or inter-state boundary has been provided.
18. The representative of the Sub Divisional Committee along with the Consultants have affirmed that all the guidelines of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors have been followed in preparation of the final DSR.

The final DSR (sand) of District Ranchi is recommended to SEIAA for approval.

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B. Corrigendum EC letter for Karhiya Stone Deposit of M/s Rajlakshmi Stone Works, Village : Karhiya, Thana : Karon, Distt. : Deoghar, Jharkhand (1.25 Ha). (Proposal No. SIA/JH/MIN/301198 /2023).

The PA's vide online application no. SIA/JH/MIN/ 301198 /2023 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2022-23/2745/2023/438, dated 21.03.2023 with regard to mismatch in the unit of production in the year wise production table, the revised details is being given below :




Year Wise Production Details :

Year	Production of stone (tons)	Production of stone (cum)	Bench RL in Meters
1 st	63261.00	23430.00	208mRL - 202mRL
2 nd	66825.00	24750.00	208mRL - 202mRL
3 rd	68796.00	25480.00	202mRL - 196mRL
4 th	72160.20	26726.00	202mRL - 196mRL
5 th	72160.20	26726.00	196mRL - 190mRL
Total	343202.40	127112.00	

The SEAC considered the same and recommends for issuance of corrigendum EC with corrected details as stated above. Rest other terms & conditions mentioned in the previous EC letter no. EC/SEIAA/2022-23/2745/2023/438, dated 21.03.2023 shall remain the same.

C. Site Visit of Piparwar UG (Phase - I) of 0.87 MTPA in project area of 464.69 Ha of M/s Central Coalfields Limited in Block : Tandwa, Distt. : Chatra, Jharkhand as mandated under ToR condition No. 4(i) of ToR letter issued by MoEF&CC, Govt. of India vide letter no. IA-J-11015/10/2020-IA-II(M), dated 08.06.2020.

Site visit was conducted by the Members of SEAC on 15.06.2023 as per the above ToR condition. The Project Authorities have been asked to appear before the Committee with relevant documents to assess implementation of additional condition for preparation of EIA/EMP.

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Day 2 : June 16th, 2023 [Friday]

Consideration of Proposals

1. Kujam 1 Bauxite Mine of M/s Hindalco Industries Ltd. (HIL), Village : Kujam, Dewragini & Chatam, Taluka : Bishunpur, Dist. : Gumla, Jharkhand (80.87 Ha).

(Proposal No. : SIA/JH/MIN/430452/2023).

The PAs have requested for deferment of the project vide its E-mail dated 14.06.2023. Accordingly, the project is deferred to the next meeting.

2. Prasbani Stone Mine of M/s S.L. Enterprises (Partners : Shri Lalji Sahu & Shri Sarfaraz Ahmad), Mauza : Prasbani, Thana : Nawadih, Thana no. : 97, Sub – Division : Rampur, Distt. : Bokaro, Jharkhand (1.63 Ha).

(Proposal No. : SIA/JH/MIN/ 432725/2023)

Project Category : B2 – Application for Environmental Clearance

EC Application for: Stone : 33354.4Cum Per Annum /90057 Ton Per Annum

Crusher not proposed in Applied Area

DG Set: Not Requirement

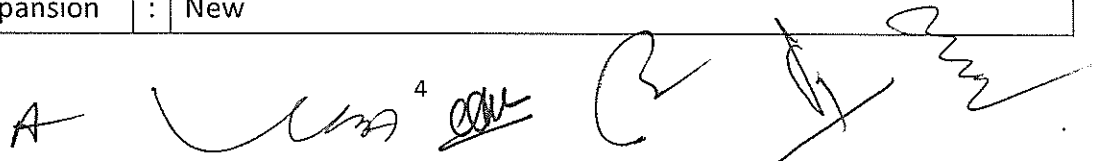
Mobile Crusher: NA

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 16.06.2023.

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Prasbani Stone Mine of M/S S.L. Enterprises
2	Partner's:	: Shri Lalji Sahu & Shri Sarfaraz Ahmad
3	Lease Address	: Mauza Prasbani, Thana no -97, Thana- Nawadih, District- Bokaro State- Jharkhand
4	Lease Area	: Ha: 1.63 Acres: 4.02 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: 38 Lakhs
7	EMP Budget	: Capital: 4.36 Lakhs Recurring: 3.0 Lakh /year
8	New or Expansion	: New

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9	Mineable Reserves	:	Cum:330449	Tonnes: 892213
10	Mine Life	:	10 years	
11	Man power	:	20	
12	Water Requirement	:	Total water requirement is about 7KLD, Drinking water (human) about 1.0, water sprinkling (Source-Near Canal/Water Tanker) about 4.0, Plantation about 2.0 KLD	
13	Water Source	:	The drinking water will be available from nearby village by tractor tank manually by labors at the site.	
14	DG Set / power	:	Not Required	
15	Crusher	:	No	
16	Nearest Water Body	:	Jamunia river is about 3 km in E direction	
17	Nearest Habitation	:	Prasbni village is about 0.8 km in W direction	
18	Nearest Railway Station	:	Telo is about 3.27 km in S	
19	Nearest Airport	:	Bokaro Airport is about 21.45 km in S direction	
20	Nearest Forest	:	NA	
21	Road & Highways	:	Dhamni Road is about 0.3 km in N direction	

CO-ORDINATES

Pillar No.	Latitude	Longitude
1	23°50'10.21"	86°6'53.98"
2	23°50'7.58"	86°6'57.56"
3	23°50'3.98"	86°6'56.78"
4	23°50'4.84"	86°6'53.27"

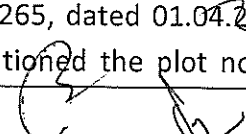
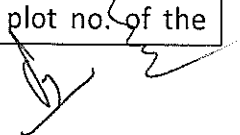
LAND DETAILS :

Khata No.	Plot No.
10	2638
08	2639 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Bokaro vide memo no. 1736/Khanan, dated 17.07.2020.
2	CO	:	The CO, Nawadih (Bokaro) vide letter no. 265, dated 01.04.2019 and letter no. 433, dated 11.09.2020 has mentioned the plot no. of the

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		project is not recorded as "Jungle- Jhari" in R.S. Khatiyar or Register II.
3	DMO	: DMO, Bokaro vide memo no. 2446/Khanan, dated 11.12.2020 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1936, dated 10.11.2020 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	: Division Forest Officer, Bokaro Forest Division vide letter no. 845, dated 08.03.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	: This project is mentioned in District Survey Report (DSR) of Bokaro district in Page No. 63 at Sl. No. 04).
7	Gram Sabha	: Gram Sabha conducted on dated 09.09.2020.
8	Mine Plan Approval	: Deputy Director Mines, Dhanbad Circle, Dhanbad vide Memo No. 225/DDM, dated 03.10.2020.

Working Details

1	Mining Method	: Open Cast, Mechanized	
2	Quarry Area	: 1.22 ha	Life of Mine – 10 years
3	Over Burden	: 05 years–17962 Tonnes	
4	Stripping Ratio	: 1:0.04	
5	Working Days	: 300	
6	Benches: size & No	: 6m x 6m	
7	Elevation of Mine	: 228 AMSL	
8	Ground Level Elevation	: 227 AMSL	
9	Ultimate Working Depth	: 24 m	
10	Water Table	: 192 AMSL (35BGL)	
11	Topography of Mine	: Flat & Slightly undulating land	
12	Explosive Requirement	: 24 Kg/Day	
13	Diesel/Fuel requirement	: 0.733 KL/year (733.0 Liters/day)	

Production Details of Five Years

Year	Production of Stone in Tonnes	Removal of gritty Soil & Weathered rock in Tonnes	Grade
1st	89991	7452	Construction & Road
2nd	90113	6142	Construction & Road
3rd	90059	4368	Construction & Road
4th	90032	Nil	Construction & Road
5th	90091	Nil	Construction & Road
Total	450286	17962	

Land Use

Existing Land Use pattern

LAND USE PATTERN			
Category	Existing	First to Fifth years	After life of mine
	Area in Hectares	Area in Hectares	Area in Hectares
Quarry	0.00	1.22	1.23 Ha (rain water harvesting & Accumulation of water) 892213 Cum.
Haul Road	0.00	0.01	0.00
Proposed Crusher	0.00	0.00	0.00
Green belt in Safety Barrier	0.00	0.40	0.40
Dump with Parapet wall & Garland drain	0.00	0.00	0.00
Total area in use	0.00	1.63	1.63
Balance unused area	0.00	0.00	0.00
Balanced used area	0.00	0.00	0.00
Total existing Area	1.63	1.63	1.63

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No. of Trees
1	Safety Zone	: 0.40 Ha	910 trees @ 2275 trees per ha
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 100Mtr	80

- 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 &

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Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- There is waste to be generated 10% Mine waste will be generated, during life of mine which will be reclaimed after life of mine.

Water Quality Management



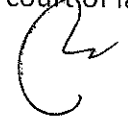
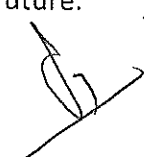

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 07 m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask etc shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

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.

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- 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.

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 Prasbani Stone Mine of M/s S.L. Enterprises (Partners : Shri Lalji Sahu & Shri Sarfaraz Ahmad), Mauza : Prasbani, Thana : Nawadih, Thana no. : 97, Sub – Division : Rampur, Distt. : Bokaro, Jharkhand (1.63 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

3. Gasedag Stone Mine of M/s Trideo Stone Mines, Mauza : Gasedag, Thana : Ranka, Thana no. : 105, Distt. : Garhwa, Jharkhand (2.80 Ha).

(Proposal No. : SIA/JH/MIN/ 432426/2023)

Project Category : B2 – Application for Stone Quarry

EC Application for: Stone: 64080 Cum Per Annum /179424 Ton Per Annum
Crusher will be installed inside the lease Area
DG Set: Required 100kv

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 16.06.2023.

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Project and Location Details :

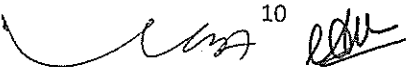
Sl	Parameter	Details
1	Project Name	: Gasedag Stone Mine (M/S Trideo Stone Mines)
2	Partner's:	: Satyendra Kumar Chaurasiya
3	Lease Address	: Mauza- Gasedag, Thana no -105, Thana- Ranka, District- Garhwa State- Jharkhand
4	Lease Area	: Ha: 2.80 ha Acres: 6.91 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: 43 Lakhs
7	EMP Budget	: Capital: 6.14 lakh Recurring: 20 Lakh /year
8	New or Expansion	: New
9	Mineable Reserves	: Cum: 640715 Tonnes: 1794002
10	Mine Life	: 10 years
11	Man power	: 20
12	Water Requirement	: Total water requirement is about 6.90 KLD, Drinking water (human) about 0.90 , water sprinkling (Source-Near Canal/Water Tanker) about 3.0, Plantation about 3.0 KLD
13	Water Source	: The drinking water will be available from nearby village by tractor tank manually by labors at the site.
14	DG Set / power	: Not Required
15	Crusher	: Mobile Crusher
16	Nearest Water Body	: Tahle River is about 0.75 km in East direction
17	Nearest Habitation	: Gasedag is about 0.80 km in SW direction
18	Nearest Rail Station	: DaltonGanj railway Station is about 27.02 km in NE direction
19	Nearest Airport	: Birsa Munda Ranchi Airport 164.39 km ESE direction
20	Nearest Forest	: Kasmar Protected forest is about 2.44 km in ESE direction
21	Road & Highways	: Ranka Ramkandaa road is about 1.02 km in WSW direction NH -343 IS About 9.60 km in NW direction

CO-ORDINATES :

1	23°54'16.27"N	83°50'44.57"E
2	23°54'18.40"N	83°50'46.54"E
3	23°54'19.97"N	83°50'43.81"E
4	23°54'17.97"N	83°50'42.29"E

LAND DETAILS :

Khata No.	Plot No.
234	413 & 416 (P)

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STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by Assistant Mining Officer, Garhwa vide letter no. 505/M, dated 20.04.2023.
2	CO	:	The CO, Ranka vide letter no. 40, dated 01.02.2023 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	AMO, Garhwa vide memo no. 711/M, dated 31.05.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	Deputy Director, Palamu Tiger Project, North Division, Medininagar vide letter no. : 253, dated 01.03.2023 certified that the proposed project site is outside Eco Sensitive Zone of Palamu Wildlife Sanctuary, Betla National Park and Mahuadanr Wolf Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Garhwa South Division vide letter no. 395, dated 13.02.2023 certified that the distance of notified protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC – cum – District Magistrate, Garhwa vide letter no. 629/M, dated 16.05.2023 has informed that this project is part of District Survey Report (DSR) of Garhwa district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Ranka vide letter no. 348, dated 13.04.2023 informed that Gram Sabha conducted on dated 12.04.2023.
8	Mine Plan Approval	:	Assistant Mining Officer, Garhwa vide Memo No. 697 MO, dated 30.05.2023.

Working Details

1	Mining Method	:	Open Cast, Mechanized
2	Quarry Area	:	2.21-ha : Life of Mine – 10 years
3	Waste Generation	:	05 years– 13093 Cu.M
4	Stripping Ratio	:	1:0.01
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	370 AMSL
8	Ground Level Elevation	:	369 AMSL
9	Ultimate Working Depth	:	24 m

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10	Water Table	:	333 AMSL (35BGL)
11	Topography of Mine	:	Flat land
12	Explosive Requirement	:	88 Kg/Day
13	Diesel/Fuel requirement	:	0.733 KL/year (733.0 Liters/day)

Production Details of Five Years

Year	Generation of waste/O.B in Cum	Production of stone in (Cum)	Production of stone in (Ton)	Grade/Uses
1st	9242	64076	179413	Crusher
2nd	3851	64042	179318	Crusher
3rd	00	64046	179329	Crusher
4th	00	64080	179424	Crusher
5th	00	64064	179379	Crusher
(A)	13093	320308	896863	

Land Use :

LAND USE PATTERN			
Category	Existing	First to Fifth years	After life of mine
	Area in Hectares	Area in Hectares	Area in Hectares
Quarry	0.00	2.17	2.23 Ha (rain water harvesting & Accumulation of water) 640715 Cum.
Haul Road	0.00	0.02	0.00
Proposed Crusher	0.00	0.04	Remove from lease area
Green belt in Safety Barrier	0.00	0.57	0.57
Dump with Parapet wall & Garland drain	0.00	0.00	0.00
Total area in use	0.00	2.80	2.80
Balance unused area	0.00	0.00	0.00
Balanced used area	0.00	0.00	0.00
Total existing Area	2.80	2.80	2.80

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No. of Trees
1	Safety Zone	0.57 Ha	912 trees @ 1600 trees per ha
2	Other Reclaimed Area	NIL	NIL

3	Haul /Approach Road	:	500 Mtr	400 Plants
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- 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.

Solid Waste Management

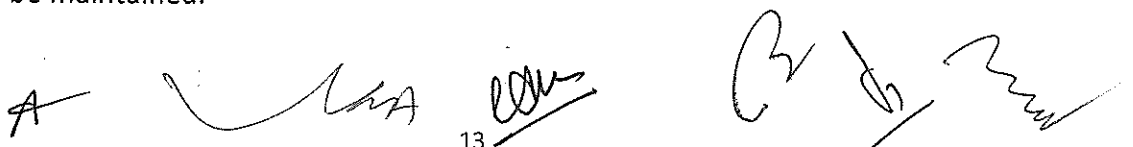
- There is waste to be generated 10% Mine waste will be generated, during life of mine which will be reclaimed after life of mine.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 07 m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.



- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask etc shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

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.

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 Gasedag Stone Mine of M/s Trideo Stone Mines, Mauza : Gasedag, Thana : Ranka, Thana no. : 105, Distt. : Garhwa, Jharkhand (2.80 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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4. Barakotha Stone Mine of M/s Barakotha Stone Mines (Partners : Shri Ajit Anand & Shri Jatu Pahariya), Village : Barakotha, Panchayat : Babupur, Block : Boarjor, P.O. : Lohandia Bazar, P.S. : Lalmatia, Distt. : Godda, Jharkhand (1.008 Ha).

(Proposal No. : SIA/JH/MIN/432631/2023).

Project Category : B2 – Application for Environment Clearance

EC Application for : 26,358 Cum / year (max)

Overburden: 8,800 Cum. during plan period.

DG Set: NA




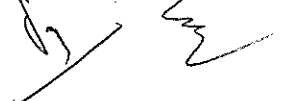
Crusher- Not proposed

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

This is a new project which has been taken for appraisal on 16.06.2023.

PROJECT and LOCATION Details:

Sl.	Parameter	Details
1	Project Name	: Barakotha Stone Mine Project Type – Stone Mine
2	Lessee:	: M/S Barakotha Stone Mines Partners- 1. Shri Ajit Aand 2. Shri JatuPahariya
3	Lease Address	: Village- Barakotha, Thana No.- 59, Thana- Lalmatia, District- Godda, Jharkhand
4	Lease Area	: Ha: 1.008 Acres: 2.49
5	Type of Land	: Non-Forest – Raiyati Land
6	Project Cost	: 84 Lakhs
7	EMP Budget	: Capital: Rs. 4.15Lakhs Recurring: Rs. 1.54 Lakhs/ year
8	CSR / CER Budget	: NA
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 1,14,305.1 Tonnes: 3,08,623.77
11	Mine Life	: 5.39 years only.
12	Manpower	: 20Person
13	Water Requirement	: 7.33 KLD (Drinking:0.30 KLD, Dust Suppression: 2.88KLD, Plantation: 4.15KLD)
14	Water Source	: Water will be sourced from near by Abandon Mine and Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.
15	DG Set / power	: Nil.
16	Crusher	: Not Applicable
17	Nearest Water	: Gerua River – 24 km- WEST

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	Body		
18	Nearest Habitation	:	Boarijor Block
19	Nearest Rail Station	:	Mirzacheuki Railway station – 26.34 km –NE
20	Nearest Airport	:	Ranchi International Airport – 284 km-SW
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 1564 Dt- 27.08.2019
22	Road & Highways	:	Lalmatia Borijor Road-0.18 km- North

CO-ORDINATES :

Corner Point	Latitude	Longitude
1	25°2'6.11"N	87°24'24.68"E
2	25°2'6.50"N	87°24'26.34"E
3	25°2'4.67"N	87°24'26.87"E
4	25°2'3.99"N	87°24'26.47"E
5	25°2'3.73"N	87°24'27.00"E
6	25°2'0.53"N	87°24'25.32"E
7	25°2'1.19"N	87°24'24.13"E
8	25°2'1.45"N	87°24'23.92"E
9	25°2'1.60"N	87°24'24.63"E
10	25°2'4.84"N	87°24'25.15"E
11	25°2'4.91"N	87°24'25.12"E
12	25°2'5.36"N	87°24'24.13"E

LAND DETAILS :

Khata No.	32	49
Plot No.	295, 296, 302	303

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Godda vide memo no. 254/M, dated 24.02.2020.
2	CO	:	The CO, Boarijore vide letter no. 528/Ra, dated 27.09.2019 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyon or Register II.

3	DMO	:	DMO, Godda vide memo no. 99/M, dated 22.01.2021 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1937, dated 14.09.2019 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Godda Forest Division vide letter no. 1564 dated 27.08.2019 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	This project is mentioned in District Survey Report (DSR) of Godda district in Page No. 54 at Sl. No. 04).
7	Gram Sabha	:	Gram Sabha conducted on dated 16.09.2016.
8	Mine Plan Approval	:	Deputy Director Mines, Santhal Pargana Circle, Dumka vide Memo No. 304/DDM, dated 15.10.2020.

WORKING DETAILS :

1	Mining Method	:	Opencast Semi-Mechanized Mining
2	Quarry Area	:	Plan period - 0.704 Ha. Conceptual stage -0.716 Ha.
3	Waste Generation	:	Plan Period :8,800 Cum. Conceptual Stage -8,800Cum.
4	Stripping Ratio	:	1:0.08
5	Working Days	:	300 days/year
6	Benches: size & No	:	3m x 3m, No. of benches -8
7	Elevation of Mine	:	153 – 151 AMSL
8	Ground Level Elevation	:	151 AMSL
9	Ultimate Working Depth	:	130 AMSL
10	Water Table	:	121 MSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	30 Kg Slurry explosives/day
13	Diesel/Fuel requirement	:	HSD – 956 liters / day (286.8 KL/year)

PRODUCTION DETAILS :

Years	Production In Cum/Year	O.B Production in cum. /Year	Production In Tons/Year	Bench RL in meters
1st	25122	8800	67829.4	96 – 95 (O.B.) 95 – 92 (Stone)

2nd	21432	-	57866.4	92 – 89 (Stone)
3rd	17958	-	48486.6	89 – 86 (Stone)
4 th	26358	-	71166.6	86 – 83 (Stone) 83 – 80 (Stone)
5 th	15054	-	40645.8	80 – 77 (Stone) 77 – 74 (Stone)
Total	105924	8800	285994.8	Depth – 22 m

LAND USE

Existing Land Use pattern

Category	Area in Ha.
Mining Area	0.00
Office	0.00
Dump	0.00
Road	0.00
Garland Drain	0.00
Safety Zone	0.00
Settling Tank	0.00
Unutilied	1.008
Total	1.008

Land Use Pattern for Current Plan Period:

Category	Area in Ha.
Mining Area	0.704
Road	0.012
Safety Zone	0.284
Garland Drain/ Settling Tank	0.008
Total	1.008

Land Use Pattern after Life of the Mine:

Category	Area in Ha.
Mining Area+ Road	0.716(water body)
Safety Zone	0.284(plantation)
Garland Drain/ Settling Tank	0.008
Total	1.008

ENVIRONMENT MANAGEMENT

Green Belt Development

Sl. No.	Location	Area/Length	No of Trees
1	Green Belt & Other reclaimed area	0.284 Ha	710
2	Haul /Approach Road	0.18 Km.	120 Trees both side approach road.

- 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.

Solid Waste Management

- Overburden Generation will be 8,800 cum during the plan period. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:




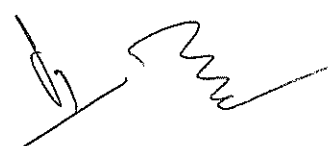
- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

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

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable.

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.

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- 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.

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 Barakotha Stone Mine of M/s Barakotha Stone Mines (Partners : Shri Ajit Anand & Shri Jatu Pahariya), Village : Barakotha, Panchayat : Babupur, Block : Boarigor, P.O. : Lohandia Bazar, P.S. : Lalmatia, Distt. : Godda, Jharkhand (1.008 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

5. Putkadih Stone Deposit of M/s Jharkhand Stone Works (Partners : Shri Radha Nath Soren & Shri Somar Nayak), Mauza : Putkadih, P.O. : Putkadih, Thana : Petarwar, Distt. : Bokaro, Jharkhand (0.81 Ha).

(Proposal No. : SIA/JH/MIN/432342/2023).





Project Category :B2 – Application for Environment Clearance

EC Application for : 6610 cum / year (max)

Overburden:1394 Cum. during plan period.

DG Set: NA

Crusher- Not proposed

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

This is a new project which has been taken for appraisal on 16.06.2023.

Project and Location Details :

Sl.	Parameter		Details
1	Project Name	:	Putkadih Stone Mine Project Type – Stone Mine
2	Lessee:	:	M/S Jharkhand Stone Works Partners- 3. Shri Radha Nath Soren 4. Shri Somar Nayak
3	Lease Address	:	Village-Putkadih, Thana No.- 37, Thana- Petarwar, District- Bokaro , Jharkhand
4	Lease Area	:	Ha:0.81 Acres:2.00
5	Type of Land	:	Non-Forest – Raiyati Land
6	Project Cost	:	46.06Lakhs
7	EMP Budget	:	Capital: Rs. 7.50Lakhs Recurring: Rs. 1.64Lakhs/ year
8	CSR / CER Budget	:	NA
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:65,818.18 Tonnes:1,77,709
11	Mine Life	:	10 years only.
12	Manpower	:	46 Person
13	Water Requirement	:	22.59 KLD (Drinking:0.69 KLD, Dust Suppression: 14.4KLD, Plantation: 7.5 KLD)
14	Water Source	:	Water will be sourced from near by Abandon Mine and Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.
15	DG Set / power	:	Nil.
16	Crusher	:	Not Applicable
17	Nearest Water Body	:	Tenughat Reservoir – 4 Km in NW direction Damodar River – 5.40 Km in NW direction.
18	Nearest Habitation	:	Phutkadih Village
19	Nearest Rail Station	:	Chandrapura Junction – 27.50 km – NE
20	Nearest Airport	:	Ranchi International Airport – 68.40 km-W
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 1721 Dt- 07.09.2015
22	Road & Highways	:	Tenughat Dam Road – 0.90 Kms. In west direction.

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CO-ORDINATES :




Corner Point	Latitude	Longitude
1	23°41'24.2" N	85°51'29.1" E
2	23°41'23.3" N	85°51'30.7" E
3	23°41'19.4" N	85°51'28.2" E
4	23°41'20.1" N	85°51'26.2" E

LAND DETAILS :

Khata No.	01
Plot No.	203 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by Assistant Mining Officer, Bokaro vide letter no. 4132/Khanan, dated 26.08.2016.
2	CO	:	The CO, Peterwar vide memo no. 448, dated 08.05.2023 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyar or Register II.
3	DMO	:	DMO, Bokaro vide memo no. 66/Khanan, dated 18.01.2021 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 20, dated 06.01.2021 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Bokaro Forest Division vide letter no. 1721 dated 07.09.2015 certified that the distance of reserved / protected forest is more than 515 m from proposed project site.
6	DSR	:	This project is mentioned in District Survey Report (DSR) of Bokaro district in Page No. 66 at Sl. No. 14).
7	Gram Sabha	:	Pradhan, Ulgara vide letter no. 304, dated 27.01.2022 informed that Gram Sabha conducted on dated 27.01.2022.
8	Mine Plan Approval	:	Deputy Director Mines, Dhanbad Circle, Dhanbad vide Memo No. 496/DDM, dated 29.09.2016.

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WORKING DETAILS :

1	Mining Method	:	Manual Mining
2	Quarry Area	:	Plan period - 0.45 Ha. Conceptual stage -0.45Ha.
3	Waste Generation	:	Plan Period :1394 Cum. Conceptual Stage -1394Cum.
4	Stripping Ratio	:	1:0.02
5	Working Days	:	300 days/year
6	Benches: size & No	:	1.5 m x 1.5 m, No. of benches -12
7	Elevation of Mine	:	291– 289.5 AMSL
8	Ground Level Elevation	:	289.5 AMSL
9	Ultimate Working Depth	:	273 AMSL
10	Water Table	:	195 AMSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	Not required (Manual Mining Proposed)
13	Diesel/Fuel requirement	:	HSD – 252 liters / day (75.6 KL/year)

PRODUCTION DETAILS :

Years	Production In Cum/Year	O.B Production in cum. /Year	Production In Tons/Year	Bench RL in meters
1st	6610	1394	17847	239 mRL to 235 m RL
2nd	6571.85	0	17744	235 m R.L to 233.50m R.L. (A-A') 237 m R.L to 235 (B-B'); 235 m R.L to 233.50m R.L. (C-C')
3rd	6597.41	0	17813	235m RL to 232m RL (A-A') 235m RL to 233.50m RL (B-B'); 235m RL to 232m RL (C-C-C')
4 th	6583.70	0	17776	233.50 m RL to 232 (A-A'); 233.50 m RL to 230.50 (B-B') 233.50 m RL to 232 mRL (C-C')
5 th	6539.26	0	17656	232 m R.L to 229m R.L. (A-A') 232 m RL to 230.50 (B-B') 232 m RL to 230.50 mRL (C-C')
Total	32902.22	1394	88836	Depth- 8.5 m

LAND USE

Existing Land Use pattern

Category	Area in Ha.
Quarry/Pit	0.00
West Dump	0.00

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Mine Road	0.00
Infrastructure	0.00
Green Belt	0.00
Unutilized	0.81
Total	0.81

Land Use Pattern for Current Plan Period:

Category	Area in Ha.
Quarry/Pit	0.45
West Dump	0.001
Mine Road	0.001
Infrastructure	0.00
Safety Zone	0.22
Unutilized	0.138
Total	0.81

Land Use Pattern after Life of the Mine:



Category	Area in Ha.
Quarry/Pit	0.45 (Water Body)
Safety Zone + Waste Dump+ Mine Road+ Area Unused	0.36 (Plantation)
Unutilized	0.00
Total	0.81

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Green Belt & Other reclaimed area	: 0.36 Ha	900
2	Haul /Approach Road	: 0.90Km.	600Tree both side approach road.

- 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.

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Solid Waste Management

- Overburden Generation will be 1394cum during the plan period. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:




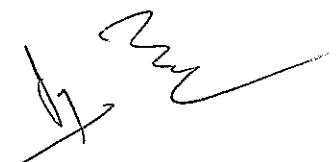
- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

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

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable.

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.

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- 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.

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 Putkadih Stone Deposit of M/s Jharkhand Stone Works (Partners : Shri Radha Nath Soren & Shri Somar Nayak), Mauza : Putkadih, P.O. : Putkadih, Thana : Petarwar, Distt. : Bokaro, Jharkhand (0.81 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Bhalsumbhiya Stone Mine of M/s Dilip Buildcon Limited (Bhopal), Mauza : Bhalsumbhiya, Thana no. : 190, Thana : Bhalsumbhiya, Distt. : Godda, Jharkhand (2.43 Ha).

(Proposal No. : SIA/JH/MIN/433134/2023).

Project Category : B2 – Application for Environment Clearance

EC Application for : 1,42,375cum / year (max)

Overburden: 60,690 Cum. during plan period.

DG Set: NA

Crusher- Not proposed

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

This is a new project which has been taken for appraisal on 16.06.2023.

Project and Location Details :

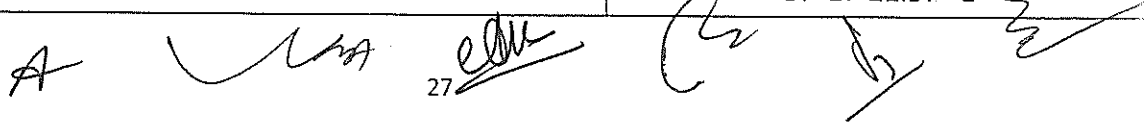
Sl.	Parameter	Details
1	Project Name	: Bhalsumbhiya Stone Mine Project Type – Stone Mine
2	Lessee:	: Dilip Buildcon Limited (Bhopal) Representative - Shri Vikram Kumar Singh
3	Lease Address	: Village- Bhalsumbhiya, Thana No.- 190, Thana- Bhalsumbhiya, District- Godda , Jharkhand
4	Lease Area	: Ha: 2.43 Acres: 6.00
5	Type of Land	: Non-Forest – Raiyati Land
6	Project Cost	: 197.45 Lakhs
7	EMP Budget	: Capital: Rs. 8.595 Lakhs Recurring: Rs. 1.54 Lakhs/ year
8	CSR / CER Budget	: NA
9	New or Expansion	: New

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10	Mineable Reserves	:	Cu.M.:4,26,870	Tonnes:11,52,550
11	Mine Life	:	3 years only.	
12	Manpower	:	33Person	
13	Water Requirement	:	9.74KLD (Drinking: 0.50KLD, Dust Suppression: 0.64KLD, Plantation: 8.60KLD)	
14	Water Source	:	Water will be sourced from near by Abandon Mine and Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.	
15	DG Set / power	:	Nil.	
16	Crusher	:	Not Applicable	
17	Nearest Water Body	:	Sapini Nadi – 1.01 km North	
18	Nearest Habitation	:	Ramgarh Village – 720 m North	
19	Nearest Rail Station	:	Kumradol Railway station at 35.86 km SW direction.	
20	Nearest Airport	:	Birsra Munda Airport, Ranchi, 280 km SW direction.	
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 46 dated 12.01.2023	
22	Road & Highways	:	NH-133, at 3.26 km West Direction.	

CO-ORDINATES

Corner Point	Latitude	Longitude
1	24°54'40.09" N	87°17'21.66" E
2	24°54'42.47" N	87°17'18.62" E
3	24°54'43.36" N	87°17'17.36" E
4	24°54'43.78" N	87°17'17.36" E
5	24°54'44.41" N	87°17'16.85" E
6	24°54'45.32" N	87°17'17.22" E
7	24°54'45.51" N	87°17'16.84" E
8	24°54'46.69" N	87°17'17.53" E
9	24°54'47.54" N	87°17'18.90" E
10	24°54'46.22" N	87°17'21.39" E
11	24°54'45.70" N	87°17'22.28" E
12	24°54'44.77" N	87°17'24.08" E
13	24°54'43.47" N	87°17'23.65" E
14	24°54'42.97" N	87°17'23.17" E
15	24°54'41.58" N	87°17'21.73" E
16	24°54'41.47" N	87°17'21.80" E
17	24°54'41.07" N	87°17'21.57" E







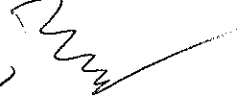
18	24°54'40.40" N	87°17'21.78" E
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LAND DETAILS :

Khata No.	Plot No.
23	567, 568, 569 (P), 680 (P), 751, 752 & 753
38	681
21	683
18	682

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (Loi) has been issued by District Mining Officer, Godda vide memo no. 762/M, dated 24.05.2023.
2	CO	:	The CO, Pathargama vide letter no. 778/Ra, dated 07.12.2022 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyar or Register II.
3	DMO	:	DMO, Godda vide memo no. 837/M, dated 12.06.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 729, dated 10.04.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Godda Forest Division vide letter no. 46, dated 12.01.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	This project is mentioned in District Survey Report (DSR) of Godda district in Page No. 57 at Sl. No. 08).
7	Gram Sabha	:	Gram Sabha conducted on dated 02.08.2022.
8	Mine Plan Approval	:	Deputy Director Mines, Santhal Pargana Circle, Dumka vide Memo No. 289/DDM, dated 13.06.2023.

A  28    

WORKING DETAILS

1	Mining Method	:	Open Cast Mechanized Mining	
2	Quarry Area	:	Plan period –1.95 Ha.	Conceptual stage – 1.95Ha.
3	Waste Generation	:	Plan Period : 60,690 Cum.	Conceptual Stage –60,690Cum.
4	Stripping Ratio	:	1:0.1	
5	Working Days	:	300 days/year	
6	Benches: size & No	:	6 m x 6 m, No. of benches -7	
7	Elevation of Mine	:	138 AMSL	
8	Ground Level Elevation	:	138 AMSL	
9	Ultimate Working Depth	:	100 AMSL	
10	Water Table	:	73 AMSL	
11	Topography of Mine	:	Flat area	
12	Explosive Requirement	:	128 Kg Slurry explosives/day	
13	Diesel/Fuel requirement	:	HSD – 2080 liters / day (624 KL/year)	

PRODUCTION DETAILS

Years	Production In Cum/Year	O.B Production in cum. /Year	Production In Tons/Year	Bench RL in meters
1st	129880	60690	350676	A-A': 84-78 (O.B.) A-A': 78 – 72 (Stone) A-A': 72 – 66 (Stone)
2nd	142375	0	384413	A-A': 72 – 66 (Stone) A-A': 66 – 60 (Stone) A-A': 60 – 54 (Stone)
3rd	93925	0	253598	A-A': 54 – 48 (Stone) A-A': 48 – 42 (Stone)
Total	366180	60690	988687	Depth – 42 m

LAND USE

Existing Land Use pattern

Category	Area in Acres
Mining Activities	0.00
Offices/ Store /crusher/ Magazine etc.	0.00
Dumping	0.00
Mining Road	0.00
Garland drain	0.00
Green belt/Safety Zone	0.00

Stone Stock yards	0.00
Unutilized	6.00
Total	6.00

Land Use Pattern for Current Plan Period:

Category	Area in Acres
Mining Activities	4.82
Mining Road	0.01
Garland drain	0.15
Green belt/Safety Zone	1.02
Stone Stock yards	0.00
Unutilized	0.00
Total	6.00

Land Use Pattern after Life of the Mine:

Category	Area in Acres
Mining Activities + Mining Road	4.83(Water Body)
Garland drain	0.15
Green belt/Safety Zone	1.02 (Plantation)
Total	6.00

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Green Belt & Other reclaimed area	0.41Ha	1025
2	Haul /Approach Road	0.04Km.	667Tree both side approach road.

- 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.

30



Solid Waste Management

- Overburden Generation will be 60,690 cum during the plan period. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

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

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

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable

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.

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 Bhalsumbhiya Stone Mine of M/s Dilip Buildcon Limited (Bhopal), Mauza : Bhalsumbhiya, Thana no. : 190, Thana : Bhalsumbhiya, Distt. : Godda, Jharkhand (2.43 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Bhatondha Stone Mine of M/s Dilip Buildcon Limited , Mauza : Bhatondha, P.S. : Podaiyahat, Distt. : Godda, Jharkhand (3.00 Ha).

(Proposal No. : SIA/JH/MIN/432892/2023).



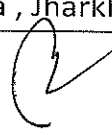


Project Category : B2 – Application for Environment Clearance
 EC Application for : 3,02,206 cum / year (max)
 Overburden: 23,320 Cum. during plan period.
 DG Set: NA
 Crusher- Not proposed

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

This is a new project which has been taken for appraisal on 16.06.2023.

Project and Location Details :

Sl.	Parameter	Details
1	Project Name	: Bhatondha Stone Mine Project Type – Stone Mine
2	Lessee:	: M/S Dilip Buildcon Limited Representative - Shri Vikram Kumar Singh
3	Lease Address	: Village- Bhatondha, Thana No.- 50, Thana- Bhatondha, District- Godda , Jharkhand

A  32.    

4	Lease Area	:	Ha:3.00	Acres:7.40
5	Type of Land	:	Non-Forest – Raiyati Land	
6	Project Cost	:	195.8Lakhs	
7	EMP Budget	:	Capital: Rs. 13.06Lakhs	Recurring: Rs. 1.74Lakhs/ year
8	CSR / CER Budget	:	NA	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.:6,32,502	Tonnes:17,07,755
11	Mine Life	:	3 years only.	
12	Manpower	:	57Person	
13	Water Requirement	:	20.8KLD (Drinking:0.86KLD, Dust Suppression: 6.88KLD, Plantation: 13.06KLD)	
14	Water Source	:	Water will be sourced from near by Abandon Mine and Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.	
15	DG Set / power	:	Nil.	
16	Crusher	:	Not Applicable	
17	Nearest Water Body	:	Behraja Nadi – 2.75 km- NW	
18	Nearest Habitation	:	Godda town – 9.20 Km – N	
19	Nearest Rail Station	:	Kathoun Railway station – 3.45 km – North-West	
20	Nearest Airport	:	Birsa Munda Airport, Ranchi, 245 km SW direction.	
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 1479 Dt- 19-10-2022	
22	Road & Highways	:	Cart Road – 0.43 Km – South-West NH-133 – 1.67 Km – South-West	

CO-ORDINATES

Corner Point	Latitude	Longitude
1	24°44'28.67" N	87°12'39.09" E
2	24°44'29.00" N	87°12'38.77" E
3	24°44'28.77" N	87°12'38.62" E
4	24°44'29.03" N	87°12'37.71" E
5	24°44'29.02" N	87°12'37.05" E
6	24°44'28.78" N	87°12'36.86" E
7	24°44'29.19" N	87°12'35.92" E
8	24°44'29.91" N	87°12'34.55" E
9	24°44'30.39" N	87°12'35.12" E
10	24°44'31.53" N	87°12'35.37" E
11	24°44'31.41" N	87°12'35.92" E

12	24°44'32.91" N	87°12'36.25" E
13	24°44'32.80" N	87°12'36.75" E
14	24°44'33.06" N	87°12'36.90" E
15	24°44'33.89" N	87°12'36.97" E
16	24°44'34.90" N	87°12'37.31" E
17	24°44'35.25" N	87°12'36.96" E
18	24°44'36.18" N	87°12'37.42" E
19	24°44'36.67" N	87°12'37.53" E
20	24°44'36.57" N	87°12'38.18" E
21	24°44'37.13" N	87°12'38.60" E
22	24°44'36.88" N	87°12'39.73" E
23	24°44'37.46" N	87°12'39.72" E
24	24°44'37.57" N	87°12'40.29" E
25	24°44'37.41" N	87°12'41.15" E
26	24°44'35.90" N	87°12'41.13" E
27	24°44'33.62" N	87°12'40.92" E
28	24°44'31.23" N	87°12'40.59" E

LAND DETAILS :

Khata No.	Plot No.
115	4271
157	4273, 4274, 4275, 4276, 4277, 4278, 4279, 4280, 4281, 4282, 4283, 4284, 4285, 4286, 4287, 4288, 4289, 4290, 4291, 4298 & 4319 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Godda vide memo no. 150/M, dated 06.02.2023.
2	CO	:	The CO, Poraiyahat vide letter no. 890/Ra, dated 06.10.2022 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyon or Register II.
3	DMO	:	DMO, Godda vide memo no. 838/M, dated 12.06.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 728, dated 10.04.2023 certified that the proposed project site is outside Eco Sensitive Zone of

A  34    

			Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Godda Forest Division vide letter no. 1479, dated 19.10.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	This project is mentioned in District Survey Report (DSR) of Godda district in Page No. 55 at Sl. No. 07).
7	Gram Sabha	:	Gram Sabha conducted on dated 19.07.2022.
8	Mine Plan Approval	:	Deputy Director Mines, Santhal Pargana Circle, Dumka vide Letter No. 290/DDM, dated 13.06.2023.

WORKING DETAILS

1	Mining Method	:	Open Cast Mechanized Mining
2	Quarry Area	:	Plan period –1.97 Ha. Conceptual stage – 1.97 Ha.
3	Waste Generation	:	Plan Period : 23,320 Cum. Conceptual Stage –23,320Cum.
4	Stripping Ratio	:	1:0.03
5	Working Days	:	300 days/year
6	Benches: size & No	:	5 m x 5 m, No. of benches -8
7	Elevation of Mine	:	198 AMSL
8	Ground Level Elevation	:	198 AMSL
9	Ultimate Working Depth	:	164 AMSL
10	Water Table	:	73 AMSL
11	Topography of Mine	:	Undulating Surface
12	Explosive Requirement	:	105.9 Kg/day
13	Diesel/Fuel requirement	:	HSD – 2512 liters / day (753.6 KL/year)

PRODUCTION DETAILS :

Years	Production In Cum/Year	O.B Production in Cum/Year	Production In Tons/Year	Bench RL in meters
1st	302206	23320	815956	141-126
2nd	164194	-	443324	126-116

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3rd	142676	-	385225	116-106
Total	609076	23320	1644505	Depth – 35 m

LAND USE

Existing Land Use pattern

SL	Pattern	Existing Land Use (Ha)
1	Mining Area	0.00
2	Office	0.00
3	Dump	0.00
4	Road	0.00
5	Garland Drain	0.00
6	Safety Zone	0.00
7	Settling Tank	0.00
8	Unutilized	3.00
	TOTAL	3.00

Land Use Pattern for Current Plan Period:

SL	Pattern	Proposed Current Plan Period (Ha)
1	Mining Area	1.97
2	Office	0.01
3	Dump	0.06
4	Road	0.02
5	Safety Zone	0.50
6	Garland Drain	0.06
7	Settling Tank	0.02
8	Unutilized	0.36
	TOTAL	3.00

Land Use Pattern after Life of the Mine:

SL	Pattern	Proposed Land Use at End of Life of Mine (Ha)
1	Mining Area + Road	1.99 (Water Body)
2	Office +Dump+ Safety	0.93 (Plantation)

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36

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	Zone+ Unutilized	
3	Garland Drain/ Settling Tank	0.08
	TOTAL	3.00

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Green Belt & Other reclaimed area	:	0.93Ha	2325
2	Haul /Approach Road	:	0.43Km.	287Tree both side approach road.

- 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.

Solid Waste Management

- Overburden Generation will be 23320 cum during the plan period. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

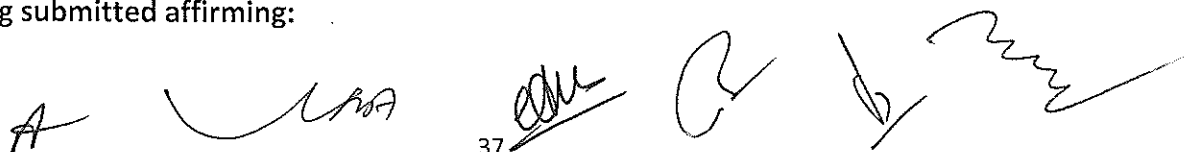
Air and Noise Pollution Control Measures:

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

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

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable.

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.

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 Bhatondha Stone Mine of M/s Dilip Buildcon Limited , Mauza : Bhatondha, P.S. : Podaiyahat, Distt. : Godda, Jharkhand (3.00 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

8. Salbona Pahar Stone Mine of Smt. Mini Hansda, Mauza : Salbona Pahar, Thana no. : 07, Thana : Shikaripara, Distt. : Dumka, Jharkhand (1.87 Ha).

(Proposal No. : SIA/JH/MIN /433228/2023).






Project Category :B2 – Application for Environment Clearance

EC Application for : 33,385cum / year (max)

Overburden:48,800 Cum. during plan period.

DG Set: NA

Crusher- Notproposed



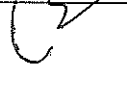


A  38    

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

This is a new project which has been taken for appraisal on 16.06.2023.

Project and Location Details :

Sl.	Parameter	Details
1	Project Name	: Salbona Pahar Stone Mine Project Type – Stone Mine
2	Lessee:	: Smt. Mini Hansda
3	Lease Address	: Village- SalbonaPahar, Thana No.- 7, Thana- Shikaripara, District- Dumka , Jharkhand
4	Lease Area	: Ha:1.87 Acres:4.62
5	Type of Land	: Non-Forest – Raiyati Land
6	Project Cost	: 83.05Lakhs
7	EMP Budget	: Capital: Rs. 10.94Lakhs Recurring: Rs. 1.54Lakhs/ year
8	CSR / CER Budget	: NA
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.:2,39,503.5 Tonnes:6,46,659.45
11	Mine Life	: 7.18 years only.
12	Manpower	: 28Person
13	Water Requirement	: 23.04KLD (Drinking:0.42KLD, Dust Suppression: 11.68KLD, Plantation: 10.94KLD)
14	Water Source	: Water will be sourced from near by Abandon Mine and Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.
15	DG Set / power	: Nil.
16	Crusher	: Not Applicable
17	Nearest Water Body	: BrahmaniNadi – 6.85 km North
18	Nearest Habitation	: Benagaria VILLAGE – 4.18 km East
19	Nearest Rail Station	: SHIKARIPARA- 12 KM – NW PINARGARIA – 7.63 KM – NW
20	Nearest Airport	: Birsa Munda Airport, Ranchi, 384 km SW direction.
21	Nearest Forest	: More than 250 m, as per forest division. Letter no – 3599 Dt- 05-11-2019
22	Road & Highways	: NH-114 A – 3.21 km North NH – 60 – 16.08 km South East

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CO-ORDINATES



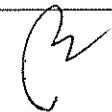

Corner Point	Latitude	Longitude
1	24 ^o 11'8.29" N	87 ^o 34'2.98" E
2	24 ^o 11'6.72" N	87 ^o 34'8.47" E
3	24 ^o 11'4.60" N	87 ^o 34'9.77" E
4	24 ^o 11'2.27" N	87 ^o 34'8.08" E
5	24 ^o 11'3.88" N	87 ^o 34'5.73" E
6	24 ^o 11'4.87" N	87 ^o 34'5.78" E
7	24 ^o 11'6.97" N	87 ^o 34'2.85" E

LAND DETAILS :

Khata No.	Plot No.
08	276
16	278 (P)
27	277 (P)
42	275

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (Lol) has been issued by District Mining Officer, Dumka vide letter no. 575/M, dated 03.04.2021.
2	CO	:	The CO, Shikaripara vide letter no. 895/Ra, dated 20.09.2019 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Dumka vide memo no. 01/M, dated 02.01.2020 certified that 01 other mining lease area (4.71 Acre) exists within 500 m radius from proposed project site and total area is 9.33 Acre.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1396, dated 13.08.2020 certified that the proposed project site is outside Eco Sensitive Zone of Udhawa Lake Bird Sanctuary.
5	DFO Forest	:	Division Forest Officer, Dumka Forest Division vide letter no. 3599, dated 05.11.2019 certified that the distance of reserved / protected

A  40   

	Distance	:	forest is more than 250 m from proposed project site.
6	DSR	:	The District Magistrate –cum- DC, Dumka vide letter no. 683/M, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) of Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on dated 28.06.2019.
8	Mine Plan Approval	:	Deputy Director Mines, Santhal Pargana Circle, Dumka vide Memo No. 128/DDM, dated 10.06.2021.

WORKING DETAILS

1	Mining Method	:	Open Cast Mechanized Mining
2	Quarry Area	:	Plan period –1.15 Ha. Conceptual stage –1.15Ha.
3	Waste Generation	:	Plan Period :48,800 Cum. Conceptual Stage –48,800Cum.
4	Stripping Ratio	:	1:0.2
5	Working Days	:	300 days/year
6	Benches: size & No	:	3m x 3m, No. of benches -13
7	Elevation of Mine	:	298 AMSL
8	Ground Level Elevation	:	298 AMSL
9	Ultimate Working Depth	:	263 AMSL
10	Water Table	:	150 MSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	46.25 Kg Slurry explosives/day
13	Diesel/Fuel requirement	:	HSD – 1364 liters / day (409.2 KL/year)

PRODUCTION DETAILS

Years	Production In Cum/Year	O.B Production in cum. /Year	Production In Tons/Year	Bench RL in meters
1st	33340	44615	90018.0	243.77 – 242 242 – 239 239 – 236 236 – 233 233 – 230 235.25 – 233 233 – 230 232.7 – 230 230 - 227
2nd	33385	4185	30139.5	230 – 227 230 – 227

				230 – 227 227 - 224
3rd	33335	0	90004.5	227 – 224 227 – 224 228 – 224
4 th	33385	0	90139.5	224 – 221 225 – 221 226 - 221
5 th	33350	0	90045.0	221 – 218 222 – 218 223 - 218
Total	166795	48800	450346.5	Depth – 25.77 m





LAND USE

Existing Land Use pattern

Category	Area in Ha.
Mining Activities	0.00
Offices/ Store /crusher/ Magazine etc.	0.00
Dumping	0.00
Mining Road	0.00
Garland drain	0.00
Green belt/Safety Zone	0.00
Unutilized	1.87
Total	1.87

Land Use Pattern for Current Plan Period :

Category	Area in Ha.
Mining Activities	1.15
Offices/ Store /crusher/ Magazine etc.	0.03
Dumping	0.04
Mining Road	0.03
Garland drain	0.01
Green belt/Safety Zone	0.61
utilized	1.87
Unutilized	0.00
Total	1.87

A  42  B  

Land Use Pattern after Life of the Mine :

Category	Area in Ha.
Mining Activities+ mining road	1.18 (Water Body)
Office+ Dump+safety zone	0.68 (Plantation)
Garland drain	0.01
Total	1.87

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Green Belt& Other reclaimed area	: 0.68Ha	1700
2	Haul /Approach Road	: 0.73Km.	488Tree both side approach road.

- 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.

Solid Waste Management

- Overburden Generation will be 48800 cum during the plan period. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

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




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

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable.

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.

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 Salbona Pahar Stone Mine of Smt. Mini Hansda, Mauza : Salbona Pahar, Thana no. : 07, Thana : Shikaripara, Distt. : Dumka, Jharkhand (1.87 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

A  44  B 

	Body		
18	Nearest Habitation	:	Rariya VILLAGE – 1 kmNE
19	Nearest Rail Station	:	New Nawadih at 2.63 km SW direction.
20	Nearest Airport	:	Deoghar Airport, 8.08 km South direction.
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 216 Dt- 01-02-2023
22	Road & Highways	:	NH-114A (Deoghr-Dumka), at 5.54 km S Direction.

CO-ORDINATES :

Corner Point	Latitude	Longitude
1	24°34'30.84" N	86°45'00.45" E
2	24°34'31.17" N	86°45'00.49" E
3	24°34'31.79" N	86°44'59.22" E
4	24°34'31.05" N	86°44'57.92" E
5	24°34'31.82" N	86°44'55.34" E
6	24°34'32.87" N	86°44'53.86" E
7	24°34'33.87" N	86°44'55.43" E
8	24°34'33.23" N	86°44'55.88" E
9	24°34'35.51" N	86°44'58.02" E
10	24°34'35.44" N	86°44'58.77" E
11	24°34'34.81" N	86°44'58.84" E
12	24°34'34.38" N	86°45'00.41" E
13	24°34'33.82" N	86°45'00.71" E
14	24°34'33.31" N	86°45'01.76" E
15	24°34'32.06" N	86°45'01.59" E
16	24°34'31.56" N	86°45'01.29" E
17	24°34'31.68" N	86°45'01.04" E
18	24°34'31.03" N	86°45'00.86" E

LAND DETAILS :

Khata No.	Plot No.
07	23 & 24


STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (Loi) has been issued by District Mining Office, Deoghar vide letter no. 490/M, dated 26.04.2023
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2	CO	:	The CO, Mohanpur vide letter no. 171/Ra, dated 09.02.2023 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Deoghar vide memo no. 824/M, dated 12.06.2023 certified that no other mining lease areas exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	Divisional Forest Officer, Wildlife Hazaribagh vide letter no. 725, dated 10.04.2023 certified that the proposed project is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Deoghar vide letter no. 216, dated 01.02.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Deoghar vide letter no. 829/M, dated 13.06.2023 has informed that this project is part of District Survey Report (DSR) of Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Mohanpur vide letter no. 416/Vi, Dated 23.03.2023 informed that Gram Sabha conducted on 21.02.2023.
8	Mine Plan Approval	:	Deputy Director Mines, Dumka vide letter no. 285/DDM, dated 09.06.2023.

WORKING DETAILS

1	Mining Method	:	Open Cast Mechanized Mining
2	Quarry Area	:	Plan period –1.12 Ha. Conceptual stage – 1.12Ha.
3	Waste Generation	:	Plan Period : 25,731 Cum. Conceptual Stage –25,731Cum.
4	Stripping Ratio	:	1:0.08
5	Working Days	:	300 days/year
6	Benches: size & No	:	6m x 6m, No. of benches -8
7	Elevation of Mine	:	288- 286 AMSL
8	Ground Level Elevation	:	286 AMSL
9	Ultimate Working Depth	:	249AMSL
10	Water Table	:	195 AMSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	Not required (Manual Mining Proposed)
13	Diesel/Fuel requirement	:	HSD – 1180 liters / day (354 KL/year)

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PRODUCTION DETAILS :

Years	Production In Cum/Year	O.B Production in cum. /Year	Production In Tons/Year	Bench RL in meters
1st	64458	14967	174037	230-227 (O.B.) 229-227 (O.B.) 227-221
2nd	50721	10764	136947	227-221 221-215
3rd	59505	-	160664	221-215 215-209
4 th	53463	-	144350	215-209 209-203 203-197
5 th	66222	-	178799	209-203 203-197 197-191
Total	294369	25731	794797	Depth – 39 m


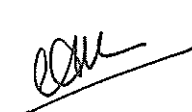


LAND USE

Existing Land Use pattern

Category	Area in Ha.
Mining Activities	0.00
Offices/ Store /crusher/ Magazine etc.	0.00
Dumping	0.00
Mining Road	0.00
Garland drain	0.00
Green belt/Safety Zone	0.00
Stone Stock yards	0.00
Unutilized	1.65
Total	1.65

Land Use Pattern for Current Plan Period:

Category	Area in Ha.
Mining Activites	1.12
Offices/ Store /crusher/ Magazine etc.	0.02
Dumping	0.05
Mining Road	0.04
Garland drain	0.03

A  48   

Green belt/Safety Zone	0.36
Stone Stock yards	0.00
Unutilized	0.03
Total	1.65

Land Use Pattern after Life of the Mine:

Category	Area in Ha.
Mining Activities + Mining Road	1.16 (Water Body)
Dumping + Office+ Green Belt+ Unutilized	0.46 (Plantation)
Garland drain	0.03
Total	1.65

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Green Belt & Other reclaimed area	: 0.46Ha	1150
2	Haul /Approach Road	: 0.11Km.	74Tree both side approach road.

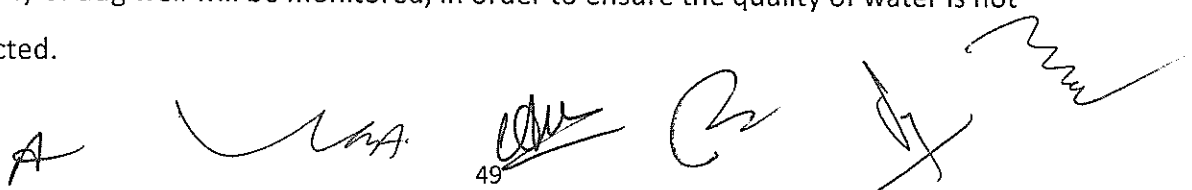
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality 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.

Solid Waste Management

- Overburden Generation will be 25731 cum during the plan period. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.



Air and Noise Pollution Control Measures:

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

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

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable.


Undertaking submitted affirming:

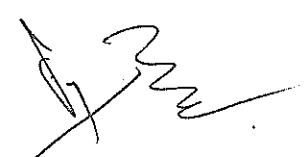
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District Survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are 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.

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 Dhurandharpur Stone Mine of M/s Jai Maa Tara Stone (Partners : Shri Sunil Kumar Jha & Shri Diwakar Yadav), Mauza : Dhurandharpur, Thana no. : 491, Thana : Rikhiya, Distt. : Deoghar, Jharkhand (1.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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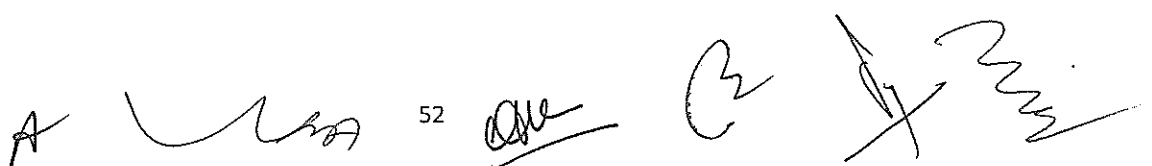
18	Nearest Habitation	:	Durgiraidih Village- 680m – SW
19	Nearest Rail Station	:	Mathurpur, Karmatanr at 2.30 km NE direction.
20	Nearest Airport	:	Deoghar Airport, 13.55 km NE direction.
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 312 Dt- 13-02-2023
22	Road & Highways	:	MDR (Deoghr-Jagdishpur), at 6.36 km West Direction.

CO-ORDINATES

Corner Point	Latitude	Longitude
1	24°21'11.18" N	86°36'50.99" E
2	24°21'12.11" N	86°36'47.73" E
3	24°21'13.46" N	86°36'48.25" E
4	24°21'13.88" N	86°36'47.14" E
5	24°21'14.30" N	86°36'47.55" E
6	24°21'15.16" N	86°36'45.97" E
7	24°21'16.28" N	86°36'46.59" E
8	24°21'15.45" N	86°36'48.36" E
9	24°21'16.55" N	86°36'48.84" E
10	24°21'16.27" N	86°36'49.86" E
11	24°21'17.45" N	86°36'50.07" E
12	24°21'17.59" N	86°36'50.84" E
13	24°21'17.45" N	86°36'52.97" E
14	24°21'15.57" N	86°36'52.40" E
15	24°21'15.23" N	86°36'53.34" E
16	24°21'13.79" N	86°36'52.74" E
17	24°21'12.18" N	86°36'51.27" E

LAND DETAILS :

Khata No.	Plot No.
01	290, 282 & 345
02	289
04	291, 281, 285, 286, 292 & 280



STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Deoghar vide letter no. 610/M, dated 19.05.2023
2	CO	:	The CO, Devipur vide letter no. 128/Ra, dated 21.02.2023 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Deoghar vide memo no. 823/M, dated 12.06.2023 certified that no other mining lease areas exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	Divisional Forest Officer, Wildlife Hazaribagh vide letter no. 402, dated 27.02.2023 certified that the proposed project is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Deoghar vide letter no. 312, dated 13.02.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Deoghar vide letter no. 829/M, dated 13.06.2023 has informed that this project is part of District Survey Report (DSR) of Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Devipur vide letter no. 208/Vi, Dated 23.03.2023 informed that Gram Sabha conducted on 21.02.2023.
8	Mine Plan Approval	:	Deputy Director Mines, Dumka vide letter no. 286/DDM, dated 09.06.2023.

WORKING DETAILS

1	Mining Method	:	Open Cast Semi Mechanized Mining
2	Quarry Area	:	Plan period –1.57 Ha. Conceptual stage – 1.57Ha.
3	Waste Generation	:	Plan Period : 15,488 Cum. Conceptual Stage –15,488Cum.
4	Stripping Ratio	:	1:0.04
5	Working Days	:	300 days/year
6	Benches: size & No	:	5m x 5m, No. of benches -8
7	Elevation of Mine	:	313 – 311 AMSL
8	Ground Level Elevation	:	311 AMSL
9	Ultimate Working Depth	:	281 AMSL

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10	Water Table	:	195 AMSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	88 Kg Slurry explosives/day
13	Diesel/Fuel requirement	:	HSD – 1308 liters / day (392.4 KL/year)

PRODUCTION DETAILS

Years	Production In Cum/Year	O.B Production in cum. /Year	Production In Tons/Year	Bench RL in meters
1st	80351	15488	216948	258-257 (O.B.) 256-255 (O.B.) 255 – 251 257 - 253
2nd	71803	0	193868	251 – 246 253 – 248
3rd	84584	0	228377	248 – 243 243 - 238
4 th	68676	0	185425	243 – 238 238 – 233
5 th	72653	0	196163	238 – 233 233 – 228 228 - 223
Total	378067	15488	1020781	Depth –35 m




LAND USE

Existing Land Use pattern

Category	Area in Ha.
Mining Activities	0.00
Offices/ Store /crusher/ Magazine etc.	0.00
Dumping	0.00
Mining Road	0.00
Garland drain	0.00
Green belt/Safety Zone	0.00
Stone Stock yards	0.00
Unutilized	5.69
Total	2.30

Land Use Pattern for Current Plan Period:

Category	Area in Ha.
Mining Activities	1.57
Offices/ Store /crusher/ Magazine etc.	0.02
Dumping	0.04

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Mining Road	0.02
Garland drain	0.06
Green belt/Safety Zone	0.56
Unutilized	0.03
Total	2.30

Land Use Pattern after Life of the Mine:

Category	Area in Ha.
Mining Activities + Mining Road	1.59 (Water Body)
Dumping + Office+ + Safety Zone+ Unutilized	0.65 (Plantation)
Garland drain	0.06
Total	2.30

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Green Belt& Other reclaimed area	0.65Ha	1625
2	Haul /Approach Road	0.216Km.	144Tree both side approach road.

- 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.

Solid Waste Management

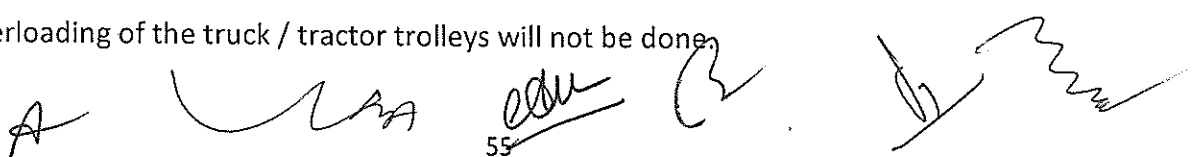
- Overburden Generation will be 15,488 cum during the plan period. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

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




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

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable.

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.

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 Kapsara Stone Mine of M/s A.R. Mining (Partners : (i) Shri Ajit Kumar Singh (ii) Shri Ravi Shankar Kumar (iii) Shri Khakhu Mandal), Mauza : Kapsara, Thana no. : 163, Thana : Devipur, Distt. : Deoghar, Jharkhand (2.30 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

Handwritten signatures and initials in black ink. The signatures are stylized and appear to be of different individuals. There is a small number '56' written between two of the signatures.

11. Tangidaha Stone Deposit of Shri Ajay Kumar Bhagat, Mauza : Tangidaha, Thana no. : 08, Thana : Maheshpur, Distt. : Pakur, Jharkhand (2.66 Ha).

(Proposal No. : SIA/JH/MIN/ 428650/2023).

Project Category : B1 – Application for TOR

EC Application for : 91,665cum / year (max)

Overburden:36,855 Cum. during plan period.

DG Set: NA

Crusher- Not proposed

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

This is a new project which has been taken for appraisal on 16.06.2023.

Project and Location Details :

Sl.	Parameter	Details	
1	Project Name	Tangidaha Stone Deposit Project Type – Stone Mine	
2	Lessee:	Shri Ajay Kumar Bhagat	
3	Lease Address	Village- Tangidaha, Thana No.- 08, Thanna- Maheshpur, District- Pakur, Jharkhand	
4	Lease Area	Ha: 2.66	Acres: 6.57
5	Type of Land	Non-Forest – Raiyati Land	
6	Project Cost	135.85 Lakhs	
7	EMP Budget	Capital: Rs. 12.285Lakhs (Proposed)	Recurring: Rs. 1.64 Lakhs/ year (Proposed)
8	CSR / CER Budget	NA	
9	New or Expansion	New	
10	Mineable Reserves	Cu.M.: 7,54,785	Tonnes: 21,13,398
11	Mine Life	8.23 years only.	
12	Manpower	37 Person	
13	Water Requirement	13.17 KLD (Drinking:0.56 KLD, Dust Suppression: 0.32 KLD, Plantation: 12.29 KLD)	
14	Water Source	Water will be sourced from near by Abandon Mine and Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.	
15	DG Set / power	Nil.	
16	Crusher	Not Applicable	
17	Nearest Water Body	Bansloi River – 7.75 km- South	
18	Nearest Habitation	Tangidaha	
19	Nearest Rail	Pakur Railway station – 15.80 km - NE	

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	Station		
20	Nearest Airport	:	Kazi Nazrul Islam Airport – 115 km-SW
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 77 Dt- 07-01-2022
22	Road & Highways	:	Hirapur-Maheshpur Road is about 1.15 Km in W direction

CO-ORDINATES

Corner Point	Latitude	Longitude
1	24°33'13.59"N	87°43'48.05"E
2	24°33'13.50"N	87°43'47.79"E
3	24°33'13.67"N	87°43'47.53"E
4	24°33'13.97"N	87°43'47.39"E
5	24°33'14.20"N	87°43'47.54"E
6	24°33'14.45"N	87°43'46.46"E
7	24°33'14.54"N	87°43'46.43"E
8	24°33'14.63"N	87°43'46.07"E
9	24°33'14.53"N	87°43'46.03"E
10	24°33'14.27"N	87°43'44.64"E
11	24°33'13.87"N	87°43'43.35"E
12	24°33'15.78"N	87°43'40.37"E
13	24°33'16.93"N	87°43'40.90"E
14	24°33'17.39"N	87°43'40.44"E
15	24°33'17.37"N	87°43'40.17"E
16	24°33'18.49"N	87°43'38.60"E
17	24°33'18.74"N	87°43'38.72"E
18	24°33'18.81"N	87°43'38.01"E
19	24°33'19.42"N	87°43'36.87"E
20	24°33'20.91"N	87°43'37.86"E
21	24°33'19.62"N	87°43'40.80"E
22	24°33'18.44"N	87°43'43.05"E
23	24°33'18.05"N	87°43'44.77"E
24	24°33'16.84"N	87°43'45.65"E
25	24°33'15.56"N	87°43'47.90"E
26	24°33'14.00"N	87°43'48.70"E

LAND DETAILS :

Khata No.	Plot No.
02	172, 173 (P), 174 (P) & 175 (P)

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58 



03	162 (P)
06	159 (P)
08	160 (P)
10	161 (P)
11	164 (P)
12	163 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 634/M, dated 09.04.2022.
2	CO	:	The CO, Maheshpur vide letter no. 814/Ra, dated 20.11.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Pakur vide memo no. 2134/M, dated 01.10.2022 certified that 02 other mining lease areas (7.09 Acre & 5.00 Acre) exists within 500 m radius from proposed project site and total area is 18.66 Acre or 7.55 Ha.
4	DFO Wild Life	:	Divisional Forest Officer, Wildlife Hazaribagh vide letter no. 2123, dated 02.12.2021 certified that the proposed project is outside Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.
5	DFO Forest Distance	:	DFO, Pakur vide letter no. 77, dated 07.01.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no. 573/M, dated 18.03.2023 has informed that this project is part of District Survey Report (DSR) of Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Maheshpur vide letter no. 102/Vi, Dated 15.01.2022 informed that Gram Sabha conducted on 17.01.2022.
8	Mine Plan Approval	:	Deputy Director Mines, Dumka vide letter no. 288/DDM, dated 10.06.2023.

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WORKING DETAILS

1	Mining Method	:	Open Cast Semi Mechanized Mining
2	Quarry Area	:	Plan period –1.82 Ha. Conceptual stage – 1.82Ha.
3	Waste Generation	:	Plan Period : 36,855Cum. Conceptual Stage –36,855Cum.
4	Stripping Ratio	:	1:0.08
5	Working Days	:	300 days/year
6	Benches: size & No	:	5 m x 5 m, No. of benches -9
7	Elevation of Mine	:	154 – 152 AMSL
8	Ground Level Elevation	:	152 AMSL
9	Ultimate Working Depth	:	122AMSL
10	Water Table	:	111 AMSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	35.28 Kg Slurry explosives/day
13	Diesel/Fuel requirement	:	HSD – 1124 liters / day (337.2 KL/year)

PRODUCTION DETAILS :

Year	Production of Stone in Cum.	Production of Stone in Tonnes	Removal of Soil in Cum.
1 st Year	85,860	2,40,408	36,855
2 nd Year	85,590	2,39,652	0
3 rd Year	91,665	2,56,662	0
4 th Year	85,725	2,40,030	0
5 th Year	85,725	2,40,030	0
Total	4,34,565	12,16,782	36,855

LAND USE

Existing Land Use pattern

Category	Area in Ha.
Mining Area	0.00
Office	0.00
Dump	0.00
Road	0.00
Garland Drain	0.00
Safety Zone	0.00
Settling Tank	0.00
Unutilied	2.66
Total	2.66

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60







Land Use Pattern for Current Plan Period:

Category	Area in Ha.
Mining Area	1.82
Office	0.01
Dump	0.04
Road	0.02
Safety Zone	0.64
Garland Drain/ Settling Tank	0.02
Unutilied	0.11
Total	2.66

Land Use Pattern after Life of the Mine :

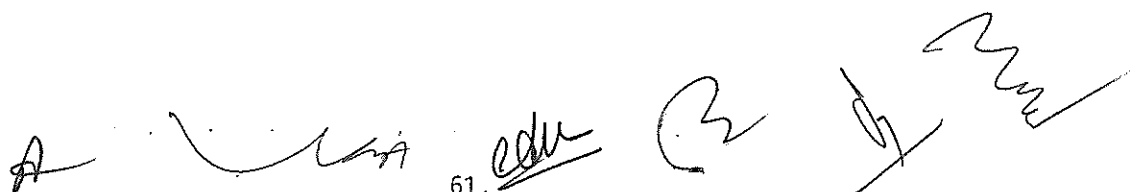
Category	Area in Ha.
Mining Area	1.82 (Water body)
Office + Dump+ Road + Safety zone	0.71 (Plantation)
Garland Drain/ Settling Tank	0.02
Unutilied	0.11
Total	2.66

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Green Belt& Other reclaimed area	0.71Ha	1775
2	Haul /Approach Road	0.02Km. + 1 Km	668Tree both side approach road.

- * 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.



Solid Waste Management

- Overburden Generation will be 36,855 cum during the plan period. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:




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

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

- Carts or tractor-trolleys will be developed on village roads.
- Tractors-trolleys will be well maintained and PUC certified.
- Timely maintenance of vehicles and their silencers to minimize vibration and sound.
- Minimum use of horns in the village area and silence zone (if any) as applicable.

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.

A  62  C2 

- 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.

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 15, 16, 17, 18 & 19.06.2023, 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 the following specific conditions :

- i. Copy of approved mine plan should be submitted at the time of submitting the final EIA for consideration for grant of Environmental Clearance. The mine plan must be approved as per directive of Deptt. of Mines & Geology, Govt. of Jharkhand issued vide letter no. 2078A, dated 27.09.2014.

Day 3 : June 17th, 2023 [Saturday]

Consideration of Proposals

1. Lakrahi Stone Deposit of M/s Suryavanshi Minerals (Partners : Shri Randhir Kumar Pathak & Shri Bhaskar Bhusan), Village : Lakrahi, Thana : Naudiha Bazar, Thana no. : 381, Distt. : Palamu, Jharkhand (2.39 Ha).

(Proposal No. : SIA/JH/MIN/ 433285/2023).

Project Category: B2 – Application for Environment Clearance.

EC Application for: Stone: 76,442 Cu.M. / year i.e 2,14,039 Tonnes / year.

Name of the Consultant: M/s P & M Solution, Noida, U.P.

This is a new project which has been taken for appraisal on 17.06.2023.

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Lakrahi Stone Deposit of M/s Suryavanshi Minerals,
2	Applicant Address:	: M/s Suryavanshi Minerals Partner 1) Sri Randhir Kr Pathak At – Gayatri Mandir, Sudna, P.O. – Sudna, P.S. – Daltonganj, District – Palamu, Jharkhand Partner 2) Sri Bhaskar Bhusan

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63

		At Village- Misrol, P.O. – Tapej, P.S. – Sadar, District – Chatra, State – Jharkhand.	
3	Lease Address :	In Mouza - Lakrahi, Thana – Naudiha Bazar, Thana No. - 381, District - Palamu, Jharkhand.	
4	Applied Area	Ha: 2.39 Hectares	Acres: 5.91 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	60 Lakhs	
7	EMP Budget	Capital: 10.13 Lakhs	Recurring: 6.79 Lakh / year
8	CSR / CER Budget	Rs. 1.20 Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.M.: 3,82,099 Cu. M.	Tonnes: 10,69,878 Tonnes
11	Mine Life	5 years	
12	Man power	40	
13	Water Requirement	16.35 KLD Drinking: 0.40 KLD, Dust Suppression: 7.21 KLD, Plantation: 8.74 KLD	
14	Water Source	From nearby authorized sources.	
15	DG Set / power	60 KVA	
16	Crusher	No	
17	Nearest Water Body	Batane River is flowing approx. 2.98 Km aerial distance away towards West direction.	
18	Nearest Habitation	Lakrahi village is approx. 1.29 Km aerial distance away in South West direction.	
19	Nearest Rail Station	Kajri Railway Station is situated approx. 32.65 Km aerial distance away in South West direction.	
20	Nearest Air Port	Gaya International Airport, Bihar is situated approx. 82.20 Km aerial distance away in North East direction.	
21	Nearest Forest	Nearest Forest is situated 1100m away from the proposed project.	
22	Road & Highways	Highway: NH-139 is near about 12.22 Km aerial distance away. Approach Road: Chhatarpur – Manatu Road is near about 0.61 Km aerial distance away in south direction.	

CO-ORDINATES :

1	Latitude	:	From N 24°18'19.79"	To N 24°18'24.88"
2	Longitude	:	From E 84°17'27.94"	To E 84°17'37.05"

LAND DETAILS :

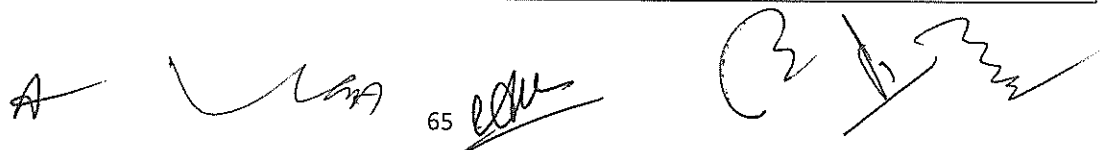
Khata No.	13	07
Plot No.	239 & 240	250

STATUTORY CLEARANCES :

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Palamu, Medninagar vide letter no. 593/M, dated 22.03.2023.
2	CO	:	The CO, Naudiha Bazar, Palamu vide letter no. 96, dated 11.03.2023 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar or Register II.
3	DMO	:	DMO, Palamu, Medninagar vide memo no. 1075/M, dated 20.05.2023 certified that another application's LOI is issued within 500 m radius from proposed project site & total area is (5.91 Acre & 4.43 Acre) = 10.34 acres / 4.18 Ha.
4	DFO Wild Life	:	Deputy Director, Palamu Tiger Project, North Division, Medininagar vide letter no. : 355, dated 23.03.2023 certified that the proposed project site is outside Eco Sensitive Zone of Palamu Wildlife Sanctuary, Betla National Park and Mahuadanr Wolf Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Medninagar Forest Division vide letter no. 255, dated 08.02.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Palamu, Medninagar vide letter no. 962/M, dated 08.05.2023 has informed that this project is part of District Survey Report (DSR) of Palamu district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Naudiha Bazar, Palamu vide letter no. 251, Dated 21.01.2023 informed that Gram Sabha conducted on dated 18.01.2023
8	Mine Plan Approval	:	Approved by the District Mining Officer, Garhwa, Jharkhand vide Memo No. 643/M dated 18.05.2023

Working Details :

1	Mining Method	:	Opencast Mechanized Mining.
2	Quarry Area	:	5 years – 1.68 Ha Life of Mine – 1.68 Ha
3	Waste Generation	:	5 years– 27,906 Cu.M (Gritty Soil & Intercalated Waste) Life of Mine – 27,906 Cu.M (Gritty Soil & Intercalated Waste)
4	Stripping Ratio	:	1 : 0.07



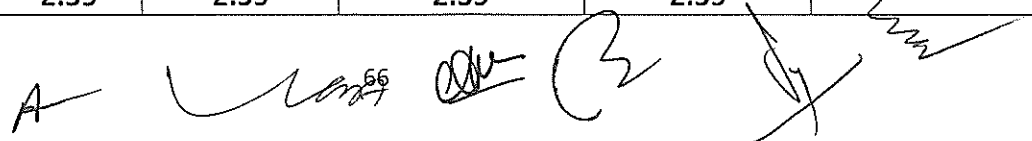
5	Working Days	:	300 Days
6	Benches: size & No	:	Size: 6m x 6m, No. - 7
7	Elevation of Mine	:	Highest RL 293m AMSL, Lowest RL 291m AMSL
8	Ground Level Elevation	:	288m AMSL
9	Ultimate Working Depth	:	251m AMSL
10	Water Table	:	241m AMSL
11	Topography of Mine	:	Gently sloping land.
12	Explosive Requirement	:	37.8 Tons/year
13	Diesel/Fuel requirement	:	42 KL/year (140 Litres/day)

Production Details :

Year	Production of stone		Removal of Gritty Soil (Cum)	Intercalated Waste Generation (Cum)	Bench RL in Meters
	(Cum)	(Tonne)			
1st Year	76420	213975	4950	4023	293m – 281m
2nd Year	76408	213942	1302	4021	293m – 281m
3rd Year	76420	213976	000	4023	281m – 269m
4th Year	76442	214039	1541	4024	293m – 269m
5th Year	76409	213946	000	4022	269m – 251m
Total	382099	1069878	7793	20113	

Land Use

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area (Quarry)	Nil	1.68 (including backfilling 0.38 Ha)	1.68 (including backfilling 0.38 Ha)	0.24	Backfill
					1.44	Water body
2	Green Belt Within Safety Barrier	Nil	0.71	0.71	0.71	Plantation
3	Road	0.01	Nil	Nil	Nil	-
4	Unutilized	2.38	Nil	Nil	Nil	-
	TOTAL	2.39	2.39	2.39	2.39	

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ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.71 Ha	1775 trees @ 2500 trees per Ha
2	Haul /Approach Road	:	0.122 Ha	408 trees on both sides – 3m distance
			i.e. Length 610 width 2m	





- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road 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.

Solid Waste Management

- Waste (Gritty Soil & Intercalated Waste) Generation will be 27,906 Cu.M. during the life of Mine.
- The area is covered with a layer of gritty soil. During quarry development in 1st year gritty soil and intercalated waste will be removed and this will be temporarily dumped [Area – 0.18 Ha, (L x W x H = 55m x 40m x 5m) at the south- east part of the applied area with suitable precautions like constructing parapet wall, garland drain & in and from 2nd, 3rd, 4th & 5th year removed gritty soil, intercalated waste & existing dumped materials will be backfilled within the exhausted quarry.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the applied area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.


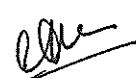

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Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission.
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask etc shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

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 water required for the mining activities shall be supplied by the tanker from nearby authorized sources.
- c. The letter issued in respect of District Survey Report (DSR), is issued by the competent authority. I will abide by any directives issued by any court of law in future.
- d. 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.
- e. The Boundary Pillars of the proposed mine applied area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. 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.
- h. Sufficient water spray using water tankers will be done for effective dust suppression within the mine applied area and on haul roads.
- i. 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.
- j. If any tree felling than necessary permission shall be taken from the competent authority.
- k. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.

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- l. 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.

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 Lakrahi Stone Deposit of M/s Suryavanshi Minerals (Partners : Shri Randhir Kumar Pathak & Shri Bhaskar Bhusan), Village : Lakrahi, Thana : Naudiha Bazar, Thana no. : 381, Distt. : Palamu, Jharkhand (2.39 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

2. Lakrahi Stone Deposit of Shri Sahid Ali, Village : Lakrahi, Thana : Naudiha Bazar, Thana no. : 381, Distt. : Palamu, Jharkhand (1.79 Ha).

(Proposal No. : SIA/JH/MIN/ 433291/2023).

Project Category: B2 – Application for Environment Clearance

EC Application for: Stone: 41,095 Cu.M. / year i.e 1,15,065 Tonnes / year

Name of the Consultant: M/s P & M Solution, Noida -201301 UP.

This is a new project which has been taken for appraisal on 17.06.2023.

Project and Location Details :

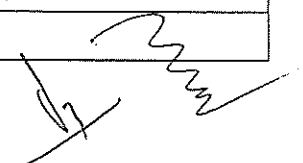
Sl	Parameter	Details	
1	Project Name	: Lakrahi Stone Deposit of Sahid Ali,	
2	Applicant Address:	: Sahid Ali At – Patel Chowk, ward No. - 03, Gaddi Mohalla, P.O. + P.S. – Bhabua, District – Kaimur, State – Bihar, Pin Code – 821101.	
3	Lease Address :	: In Mouza - Lakrahi, Thana – Naudiha Bazar, Thana No. - 381, District - Palamu, Jharkhand.	
4	Applied Area	: Ha: 1.79 Hectares	Acres: 4.43 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: 54 Lakhs	
7	EMP Budget	: Capital: 9.50 Lakhs	Recurring: 6.23 Lakh / year
8	CSR / CER Budget	: Rs. 1.08 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 2,05,428 Cu. M.	Tonnes: 5,75,198 Tonnes
11	Mine Life	: 5 years	

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 69



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12	Man power	:	35
13	Water Requirement	:	15.34 KLD Drinking: 0.35 KLD, Dust Suppression: 6.33 KLD, Plantation: 8.66 KLD
14	Water Source	:	From nearby authorized sources.
15	DG Set / power	:	60 KVA
16	Crusher	:	No
17	Nearest Water Body	:	Batane River is flowing approx. 2.91 Km aerial distance away towards West direction
18	Nearest Habitation	:	Lakrahi village is approx. 1.16 Km aerial distance away in South west direction.
19	Nearest Rail Station	:	Kajri Railway Station is situated approx. 32.42 Km aerial distance away in South West direction.
20	Nearest Air Port	:	Gaya International Airport, Bihar is situated approx. 82.07 Km aerial distance away in North East direction.
21	Nearest Forest	:	Nearest Forest is situated 920m away from the proposed project.
22	Road & Highways	:	Highway: NH-139 is near about 12.63 Km aerial distance away. Approach Road: Chhatarpur – Manatu Road is near about 0.43 Km aerial distance away in south direction.

CO-ORDINATES

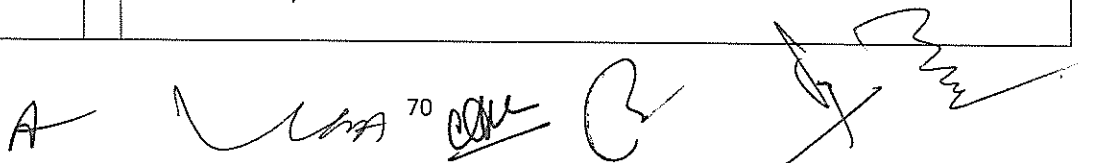
1	Latitude	:	From N 24°18'13.96"	To N24°18'22.70"
2	Longitude	:	From E 84°17'25.49"	To E84°17'31.19"

LAND DETAILS

Khata No.	11
Plot No.	248 & 394

STATUTORY CLEARANCES :

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Palamu, Medninagar vide letter no. 314/M, dated 09.02.2023.
2	CO	:	The CO, Naudiha Bazar, Palamu, vide letter no. 01 (Mu), dated 31.03.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar or Register II.
3	DMO	:	DMO, Palamu, Medninagar, vide memo no. 1076/M, dated 20.05.2023 certified that another application's LOI is issued within 500m radius from proposed project site & total area is (4.43 Acre & 5.91 Acre) = 10.34 acres / 4.18 Ha.



4	DFO Wild Life	:	Deputy Director, Palamu Tiger Project, North Division, Medininagar vide letter no. : 357, dated 23.03.2023 certified that the proposed project site is outside Eco Sensitive Zone of Palamu Wildlife Sanctuary, Betla National Park and Mahuadanr Wolf Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Medninagar Forest Division vide letter no. 235, dated 06.02.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Palamu, Medninagar vide letter no. 962/M, dated 08.05.2023 has informed that this project is part of District Survey Report (DSR) of Palamu district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Naudiha Bazar, Palamu vide letter no. 02, Dated 04.01.2023 informed that Gram Sabha conducted on dated 12.12.2022
8	Mine Plan Approval	:	Approved by the District Mining Officer, Garhwa, Jharkhand vide Memo No. 638/M, dated 17.05.2023.

Working Details

1	Mining Method	:	Opencast Mechanized Mining.
2	Quarry Area	:	5 years – 1.04 Ha Life of Mine – 1.04 Ha
3	Waste Generation	:	5 years– 15,931 Cu.M (Gritty Soil & Intercalated Waste) Life of Mine – 15,931 Cu.M (Gritty Soil & Intercalated Waste)
4	Stripping Ratio	:	1 : 0.07
5	Working Days	:	300 Days
6	Benches: size & No	:	Size: 6m x 6m, No. - 5
7	Elevation of Mine	:	Highest RL 292m AMSL, Lowest RL 288m AMSL
8	Ground Level Elevation	:	288m AMSL
9	Ultimate Working Depth	:	262m AMSL
10	Water Table	:	241m AMSL
11	Topography of Mine	:	Gently sloping land.
12	Explosive Requirement	:	18.9 Tons/year

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13	Diesel/Fuel requirement	:	42 KL/year (140 Litres/day)
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Production Details

Year	Production of stone		Removal of Gritty Soil (Cum)	Intercalated Waste Generation (Cum)	Bench RL in Meters
	(Cum)	(Tonne)			
1st Year	41,086	1,15,040	2190	2162	292m – 286m
2nd Year	41,095	1,15,065	000	2163	286m – 274m
3rd Year	41,086	1,15,040	935	2162	292m – 274m
4th Year	41,095	1,15,065	900	2163	292m – 274m
5th Year	41,066	1,14,988	1095	2161	292m – 280m & 274m – 262m
Total	2,05,428	5,75,198	5120	10811	

Land Use

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area (Quarry)	Nil	1.04 (including backfilling 0.19 Ha)	1.04 (including backfilling 0.19 Ha)	0.12	Backfill
					0.92	Water body
2	Green Belt Within Safety Barrier	Nil	0.75	0.75	0.75	Plantation
3	Road	0.03	Nil	Nil	Nil	-
4	Unutilized	1.76	Nil	Nil	Nil	-
	TOTAL	1.79	1.79	1.79	1.79	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.75 Ha	1875 trees @ 2500 trees per Ha
2	Haul /Approach Road	:	0.086 Ha	288 trees on both sides – 3m distance
			i.e. Length 430 width 2m	

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road 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.

Solid Waste Management

- Waste (Gritty Soil & Intercalated Waste) Generation will be 15,931 Cu.M. during the life of Mine.
- The area is covered with a layer of gritty soil. During quarry development in 1st 2nd & 3rd year gritty soil and intercalated waste will be removed and this will be temporarily dumped [1st year - Area – 0.08 Ha, (L x W x H = 32m x 20m x 5m), 2nd year - Area – 0.04 Ha, (L x W x H = 27m x 14m x 5m) & 3rd year - Area – 0.06 Ha, (L x W x H = 24m x 22m x 5m)] at the south- east part of the area with suitable precautions like constructing parapet wall, garland drain & in 4th & 5th year removed gritty soil, intercalated waste & existing dumped materials will be backfilled within the exhausted quarry.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the applied area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission.
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.






73

- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask etc shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

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 water required for the mining activities shall be supplied by the tanker from nearby authorized sources.
- c. The letter issued in respect of District Survey Report (DSR), is issued by the competent authority. I will abide by any directives issued by any court of law in future.
- d. 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.
- e. The Boundary Pillars of the proposed mine applied area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. 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.
- h. Sufficient water spray using water tankers will be done for effective dust suppression within the mine applied area and on haul roads.
- i. 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.
- j. If any tree felling than necessary permission shall be taken from the competent authority.
- k. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- l. 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.

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 Lakrahi Stone Deposit of Shri Sahid Ali, Village : Lakrahi, Thana : Naudiha Bazar, Thana no. : 381, Distt. : Palamu, Jharkhand (1.79 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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		Protected Forest -Approx. 5.40 km towards SW direction of mine site.
21	Road & Highways	: SH- 13, Approx. 2.0 km. in NE direction.

CO-ORDINATES

1	Latitude	From 24°26'51.52" N	To 24°26'57.96" N
2	Longitude	From 85°42'05.86" E	To 85°42'11.17" E

LAND DETAILS :

Khata no.	Plot No.
173	36 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by DMO, Koderma vide memo no. 1003/M, dated 19.05.2023.
2	CO	: The CO, Domchanch vide letter no. : 1151, dated 20.12.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	: DMO, Koderma vide memo no. 1002/M, dated 19.05.2023 certified that 01 other mining lease area (4.50 Acre) exists within 500 m radius from proposed project site and total area is 10.10 Acre.
4	DFO Wildlife	: DFO, Wildlife Hazaribag vide letter no. : 2194, dated 06.12.2021 certified that the proposed project site is outside Eco Sensitive Zone of Koderma Wildlife Sanctuary.
5	DFO Forest Distance	: DFO, Koderma Forest Division vide letter no. : 1349, dated 27.03.2021 certified that the distance of reserved / protected forest is 280 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Koderma vide letter no. 1058/M, dated 31.05.2023 has informed that this project is part of District Survey Report (DSR) of Koderma district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Gram Sabha conducted on 16.10.2022.
8	Mine Plan Approval	: District Mining Officer, Koderma vide memo no. 1088, dated 03.06.2023.

Working Details

1	Mining Method	:	Opencast semi- mechanized method
2	Quarry Area	:	2.26 Ha. OR 5.60 Acre
3	Waste Generation	:	2867.00 cum or 7740.9 tons
4	Stripping Ratio	:	1: 0.004
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	379 AMSL to 380 AMSL
8	Ground Level Elevation	:	379 AMSL
9	Ultimate Working Depth	:	350 AMSL
10	Water Table	:	340 AMSL (15mbgl)
11	Topography of Mine	:	Area represents undulating topography
12	Explosive Requirement	:	110 kg/day
13	Diesel/Fuel requirement	:	110 litre/day

Production Details :

Year	Production of Stone in in (cum)	Production of Stone in in (Tons)	Total Waste in (cum)	Bench RL in Meters
1 st	50600.00	136620.00	2867.00	380 mRL – 374 mRL
2 nd	51150.00	138105.00	-	374 mRL – 368 mRL
3 rd	51700.00	139590.00	-	368 mRL – 362 mRL
4 th	52312.00	141242.40	-	362 mRL – 356 mRL
5 th	52416.00	141523.20	-	356 mRL – 350 mRL
Total	258178.00	697080.60	2867.00	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	0.096	1.147	1.818 (Entire area will be converted into Water Reservoir)
Road	0.006	comes under quarry	comes under quarry
Safety Zone	-	0.442	0.442

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Proposed Crusher	-	0.017	-
Total	0.102	1.606	2.26
Balance	2.158	0.654	-
Lease Hold Area	2.26	2.26	2.26

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.442 ha	1105
2	Along Approach Road	0.56 km	560
3	No. of Plants distributed in Anganwadi, Panchayat Bhawan or in schools	-	100





- 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.

Solid Waste Management

Total 2867.00 cum or 7740.9 tons waste during the plan period will be generated, which will be used in maintenance of mine road and village road, so there is no requirement of waste dumping Plan for this mining plan.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

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- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming :

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

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10	Mine Life	:	8.82 ~ 10 years
11	Man power	:	20
12	Water Requirement	:	14.371 ~ 14.37 (Drinking: 0.20 KLD, Dust Suppression: 9.785 KLD, Plantation: 4.386 KLD)
13	Water Source	:	From Nearby villages by tankers
14	DG Set / power	:	200 KVA
15	Crusher	:	No crusher
16	Nearest Water Body	:	Hurrahi Nadi, approx. 4.7 0 km towards East direction.
17	Nearest Habitation	:	Khargu, approx 1.30 km towards SSW direction.
18	Nearest Rail Station	:	Maheshpur Halt Railway station , approx. 2.77 km towards NW direction.
19	Nearest Air Port	:	Birsa Munda Airport, approx. 132.0 km towards SW direction.
20	Nearest Forest	:	Phulwariya Protected Forest, approx. 4.26 Km in NE direction. Masmohana Protected Forest, approx. 3.92 Km in SW direction. Partango Protected Forest, approx. 3.30 Km in SW direction.
21	Road & Highways	:	NH-20, approx. 12.96 km. in NW direction. SH-13, approx. 1.30 km in NW direction.

CO-ORDINATES

1	Latitude	From 24°27'11.80" N	To 24°27'15.29" N
2	Longitude	From 85°43'29.10" E	To 85°43'33.92" E

LAND DETAILS :

Khata no.	Plot No.
278	64
326	66 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Koderma vide memo no. 1105/M, dated 06.06.2023.
2	CO	:	The CO, Domchanch vide letter no. : 596, dated 25.05.2023 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Koderma vide memo no. 1130/M, dated 10.06.2023 certified that 01 other mining lease area (3.40 Acre) exists within 500 m radius from proposed project site and total area is 5.30 Acres

4	DFO Wildlife	:	DFO, Wildlife Hazaribag vide letter no. : 1064, dated 06.06.2023 certified that the proposed project site is outside Eco Sensitive Zone of Koderma Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Koderma Forest Division vide letter no. : 1335, dated 03.04.2023 certified that the distance of reserved / protected forest is 308 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Koderma vide letter no. 1143/M, dated 12.06.2023 has informed that this project is part of District Survey Report (DSR) of Koderma district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on 16.04.2023.
8	Mine Plan Approval	:	District Mining Officer, Koderma vide memo no. 1146/M, dated 13.06.2023.

Working Details

1	Mining Method	:	Opencast semi mechanised method
2	Quarry Area	:	0.769 Ha or 1.90 Acre
			Life of Mine – 8.82~ 9.0 Years
3	Waste Generation	:	3562.0 cum or 9617.4
4	Stripping Ratio	:	1: 0.002
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	365 AMSL to 375 AMSL
8	Ground Level Elevation	:	339 AMSL
9	Ultimate Working Depth	:	341 AMSL
10	Water Table	:	330 AMSL (15mbgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	70 kg/day
13	Diesel/Fuel requirement	:	70 litre/day

Production Details

Year	Production of stone (Cum)	Production of stone (Tonnes)	Total Waste in (cum)	Bench RL in Meters
1 st	20900.00	56430.00	1286.00	366mRL – 359 mRL
2 nd	21500.00	58050.00	1167.00	365 mRL – 359 mRL
3 rd	22500.00	60750.00	1109.00	359 mRL – 353 mRL

4 th	23400.00	63180.00	-	359 mRL – 353 mRL
5 th	23100.00	62370.00	-	359 mRL – 353 mRL
Total	111400.00	300780.00	3562.00	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	--	0.492	0.492 (entire area converted into water reservoir)
Road	0.008	(Comes under quarry)	(Comes under quarry)
Safety Zone	-	0.277 (Plantation)	0.277 (Plantation)
Total	0.008	0.796	0.796
Balance	0.761	-	-
Lease Hold Area	0.769	0.796	0.769

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.277 ha	639
2	Along Approach Road	1.4 km	1400
3	In consulting local authorities	-	100

- 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.

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Solid Waste Management

There is 3562.0 cum or 9617.4 waste generated during this Mining Plan period, so there is no requirement of waste dumping Plan for this mining plan but it will be used for village road and approach road maintenance.

Water Quality Management




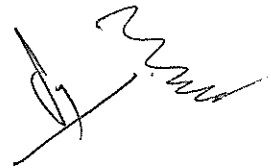
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust, generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.

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- 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.

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 Purnadih Stone Deposit of M/s Pavitra Trading Company (Prop. : Shri Rajkumar Das), Village : Purnadih, Thana : Nawalsahi, Distt. : Koderma, Jharkhand (0.769 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

5. Ghutiyabara Ashana Stone Deposit of M/s M.G. Contractors Pvt. Ltd., Mouza : Ghutiyabara Ashana, Anchal : Mohanpur, Thana : Mohanpur, Distt. : Deoghar, Jharkhand (2.16 Ha).

(Proposal No. : SIA/JH/MIN/ 433286/2023).

Project Category: B2 – Application for Environment Clearance

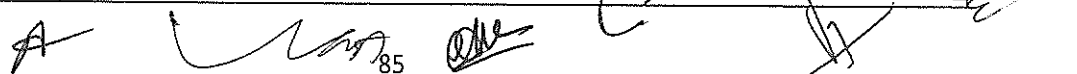
EC Application for: Proposed Capacity- 93,270.014 cum/annum or 251829.04 TPA Stone.

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

This is a new project which has been taken for appraisal on 17.06.2023.

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Ghutiyabara Ashana Stone Deposit
2	Lessee:	: M/s M.G. Contractors Pvt. Ltd. Authorized Signatory -Sri Ravi Gupta,





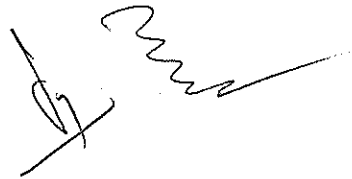
3	Lease Address	:	Mouza- Ghutyabara Ashana, Anchal- Mohanpur Thana– Mohanpur, District – Deoghar , State –Jharkhand.
4	Lease Area	:	2.16 ha Acres- 5.35 Acres
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 45 Lakhs
7	EMP Budget	:	Capital: 4.525 Lakhs Recurring: 4.27 Lakh / year
8	New or Expansion	:	New
9	Mineable Reserves	:	cum.: 466647.00 cum Tonnes: 1259946.91 tons
10	Mine Life	:	5 years
11	Man power	:	30
12	Water Requirement	:	8.78 ~ 8.80 KLD (Drinking: 0.30 KLD, Dust Suppression: 4.88 KLD, Plantation: 3.60 KLD)
13	Water Source	:	From Nearby villages by tankers
14	DG Set / power	:	500 KVA
15	Crusher	:	With Crusher
16	Nearest Water Body	:	Matihara Nadi, approx. 3.99Km in North direction
17	Nearest Habitation	:	Simarjor at approx 0.63 km towards NNW direction.
18	Nearest Rail Station	:	Ghormara railway station about 4.68 Km in SSW direction.
19	Nearest Air Port	:	Deoghar Airport, approx. 18.46 km towards WSW direction.
20	Nearest Forest	:	PF - Approx 4.50 Km in West direction. Open Scrub - Approx 2.25 Km in NNW direction Open Scrub - Approx 4.20 Km in North direction.
21	Road & Highways	:	NH-114A , approx. 3.27 km in South direction. NH-133, approx. 6.49 km in NNW direction SH-17, approx. 23.22 km in ENE direction.

CO-ORDINATES

1	Latitude	From 24°28'21.5393" N	To 24°28'29.9514" N
2	Longitude	From 86°53'49.7920" E	To 86°53'56.6344" E

LAND DETAILS :

Khata no.	Plot No.
11	697
39	698

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STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Deoghar vide letter no. 650/M, dated 26.05.2023.
2	CO	:	The CO, Mohanpur vide letter no. 205/Ra, dated 16.02.2023 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Deoghar vide memo no. 805/M, dated 08.06.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 437, dated 28.02.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Deoghar Forest Division vide letter no. 313, dated 13.02.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Deoghar vide letter no. 829 / M, dated 13.06.2023 has informed that this project is part of District Survey Report (DSR) of Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Mohanpur vide letter no. 255/Vi, dated 16.02.2023 informed that Gram Sabha conducted on dated 10.02.2023.
8	Mine Plan Approval	:	Deputy Director of Mines, Santhal Pargana Circle, Dumka vide Memo No. 284/DDM, dated 09.06.2023.

Working Details

1	Mining Method	:	Semi mechanized "OTFM" method.
2	Quarry Area	:	2.16 ha. Or 5.35 Acres
3	Waste Generation	:	80072.95 cum or 216196.96 tons
4	Stripping Ratio	:	1: 0.30
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	236 AMSL to 247 AMSL
8	Ground Level Elevation	:	236 AMSL
9	Ultimate Working Depth	:	220 AMSL
10	Water Table	:	225 AMSL (20mbgl)



11	Topography of Mine	:	Area represents Undulating Small hillocks.
12	Explosive Requirement	:	110 kg/day
13	Diesel/Fuel requirement	:	110 litre/day

Production Details

Year	Production of stone in Tonnes	Overburden in Cum	Intercalated waste in Cum	Total Waste in Cum
1st Year	251829.04	29580.00	4570.4	34150.40
2nd Year	251509.46	4988.00	4564.60	9552.60
3rd Year	251988.83	0.0	4573.30	4573.30
4th Year	251625.17	22671.00	4566.7	27237.70
5th Year	251625.17	0.0	4558.95	4558.95
Total	1258577.67	57239.00	22833.95	80072.95

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	--	1.633	1.633 (Entire area shall be left as water reservoir)
Road	--	0.0	0.0
Waste Dump	--	0.0 (To be removed for backfilling)	Nil (waste dump to be removed and backfilled)
Crusher	--	0.0 (shifted to the quarry bottom)	0.0
Safety Zone	--	0.532 (Plantation)	0.532 (Plantation)
Total	--	2.165	2.165
Balance	--	0.0	0.0
Lease Hold Area	2.165	2.165	2.165

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.532 ha	1330
2	Along Approach Road	0.37 km	370
3	No. of plants in buffer zone consulting local authorities	--	100

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CSM

B

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- 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.

Solid Waste Management

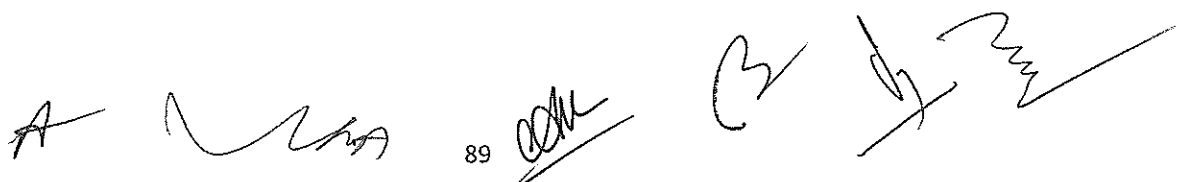
Total 80072.95 cum or 216196.96 tons waste during the plan period will be generated. The 50% of waste generated during the plan period i.e. 40036.48 cum (In situ) shall be utilized for approach & haul road maintenance. The waste material (50%) generated during the 1st to 3rd year shall be temporarily dumped in central part of the lease area, the maximum height of dump shall be 6.17m. During the 4th year onwards the 50% of generated waste and waste materials of temporary dump shall be used for partial backfilling of exhausted quarry in southern corner of the area and it will cover 0.172ha area.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission







- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months.

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.

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 Ghutiyabara Ashana Stone Deposit of M/s M.G. Contractors Pvt. Ltd., Mouza : Ghutiyabara Ashana, Anchal : Mohanpur, Thana : Mohanpur, Distt. : Deoghar, Jharkhand (2.16 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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6. Lohatamba Stone Deposit - I of M/s M.N. Enterprises (Prop. : Sri Hriday Narayan Singh), Village : Lohatamba, Thana : Rajabhitta, Distt. : Godda, Jharkhand (2.954 Ha).

(Proposal No. : SIA/JH/MIN/ 282672/2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity-71809.16 cu.m/annum or 208246.59 TPA

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

This is a new project which has been taken for appraisal on 17.06.2023

Project and Location Details:

Sl	Parameter	Details	
1	Project Name	: Lohatamba Stone Deposit - I	
2	Lessee:	: M/S M N Enterprises (Proprietor - Sri Hriday Narayan Singh), Address- At Gram: Sadar Gangti, Mirzachowki, District- Godda, Jharkhand -813208	
3	Lease Address	: Village – Lohatamba, Thana- Rajabhitta, District – Godda, State – Jharkhand.	
4	Lease Area	: 2.954 ha	Acres- 7.30 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 30 Lakhs	
7	EMP Budget	: Capital: 4.368 Lakhs	Recurring: 4.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 718091.70 cum	Tonnes: 2082465.94 tons
11	Mine Life	: 10.00 years	
12	Man power	: 31	
13	Water Requirement	: 10.10 KLD(Drinking: 1.085 KLD, Dust Suppression: 5.835 KLD, Plantation: 3.118 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: 500 KVA	
16	Crusher	: No crusher	
17	Nearest Water Body	: Sundar River, 5.8 km, West direction	
18	Nearest Habitation	: Lohatamba, (620 meters)	
19	Nearest Rail Station	: Godda Railway station, approx. 28.0 km in SW direction	
20	Nearest Air Port	: Deoghar Airport, 91.8 km, in SW direction	
21	Nearest Forest	: Garial Reserve Forest, approx.5.0 km, W direction Fairly Dense Mixed Jungle, approx.7.0 km, SE direction	

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22	Road & Highways	:	SH-16 , Approx. 10.00 km, West direction
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CO-ORDINATES

1	Latitude	From 24°57'59.8939"N	To 24°58'08.4690"N
2	Longitude	From 87°24'35.8655"E	To 87°24'42.3210"E

LAND DETAILS

Khata no.	Plot no.
5	568, 574, 582
8	569, 570, 571, 578
18	566
23	581
35	576, 577, 580
49	565(P), 567, 572, 573, 579

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Godda vide memo no. 379/M , dated 12.03.2021.
2	CO	:	The CO, Boarjor vide letter no. 497, dated 12.09.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Godda vide memo no. 752/M, dated 02.07.2022 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2076, dated 25.09.2019 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.
5	DFO Forest Distance	:	DFO, Godda Forest Division vide letter no. 1523 dated 20.08.2019 certified that the distance of reserved / protected forest is more

			than 250 m from the project site.
6	DSR	:	This project is mentioned in District Survey Report (DSR) of Godda district.
7	Gram Sabha	:	Gram Sabha conducted on 02.08.2019.
8	Mine Plan Approval	:	Deputy Director Mines, Santhal Pargana Circle, Dumka vide letter no. 101/DDM dated 08.04.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	2.954 ha Life of Mine – 10 Years
3	Waste Generation	:	5 years–30175.02 cu.m
4	Stripping Ratio	:	1: 0.4
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	113 AMSL to 130 AMSL
8	Ground Level Elevation	:	113 AMSL
9	Ultimate Working Depth	:	108 AMSL (5mbgl)
10	Water Table	:	98 AMSL (15mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	110 Kg/day
13	Diesel/Fuel requirement	:	110 l/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	208246.59	71809.16	8390.43	118mRL - 128mRL
2 nd	208071.38	71748.75	5525.25	118mRL - 118mRL
3 rd	208246.59	71809.16	8705.25	113mRL - 118mRL
4 th	208071.38	71748.75	3779.43	113mRL - 113mRL
5 th	208246.59	71809.16	3774.66	113mRL - 113mRL
Total	1040619.70	358924.98	30175.02	



Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	1.482	2.382 (Entire area shall be left as water reservoir).
Road	0.059	0.009	0.005
Waste Dump	Nil	0.658	Nil (waste dump to be removed and backfilled)
Crusher	Nil	Nil	Nil
Safety Zone	Nil	0.567 (Plantation)	0.567 (Plantation)
Total	0.059	2.716	2.954
Unused Area	2.895	0.238	0.000
Lease hold Area	2.954	2.954	2.954

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.567ha	907
2	Haul /Approach Road	:	0.50 km	652

- 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.

Solid Waste Management

- Waste Generation will be 30175.02 cum (dump area- 0.658 ha) during the plan period. During plan period the proposed waste shall be temporarily dump on western side of the applied area.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of

suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.

- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.

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 Lohatamba Stone Deposit - I of M/s M.N. Enterprises (Prop. : Sri Hriday Narayan Singh), Village : Lohatamba, Thana : Rajabhitta, Distt. : Godda, Jharkhand (2.954 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Lohatamba Stone Deposit - II of M/s M.N. Enterprises (Prop. : Sri Hriday Narayan Singh), Village : Lohatamba, Thana : Rajabhitta, Distt. : Godda, Jharkhand (2.764 Ha).

(Proposal No. : SIA/JH/MIN/ 282429/2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity-73520.50 cu.m/annum or 213209.45 TPA

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

This is a new project which has been taken for appraisal on 17.06.2023.

Project and Location Details :

Sl	Parameter	Details	
1	Project Name	: Lohatamba Stone Deposit - II	
2	Lessee:	: M/S M N Enterprises (Proprietor - Sri HridayNarayan Singh), Address- At Gram: Sadar Gangti, Mirzachowki, District- Godda, Jharkhand -813208	
3	Lease Address	: Village – Lohatamba, Thana- Rajabhitta, District – Godda, State – Jharkhand.	
4	Lease Area	: 2.764 ha	Acres- 6.83 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 25 Lakhs	
7	EMP Budget	: Capital: 2.932 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.50 Lakhs	
9	New or Expansion	: New	
10	Mineable	: Cu.m.: 734665.40 cum	Tonnes: 2130529.66 tons

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	Reserves		
11	Mine Life	:	10.00 years
12	Man power	:	33
13	Water Requirement	:	6.4 KLD(Drinking: 1.155 KLD, Dust Suppression: 2.325 KLD, Plantation: 2.882 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	500 KVA
16	Crusher	:	No crusher
17	Nearest Water Body	:	Sundar River, 5.0 km, West direction
18	Nearest Habitation	:	Dumaria (590 meters)
19	Nearest Rail Station	:	Godda Railway station, approx. 30.0 km in SW direction
20	Nearest Air Port	:	Deoghar Airport, 95.0 km, in SW direction
21	Nearest Forest	:	Garial Reserve Forest, approx.8.0 km, W direction Fairly Dense Mixed Jungle, approx.3.0 km, SE direction
22	Road & Highways	:	SH-16 , Approx. 9.0 km, West direction

CO-ORDINATES

1	Latitude	From 24°57'51.9959"N	To 24°57'59.4417"N
2	Longitude	From 87°25'43.1013"E	To 87°25'50.9231"E

LAND DETAILS

Khata no.	Plot no.
6	760
45	757(P)
46	765,766,767
26	768

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Godda vide memo no. 377/M , dated 12.03.2021
2	CO	:	The CO, Boarijor vide letter no. 496, dated 12.09.2019 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Godda vide memo no. 753/M, dated 02.07.2022 certified

		that 02 other mining lease area (2.50 acre & 3.03 acre) exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 2070, dated 25.09.2019 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.
5	DFO Forest Distance	: DFO, Godda Forest Division vide letter no. 1521 dated 20.08.2019 certified that the distance of reserved / protected forest is more than 250 m from the proposed project site.
6	DSR	: This project is mentioned in District Survey Report (DSR) of Godda district.
7	Gram Sabha	: Gram Sabha conducted on 05.10.2017.
8	Mine Plan Approval	: Deputy Director Mines, Santhal Pargana Circle, Dumka vide letter no. 103/DDM, dated 08.04.2021.

Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	2.764 ha
			Life of Mine – 10 Years
3	Waste Generation	:	5 years–28279.30 cu.m (1cu.m = 2.29 MT)
4	Stripping Ratio	:	1: 0.02
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	141 AMSL to 164 AMSL
8	Ground Level Elevation	:	141 AMSL
9	Ultimate Working Depth	:	136 AMSL (5mbgl)
10	Water Table	:	126 AMSL (15mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	110 kg/day
13	Diesel/Fuel requirement	:	110 l/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	213209.45	73520.50	7561.50	156mRL - 161mRL
2 nd	212818.24	73385.60	5424.40	151mRL - 156mRL

3 rd	213209.45	73520.50	5573.50	151mRL - 151mRL
4 th	212818.24	73385.60	3862.40	146mRL - 146mRL
5 th	213209.45	73520.50	5857.50	146mRL - 146mRL
Total	1065264.83	367332.70	28279.30	

Land Use :

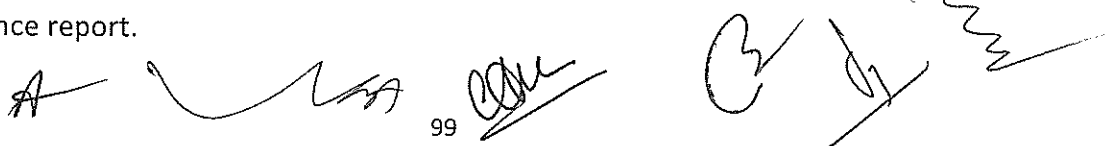
Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	1.690	2.120 (Entire area shall be left as water reservoir).
Road	0.045	0.011	0.003
Waste Dump	Nil	0.393	Nil (waste dump to be removed and backfilled)
Crusher	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.441	0.441
Total	0.045	2.535	2.764
Unused Area	2.719	0.29	0.200
Lease hold Area	2.764	2.764	2.764

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	Location		Area/Length	No of Trees
1	Safety Zone	:	0.441ha	706
2	Haul /Approach Road	:	0.02 km	735

- 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.



Solid Waste Management

- Waste Generation will be 28279.30 cum (dump area- 0.393 ha) during the plan period. During plan period the proposed waste shall be temporarily dump on western side of the applied area.

Water Quality Management

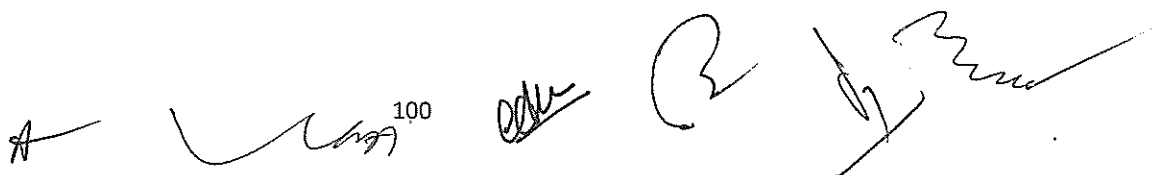
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.



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- 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.

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 Lohatamba Stone Deposit - II of M/s M.N. Enterprises (Prop. : Sri Hriday Narayan Singh), Village : Lohatamba, Thana : Rajabhitta, Distt. : Godda, Jharkhand (2.764 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

8. Lohatamba Stone Deposit - III of M/s M.N. Enterprises (Prop. : Sri Hriday Narayan Singh), Village : Lohatamba, Thana : Rajabhitta, Distt. : Godda, Jharkhand (1.655 Ha).

(Proposal No. : SIA/JH/MIN/ 282883/2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 42489.81cum/annum or 106224.54 TPA

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

This is a new project which has been taken for appraisal on 17.06.2023

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Lohatamba Stone Deposit-III
2	Lessee:	: M/S M N Enterprises (Proprietor: Sri HridayNarayan Singh) S/o Late Ram Prasad Singh,

A  101    

		Gram: Sadar Gangti, Mirzachowki, District- Godda, Jharkhand	
3	Lease Address	: Village – Lohatamba, Thana- Rajabhitta, District – Godda, State :- Jharkhand.	
4	Lease Area	: 1.655 ha	Acres- 4.09 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs 20 Lakhs	
7	EMP Budget	: Capital: 3.42 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 3,66,340.9 cum	Tonnes: 1,062,388.61 tons
11	Mine Life	: 10 years	
12	Man power	: 24	
13	Water Requirement	: 7.30 KLD (Drinking: 0.79 KLD, Dust Suppression: 3.65 KLD, Plantation: 2.80 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: 500 KVA	
16	Crusher	: No crusher	
17	Nearest Water Body	: Sunder River, 6.4 km, N direction.	
18	Nearest Habitation	: Dumaria (740 Meters)	
19	Nearest Rail Station	: Godda Railway station, approx. 28.5 km	
20	Nearest Air Port	: Deoghar International Airport, Deoghar approx. 103.0 km.	
21	Nearest Forest	: Protected Forest near Dhangora Pahar, Approx. 8.0 km. in WNW direction. Protected Forest near Dharni Pahar village, Approx. 9.0 km. in WSW direction.	
22	Road & Highways	: NH-133, Approx. 11.30 km. in WNW direction. SH-18, Approx. 14.80 km. in E direction.	


CO-ORDINATES

1	Latitude	From 24°57'51.8597"N	To 24°57'46.5501"N
2	Longitude	From 87°25'46.0765"E	To 87°25'53.2187"E

LAND DETAILS

Khata no.	Plot no.
6	849
46	848

102



STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Godda vide memo no. 378/M dated 12.03.2021.
2	CO	:	The CO, Boarjor vide letter no. 498 dated 12.09.2019 has mentioned the plot no. of the project is not recorded as jungle Jhari "Raiyati" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Godda vide memo no. 751/M, dated 02.07.2022 certified that there are two other mining leases area (2.50 acre & 3.03 acre) exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2068, dated 25.09.2019 certified that the proposed project site is outside Eco Sensitive Zone of Udhwa Lake Bird Sanctuary.
5	DFO Forest Distance	:	DFO, Godda Forest Division vide letter no. 1522, dated 20.08.2019 certified that the distance of reserved / protected forest is more than 250 m from the proposed project site.
6	DSR	:	This project is mentioned in District Survey Report (DSR) of Godda district.
7	Gram Sabha	:	Gram Sabha conducted on 05.10.2017.
8	Mine Plan Approval	:	Deputy Director Mines, Santhal Pargana Circle, Dumka vide letter no. 102/DDM dated 08.04.2021.

Working Details

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	2.764 ha
3	Waste Generation	:	5 years- 15425.76 cu.m (1cum=2.9mt)
4	Stripping Ratio	:	1: 0.03
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	170 AMSL to 158 AMSL
8	Ground Level Elevation	:	158 AMSL
9	Ultimate Working Depth	:	153 AMSL (5 mbgl)
10	Water Table	:	143 AMSL (15 mbgl)
11	Topography of Mine	:	Area represents an undulating topography.

12	Explosive Requirement	:	110 Kg/day
13	Diesel/Fuel requirement	:	110 lt/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 st	106224.54	36629.15	6216.85	165 mRL – 165 mRL
2 nd	106215.72	36626.11	1927.69	159 mRL – 159 mRL
3 rd	106144.64	36601.6	2442.40	159 mRL – 159 mRL
4 th	106177.70	36613.0	2911.00	159 mRL – 153 mRL
5 th	106222.88	36628.57	1927.82	153 mRL – 153 mRL
Total	530985.48	183098.4	15425.76	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	Nil	0.820	1.219 (Entire area shall be left as water reservoir)
Road	Nil	0.013	0.005
Waste dump	Nil	0.321	Nil (waste dump to be removed and backfilled)
Crusher	Nil	Nil	Nil
Safety Zone	Nil	0.431 (Plantation)	0.431 (Plantation)
Total	Nil	1.585	1.655
Unused Area	1.655	0.070	0.00
Lease Hold Area	1.655	1.655	1.655

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.431 ha	1100
2	Haul /Approach Road	: 0.250 km	300

- 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.

Solid Waste Management

- Waste Generation will be 15425.76 cum/annum or 44,734.70 TPA (dump area- 0.321 ha) during the plan period. During Plan period gritty soil removed will be dumped at western part of the area with suitable precautions like parapet wall and garland drain. Some quantity of this soil will be used for road dressing and plantation.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 10m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.



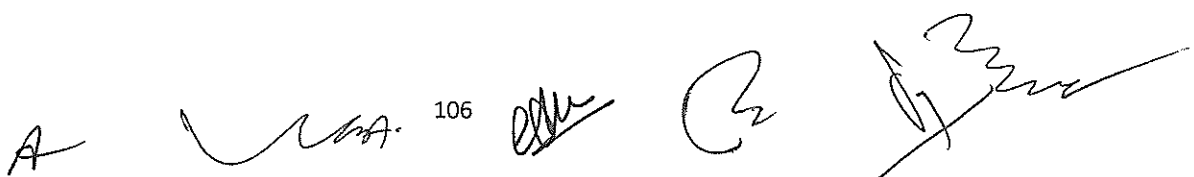
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.

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 Lohatamba Stone Deposit - III of M/s M.N. Enterprises (Prop. : Sri Hriday Narayan Singh), Village : Lohatamba, Thana : Rajabhitta, Distt. : Godda, Jharkhand (1.655 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

106



Day 4 : June 18th, 2023 [Sunday]

Consideration of Proposals

1. "Vinayak Square" of M/s Vidhi Developers Pvt. Ltd., Village : Dobo, Tehsil : Chandil, Distt. : Seraikela-Kharsawan, Jharkhand.

(Proposal No. SIA/JH/INFRA2/ 431687/2023).

Name of the consultant : Crystal Consultants, Ranchi

This is a case of violation which has been taken for reappraisal on 18.06.2023

The project is a violation case since the project proponent has started the construction without prior Environmental Clearance from State Environment Impact Assessment Authority (SEIAA), Jharkhand.

However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

"The interim order passed by the Madras high Court appears to be misconceived. However, this court is not hearing an Appeal from that interim order. The interim stay passed by the Madras High court can have no application of operations of the Standard Operating Procedure to the projects in territories beyond the territorial jurisdiction of Madras High court. However, final decision may have been taken in accordance with the Orders/ Rules prevailing prior to 7th July, 2021."

Thus, the SEIAA, Jharkhand, in the light of Ho'ble Supreme Court order dated 9th December 2021, Office Memorandum no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India and Standard Operating Procedure (SOP) issued by MoEF&CC, Govt. of India vide its file number 22-21/2020-IA-III, dated 07.07.2021, the matter has been taken for consideration & recommendation of EC for violation projects.

Project Category : 8 (a) Category B2 – (at par with B1 being violation case)

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 102nd meeting held on 21-25.03.2023 and SEIAA, Jharkhand has approved the violation ToRs in 103rd meeting held on 01st & 02nd April, 2023. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2022-23/2771/2023/26, date 12.04.2023. The final EIA / EMP submitted by PP to SEIAA on 12.06.2023 and which was forwarded to SEAC on 12.06.2023.

Vinayak Square of M/s Vidhi Developers Pvt. Ltd. is a proposed building construction project under schedule 8(a) of EIA Notification, 2006 & it comprises two residential building blocks.

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107









Details of the project :

Particular	Details
Project Name	VINAYAK SQUARE
Proponent	M/s Vidhi Developers Pvt. Ltd. Vinayak Garden, Tata Kandra Main Road, Opp. Sudha Diary, Dhirajganj, Gamharia, Seraikela – Kharsawan – 832108 (Jharkhand).
E-mail	info@vidhidevelopers.com
Type of Building	Residential
Coordinate	22° 50' 34.08" N 86° 10' 3.49" E
Mauza	Dobo
Tehsil	Chandil
District	Seraikella Kharsawan
State	Jharkhand
Plot Area	10515.91 Sq. m.
Ground Coverage Permissible	35.00 %
Ground Coverage Consume	28.73%
FAR Permissible	3.00
FAR Consume	3.00
Height	43.34 mtr
Total Built-Up Area	43781.41 Sq. m.
No. of Floor	Tower 1 : G + 12 Tower 2 : G + 13
No. of Building Block	2
Building Configuration	206 2 BHK : 36 3 BHK : 109 4 BHK : 61
Municipal Solid Waste	832.20 Kg/Day (Including Bio-degradable Solid Waste is 332.88 Kg/Day & Non Bio-degradable Solid Waste is 499.32 Kg/ Day)
Population	1387
Parking	Car Parking : 243 Visitor Car Parking : 20 Two Wheeler Parking : 216 Area for Parking 7626.27 Sq. m.
Power Requirement	500 KVA Source : Jharkhand State Electricity Board
Power Back-up	350 KVA
RWH Pits	2 Number
Total Water Demand	180.63 KLD
Total Fresh Water Demand	97.09 KLD

A  108   

Total Treated Water Demand	83.54 KLD
Volume of Waste Water	155 KLD
Capacity of STP	160KLD
Project Cost	70 Crore (EMP cost : 30.25 Lakh)
Geotechnical Investigation	By R. R. M & Associates

LAND DETAILS :

Khata No.	Plot No.
200	984, 987, 989 & 990

Population Estimation

Construction Phase : 150 labors will attend during construction phase.

Operational Phase

	Configuration	Number of Dwelling Units	Number of persons as per NBC	Population
Residential Building 2 BHK : 36 3 BHK : 109 4 BHK : 61	1 BHK	0	4	0
	2 BHK	36	5	180
	3 BHK	109	6	654
	4 BHK	61	7	427
	Sub-Total			1261
	Floating Population (10% of Total Population)			126
	Total			1387

Municipal Solid Waste

Construction Phase

Building Type	Municipal Solid Waste @0.2 Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
Residential Building	30 Kg / Day	12 Kg / Day	18 Kg / Day

Operational Phase

Building Type	Municipal Solid Waste @0.6 Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
Residential Building	832.20 Kg / Day	332.88Kg / Day	499.32Kg / Day

Water & Waste Water

Construction Phase

Potable : 1.5 KLD @ 10 L per Person

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109







Flushing : 2.5 KLD @ 15 L per Person
 Construction work : 25 KLD
Total : 29 KLD
 Source – Municipal Tanker Supply

Operational Phase

Water Balance (KLD)		Source
Domestic @70L/P/Day	97.09	Fresh Water Water Supply System
Flushing @35L/P/Day	48.54	Treated Water
Horticulture	5.00	Treated Water
Dust Suppression	10.00	Treated Water
Car Washing	20.00	Treated Water
Total	180.63	
Fresh Water Demand	97.09	
Treated Water Demand	83.54	

STP & Waste Water Management :

STP Calculation (KLD)			
Total Domestic Water	97.09	77.67	80% of Domestic Water is Waste Water
Total Flushing Water	48.54	48.54	100% of Flushing Water is Waste Water
Total Volume of Waste Water		126.21	
STP Capacity		150.00	
Waste Water Management (KLD)			
Volume of Treated Water from STP <i>i.e., 80% of Waste Water</i>		101	
Break-Up			
Flushing		48.54	
Horticulture		10.00	
Dust Suppression		5.00	
Car Washing		20.00	
Discharge		17.45	
Loss 20 % loss on account of evaporation, loss in conveyance and processing.		25.21	

110

Rain Water Harvesting

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

Catchment Area(m ²)	Runoff Coefficient	Intensity of Rainfall in 24 hr. (mm)	Maximum Intensity of Rainfall hourly (mm/hr)	Retention Time - Runoff (m ³ /15 mins)	Runoff 60 minutes
2064.48	0.85	180	9	3.95	15.79
Volume of desilting Tank (m ³)	Volume of Recharge Pit (m ³ Per pit)	Total Volume (M ³)	Runoff 60 minutes	No. of pits required	No. of pits proposed
3.375	3.375	6.75	15.79	2.34	2

CONNECTIVITY

- Nearest Highway is NH-33 which is about 350 m away.
- Nearest Railway is Tatanagar Railway Station, which is about 12.4 Km.

Nearest Airport is Birsa Munda Airport Ranchi, which is about 120 Km.

STATUTORY CLEARANCES :

1	DFO Forest Distance	DFO, Seraikela Forest Division vide letter no. : 1055, dated 27.05.2022 certified that the distance of notified forest is more than 250 m from proposed project site.
2	DFO wildlife	: DFO, Dalma Elephant Project vide letter no. : 87, dated : 07.01.2023 certified that proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
3	CO certificate	: The CO, Chandil vide vide letter no. 121, dated 10.02.2023 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyon & Register II.
4	AAI NOC	: Airport authority of India issued NOC vide NOC ID JAMS/EAST / B/101522/702745, dated 22.11.2022 valid upto 31.11.2030.
5	Fire Department	: A fire advisory has been issued by Fire Department, Jharkhad, Ranchi vide vide memo no. 2153/Tech./2022, dated 23.05.2022.

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6	Building Plan	:	Building plan approved by Saraikela Kharsawan Zila Parishad vide memo no. 0037, dated 22.08.2022.
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On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 17,06,250 as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Particulars	Amount (INR)
Village Road Development @ DOBO Length: 300 m Width: 3.5 m @Rs. 952/- per square meter	10,00,000.00
Plantation on both side of road in DOBO Length: 300m 2 rows Centre to Centre Tree plantation (3m X 3m) No. of Trees: 500 Costing per tree @ Rs. 300/-	1,50,000.00
Plantation at Tamulia at Plot No. 618/911 Khata No. 89 in the total land area	4,00,000.00
Football ground beautification in front of Vinayak Square, DOBO	1,56,250.00
Total	17,06,250.00

- I. The Committee visited the project site on 17.06.2023 to verify the details submitted by PAs. During inspection, Committee saw that the STP is installed and is operational, RWH has been installed with 02 no. of pits, dedicated solid waste handling site was in place and green belt has been developed. Fly ash dump site was existing before initiation of the project. It has been stabilized by development of green belt & green cover on the entire fly ash dump site and has improved aesthetic of the area.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. **17,06,250**.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. **17,06,250** towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remediation plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.

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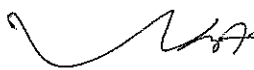
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- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- IX. The penalty of Rupees 2,82,344 being 0.50% (Suo Moto) of the project cost incurred till date (Rs. 5,84,68,752) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- X. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided, the Committee decided that the proposal for "Vinayak Square" of M/s Vidhi Developers Pvt. Ltd., Village : Dobo, Tehsil : Chandil, Distt. : Seraikela-Kharsawan, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure –III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- XI. Sufficient number of EV fast charging points to be installed.

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- XII. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.
- XIII. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management.
- XIV. A cycling tract to be provided in residential complex so as to save on fuel and make in campus movement environment friendly.

2. Sangram Sai Township Phase 2 of M/s Tata Steel Limited, Village :Mahudi, Tehsil : Noamundi, Distt. : West Singhbhum, Jharkhand.

(Proposal No. SIA/JH/INFRA2/ 433155 /2023).

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




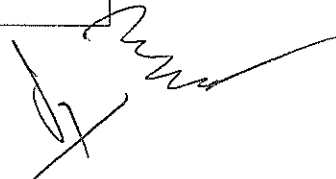
This is a new project which has been taken for appraisal on 18.06.2023.

Project is classified as Category 8(a) as per EIA Notification as the built-up area is less than 1,50,000 sqm. and development area is less than 50 ha.

Sangram Sai Township Phase 2 of Tata Steel Ltd. is a building construction project under schedule 8(a) of EIA notification, 2006 & it comprises of four blocks of residential building. Project Proponent has proposed to build four building blocks having total built-up are 34111.03 m² as per approved building plan.

Project Details :

Particular	Details
Project Name	Sangram Sai Township Phase 2
Proponent	Tata Steel Ltd.
Type of Building	Residential Building
Latitude	22° 9'34.36"N
Longitude	85°30'7.32"E
Mauza	Mahudi
Tehsil	Noamundi
Thana	Mahudi
Thana No.	744
District	West Singhbhum
State	Jharkhand
Plot Area	14152.05 Sq.m.
Tree Cover	1986.11 Sq. m. (14.03%)

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Permissible FAR	2.00 (28304.10 sq. m.)
Consumed FAR	1.82 (25750.12 sq. m.)
Permissible Ground Coverage	50.00 % i.e. 7076.02 Sq.m.
Consumed Ground Coverage	28.57 % i.e. 3938.58 Sq.m.
No. of Building Block	5 Residential Building Blocks Block E Block F Block G Block H A General Store
Total Built-Up Area	Total Built- Up Area: 34111.03m²
No. of Floor	Block E : 9 Floor Block F : 9 Floor Block G : 9 Floor Block H : 9 Floor A Employee Cooperative Store : 1 Floor
Height	Block E : 31.65 m Block F : 31.65 m Block G : 31.65 m Block H : 31.65 m A General Store : 3.30 m
Building Configuration	Total Dwelling Units: 288 (2 BHK) 72 Units X 4 Blocks
Population	1584 including 10% floating population
Parking	Two Wheeler 264 Car 137 Area : 2978.51 m ²
Municipal Solid Waste	Total Municipal Solid Waste = 864.00 Kg / Day Bio-Degradable = 345.60 Kg / Day Non-Biodegradable= 518.40Kg / Day
Power Requirement	549 KVA Source : JSEB
Power Back-Up	Centralized Power Back-up System of Noamundi Iron Ore Mine (TSL)
RWH Pits	4 Pits
Total Fresh Water Requirement	142.56 KLD
Source of Fresh Water	Existing Water Supply System
Reuse of treated water for flushing	71.28 KLD
Volume of Waste Water	185.33 KLD
Capacity of STP	850.00 KLD
Utilization of Treated Water	333.59 KLD (90 % of total waste water) Reuse of Treated Water from STP Flushing : 71.28 KLD

	Dust Suppression : 20 KLD Horticulture : 20 KLD Discharge (Utilized back in Plant at Noamundi) : 222.31 KLD
Total Water Consumption	Treated Water 111.28 + Fresh Water 332.64 = 443.92 KLD
Project Cost	Rs. 144.26 Crores
Connectivity	
Railway	Noamundi Railway Station 2 Km
Airport	Sonari Airport, Airport 126 Km away & Bisra Munda Airport Ranchi 221 Km away.
Road	Kolebira – Hat Gamharia Road (SH – 04) adjacent to the project site.

Plot Area Break – up

Block E	1035.13 Sq.m.
Block F	1035.13 Sq.m.
Block G	866.68 Sq.m.
Block G	866.68 Sq.m.
STP	291 Sq.m.

Khata no. & Plot no. of the project :

Khata no.	Plot no.
02	597 (P)

Population Estimation

Construction Phase : 150 labors will attend during construction phase.

Operational Phase

Number of Residential Building Block = 4

Number of 2 BHK unit in each Block = 72

i.e. Total 2 BHK Unit = 288

As per NBC 2006 norms **5 person** can be accommodate in **2 BHK** Residential Unit;

Hence Estimated population = 5 X 288 = 1440

10 % Floating Population = 1440 X 10% = 144

Total Population = 1440 + 144 = 1584

Municipal Solid Waste

Construction Phase

Building Type	Municipal Solid Waste @0.2 Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)

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Residential Building	30 Kg / Day	12 Kg / Day	18 Kg / Day
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Operational Phase

Building Type	Municipal Solid Waste @0.6 Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
Residential Building	864.00 Kg / Day	345.60 Kg / Day	518.40 Kg / Day

Water & Waste Water

Construction Phase

- Potable : 1.5 KLD @ 10 L per Person
- Flushing : 2.5 KLD @ 15 L per Person
- Construction work : 25 KLD
- Total : 29 KLD**

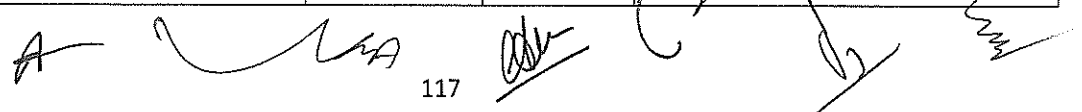
Source – Tata Water Supply System

Operational Phase

Water Balance (KLD)		Source
Domestic @ 90L	142.56	Tata Water Supply System
Flushing @ 45L	71.28	Treated Water
Horticulture	10.00	Treated Water
Dust Suppression	10.00	Treated Water
Discharge	56.98	Treated Water
Total	290.82	
Fresh Water Demand	142.56	
Treated Water Demand	148.26	From STP

STP & Waste Water Management

STP Calculation (KLD)			
Total Domestic Water	332.640	299.376	90% of Domestic Water is Waste Water
Total Flushing Water	71.28	71.28	100% of Flushing Water is Waste Water



Total Volume of Waste Water	370.656
STP Capacity	850.00
Waste Water Management (KLD)	
Volume of Treated Water from STP i.e., 90% of Waste Water	333.59
Break-Up	
Flushing	71.28
Horticulture	20.00
Dust Suppression	20.00
Utilization back in Noamundi Plant	222.31

Rain Water Harvesting

4 Rainwater Harvesting pits are proposed. Rain water from roof tops will be drained through rain water vertical down take pipes. These vertical down take pipes shall be located at suitable locations inside the shafts or periphery of the building. The terrace will be sloped. The down take pipes will be connected to the storm water network and then to Rainwater Harvesting Pits.

Catchment Area(m2)	Runoff Coefficient	Intensity of Rainfall in 24 hr. (mm)	Maximum Intensity of Rainfall hourly (mm/hr)	Retention Time - Runoff (m3/15 mins)	Runoff 60 minutes
3362.62	0.85	180	9	6.43	25.72
Volume of desilting Tank (m3)	Volume of Recharge Pit (m3 Per pit)	Total Volume (M3)	Runoff 60 minutes	No. of pits required	No. of pits proposed
3.375	3.375	6.75	25.72	3.81	4

Solid Waste Management Construction Phase

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

Top Soil would be separately stored at pre-defined location within the site & preserved for landscaping. Sub – Soil would be stored for reuse in road making, plinth filling, etc.

Brickbats wastes of concrete would also be stored for road construction, etc. Surplus C & D waste would be handed over to nearby communities. E-Waste & Hazardous waste (cans of paints_ would be collected in separates containers to be sold to authorized recyclers. Recyclable wastes including bags, packing, pcs of steel rods shall be given to community people/villagers as required,

Operational Phase

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

✓ Recyclable Waste

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- ✓ Wet (Bio-Degradable) Waste - Green
- ✓ E-Waste - Yellow
- ✓ Hazardous Waste - Black

The waste generated will be treated in the existing solid waste management facility of Tata Steel Limited at Noamundi.

E-Waste & Hazardous Wastes would be handed over to authorized recyclers.

Energy Conservation

Energy Conservation will be 15% achieve through;

Innovative Design and Advanced Architecture

- ✓ **Roof Top Heating Elimination**

Creation of roof insulation (use of insulation tiles) for preventing roof top heating due to intense natural heating during daytime, preventing the need of cooling systems.

- ✓ **Use of Shear Wall Construction Method**

Shear wall construction method has been adopted instead of the conventional brick and mortar method which act as an insulator maintaining a difference between external and internal temperatures thereby keeping the interiors cooler.

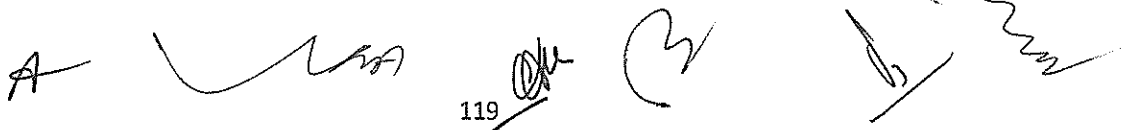
- ✓ **Large Windows and Balcony for proper natural daylight**

Modern Architecture with huge glaze, allowing penetration of maximum daylight, saving energy during the daytime.

Statutory Clearance :

1	DFO Forest Distance		DFO, Chaibasa Forest Division vide letter no. : 139, dated 19.01.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO wildlife	:	DFO, Dalma Elephant Project vide letter no. : 319, dated : 25.02.2023 certified that proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
3	CO certificate	:	The CO, Noamundi vide vide letter no. 48, dated 01.02.2023 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyani & Register II.
4	AAI NOC	:	Airport authority of India issued NOC vide NOC ID ROUR/EAST /B/040623/751035, dated 30.05.2023 valid upto 29.05.2031.
5	Fire Department	:	A fire advisory has been issued by Fire Department, Jharkhad, Ranchi vide vide memo no. 1572/Tech./ 2023, dated 21.03.2023.
6	Building Plan	:	Conceptual Plan submitted.

Based on the presentation made and information provided, the Committee decided that the proposal for Sangram Sai Township Phase 2 of M/s Tata Steel Limited, Village :Mahudi, Tehsil : Noamundi, Distt. : West Singhbhum, Jharkhand is recommended for grant of EC. The various



conditions for grant of EC is enclosed as Annexure –III alongwith the following specific conditions :

- I. The Project Authorities will ensure that the budget for EMP is not less than 5% of the total project cost.
- II. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- III. All raw material to be stored only under covered shed.
- IV. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- V. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- VI. Trees should be developed & maintained not less than 15% of project area.
- VII. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VIII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- IX. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- X. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- XI. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- XII. Sufficient number of EV fast charging points to be installed.
- XIII. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.
- XIV. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management.
- XV. A cycling tract to be provided in residential complex so as to save on fuel and make in campus movement environment friendly.

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3. Mahjori Stone Deposit of M/s Margomunda Stone Mines (Partners : Shri Braj Kishor Yadav, Shri Sanoj Kumar, Md. Babar Ansari and Shri Tulsai Rai), Village : Mahjori, Tehsil : Margomunda, Distt. : Deoghar, Jharkhand (0.81 Ha).

(Proposal No. : SIA/JH/MIN/ 428680/2023).

Project Category: B2 – Application for Environment Clearance.

EC Application for: Boulder Stone: 12968 Cu.M per year i.e. 36309 Tonnes per year

Waste: 3408 Cu.m

DG Set : NA

Mobile Crusher- NA

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

This is a new project which has been taken for appraisal on 18.06.2023.

Project and Location Details :

Sl	Parameter	Details	
1	Project Name	: Mahjori Stone Deposit	
2	Lessee:	: Margomunda Stone Mines	
3	Lease Address	: Mouza Mahjori, Thana- Margomunda, Thana No. 455, Dist- Deoghar, Jharkhand	
4	Lease Area	: Ha: 0.81 ha	Acres: 2.0 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: 25.00 Lakhs	
7	EMP Budget	: Capital: 7.87 Lakhs	Recurring: 78,700 Thousands
8	CSR / CER Budget	: Rs. 0.50 Lakhs	
9	New or Expansion	: New Project	
10	Mineable Reserves	: Cu.M: 1,29,536 Cu. M.	Tonnes:3,62,702 Tonnes
11	Mine Life	: 10 years	
12	Man power	: 30	
13	Water Requirement	: 35.75 KLD (Drinking:0.3 KLD, Dust Suppression: 30 KLD, Plantation:3.875KLD)	
14	Water Source	: Water for drinking purpose will be sourced from hired tankers. For sprinkling & plantation water will be taken from hired tankers.	
15	DG Set / power	: NA	
16	Crusher	: No	
17	Nearest Water Body	: Jayanti river 3.8 KM	
18	Nearest Habitation	: Madhupur, 6.72 KM	
19	Nearest Rail Station	: Madankata Railway Station 9.55 KM	
20	Nearest Air Port	: Deoghar Airport 32.62 KM	
21	Nearest Forest	: 3.5 km North-West	
22	Road & Highways	: NH- 114A, at a distance of 11.52 KM	

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CO-ORDINATES

1	Latitude	N 24°09'44.96"	N 24°09'49.06"
2	Longitude	E 86°36'34.13"	E 86°36'37.74"

LAND DETAILS

1	Mouza - Mahjori	Khata No. 45	Plot No's- 1266, 1267(P) & 1271(P)
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STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Deoghar vide letter no. 88, dated 21.01.2023
2	CO	:	The CO, Margomunda vide letter no. 213/Ra, dated 19.09.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Deoghar vide memo no. 383/M, dated 28.03.2023 certified that 02 other lease areas (2.00 acre & 2.38 acre) exists within 500 m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	:	Divisional Forest Officer, Wildlife Hazaribagh vide letter no. 2538, dated 17.12.2022 certified that the proposed project is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Deoghar vide letter no. 1610, dated 18.11.2022 certified that the distance of reserved / protected forest is 794 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Deoghar vide letter no. 456/M, dated 13.04.2023 has informed that this project is part of District Survey Report (DSR) of Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Margomunda vide letter no. 14/Vi, Dated 05.01.2023 informed that Gram Sabha conducted on 26.12.2022.
8	Mine Plan Approval	:	Deputy Director of Mines, Santhal Pargana Circle, Dumka vide letter no. 270/DDM, dated 31.05.2023.

Working Details

1	Mining Method	:	Semi Mechanized. Jack Hammer, Drilling & Blasting to be used	
2	Quarry Area	:	5 years – 0.36 ha	Life of Mine – 0.56 ha
3	Waste Generation	:	5 years– 3408 Cu.M	Life of Mine – 5301.33Cu.M
4	Stripping Ratio	:	0.05:1	
5	Working Days	:	300	
6	Benches: size & No	:	6m x 6m, 5 nos.	
7	Elevation of Mine	:	240 m AMSL	
8	Ground Level Elevation	:	240 m AMSL	
9	Ultimate Working Depth	:	210 m AMSL	
10	Water Table	:	193 AMSL to 191 AMSL	
11	Topography of Mine	:	Gentle slope	
12	Explosive Requirement	:	31.5 Kg/day	
13	Diesel/Fuel requirement	:	(300 Litres/day)	

Production Details

Year	Production of stone in Tonnes	Production of stone in Cu.m	Production of soil in Cu.m	Intercalated waste in Cu.m
1 st Year	36,309	12,968	1300	683
2 nd Year	36,270	12,954	488	681
3 rd Year	36,269	12,953	0	682
4 th Year	36,136	12,906	0	679
5 th Year	36,309	12,968	0	683
Total	1,81,293	64,749	1788	3408

Land Use

Particulars	Existing Area in Hectare	Plan Period Area in Hectare	Conceptual Period		
			Water body (In Ha)	Greenbe lt (In Ha)	Public Use (In Ha)
Quarry	0	0.36	0.56	0	0
Plantation in Safety Zone	0	0.25	0	0.25	0
Road	0.01	0	0	0	0

Dumping	0	0.06	0	0	0
Parapet Wall and Garland Drain	0	0.01	0	0	0
Balance area unused	0.80	0.13	0	0	0
Total	0.81	0.81	0.81		

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No. of Trees
1	Safety Zone	: 0.25 ha	625 trees @ 2500 trees per ha
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 1 km	666 trees (@333 trees per km on both side in single row)

- 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.

Solid Waste Management

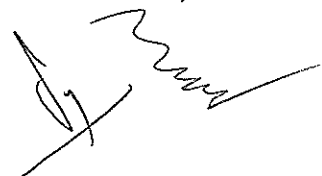
- Total (3408 Cu.m) of intercalated waste shall be generated which shall be use for haul road dressing during the plan period.
- **Water Quality Management**
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.

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- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.



125



- 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.

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 Mahjori Stone Deposit of M/s Margomunda Stone Mines (Partners : Shri Braj Kishor Yadav, Shri Sanoj Kumar, Md. Babar Ansari and Shri Tulsi Rai), Village : Mahjori, Tehsil : Margomunda, Distt. : Deoghar, Jharkhand (0.81 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

4. Proposed Residential Building "Privilege Home-Phase II " of M/s Privilege CCL Employees Grih Nirman Swawlambi Sahkari Samiti Ltd., Village : Bariyatu, Tehsil : Baragain, Distt. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/INFRA2/ 433168/2023)

Name of the consultant: Rian Enviro Private Limited, Patna, Bihar

This is a new project which has been taken for appraisal on 18.06.2023.

Project is classified as Category 8(a) as per EIA Notification as the built-up area is less than 1,50,000 sqm. and development area is less than 50 ha.

Privilege CCL Employees Grih Nirman Swawlambi Sahkari Samiti Ltd.is proposed to develop a Residential Building Project "Privilege Home-Phase II" on the total land area measuring 9958.88 m² located at Khata No. 8, Thana No. 193, Village-Baryatu, Dist. Ranchi, Jharkhand. The total build up area is 37685.1 m².

Salient Features of the Project

Sl. no.	Particulars	
1.	Latitude	23°23'17.45"N
2.	Longitude	85°21'32.75"E
3.	Plot Area	9958.88 Sqm.
4.	Proposed Ground Coverage (@30.38%)	3016 Sqm.
5.	Total residential built-up area (FAR)	29314.45 Sqm.

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Sl. no.	Particulars	
6.	Basement Floor Area	5664.17 Sqm.
7.	Others (Non FAR)	2706 Sqm.
8.	Total Built-up Area	37685.1 Sqm.
9.	Total Parking Proposed (ECS)	274 Nos. Basement Parking: 181 Nos. Ground Floor Parking: 93 Nos.
10.	Total Greenbelt area @22.71%	2262.37 Sqm.
11.	Rain Water Harvesting Pits (with size)	4 (15.71 Cumec/hour)
12.	STP Capacity	146 KLD
13.	Maximum Height of the Building (m)	Approx. 45 m.
14.	Power Requirement	~1171 KW (Source: The power will be supplied by Jharkhand State Electricity Board)
15.	Power Backup (DG sets)	2 x 250 KVA
16.	Total Water Requirement	~148 KLD
17.	Fresh / Domestic Water Requirement	~102 KLD
18.	Reuse of Recycled Water	~46 KLD
19.	Waste Water Generated	~122 KLD
20.	Solid Waste Generated (Operational)	~578 Kg/day
21.	Biodegradable Waste (Operational)	~231 Kg/day
22.	Non-Biodegradable Waste (Operational)	~347 Kg/day
23.	Number of Tower (Residential Building)	04 (Block 1 to 4)
24.	Basement	01
25.	Stories	B+G+14 (Maximum) Max. Height of the Building: 45 m.
26.	R+U Value of Material used (Glass)	U-value-5.6 w/m ² R-value- 0.17 w/m ²
27.	Total Cost of the project:	97.52 Cr.
28.	EMP Budget	During Construction: Capital: 41 Lakhs Recurring: 15 Lakhs

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Sl. no.	Particulars		
			Operational Cost: Capital: 121 Lakhs Recurring: 27.5 Lakhs
29.	Construction Phase:	i) Power Back-up	50 KVA each
		ii) Water Requirement & Source	Fresh water – 9 KLD Treated wastewater-12 KLD Source: Tanker Water
		iii) STP (Modular)	20 KLD
30.	Connectivity	Ranchi Junction Railway Station	Approx. 4.70 Km towards SW
		Namkum Railway Station	Approx. 4.40 Km towards SE
		Birsa Munda Airport	Approx. 8.53 Km SSW

Detailed Area Statement

Particulars	Area (Sqm.)
Plot Area	9958.88
Permissible FAR @ 3	29876.6
Proposed FAR @2.94	29314.5
Basement Floor Area	5664.17
Others (Non FAR)	2706
Total Built-up Area	37685.1
Basement Floor Area	5664.17
Total Built-up Area	37685.1
Ground Coverage@ (30.38%)	3016
Green Belt Area @ 22.71%	2262.37

Details of Site Surroundings and Connectivity

S. No.	Connectivity & Site Surroundings		
	Description		Distance and Direction
1.	Nearest Railway Station	Ranchi Junction Railway Station	Approx. 4.70 Km towards SW
		Namkum Railway Station	Approx. 4.40 Km towards SE
		Mesra Railway Station	Approx. 7.2 Km towards NE
		Tatisilwai Railway Station	Approx. 8.30 Km towards ESE
2.	Nearest Airport	Birsa Munda Airport, Ranchi	Approx. 8.53 Km SSW

A

128

128

128

S. No.	Connectivity & Site Surroundings		
		Description	Distance and Direction
3.	Nearest Village	Baryatu Jay Prakash Nagar Ayodhya Enclave Sharhul Nagar Morabadi	Approx. 0.97 km towards NNW Approx. 1.57 towards ENE Approx. 0.66 Km towards ESE Approx. 1.58 Km towards WSW Approx. 2.56 Km towards WNW
4.	Nearest Highway/Roads	NH-20 Bariatu Road Hazariabag Rd	Approx. 0.95 Km towards SE Approx. 1.0 Km towards NW Approx. 1.25 Km towards SE
5.	Nearest School & College	Surendranath Centenary School DAV School, Baryatu Rajkiya Prathmik Madhya Vidyalay, Sarkari School, Tiril Government High School, Sarhul Nagar	Approx. 1.4 Km towards ESE Approx. 1.4 km in North Approx. 0.74 Km towards SW Approx. 1.91 Km towards West
6.	Nearest Hospital	Samford Hospital Alam Hospital & Research Center Bhagwan Mahavir Super Specialty Hospital RIMS Hospital, Sarhul Nagar	Approx. 1.0 Km towards SSE Approx. 1.2 Km towards NNW Approx. 2.6 Km towards NE Approx. 1.15 Km towards WNW
7.	Places of worship	Shiv Mandir Rudeshwar Mahadev Mandir Hanuman Mandir	Approx. 0.86 Km towards South Approx. 0.45 Km towards SSE Approx. 0.48 Km towards SW
8.	Water Bodies	Jumar River Subarnarekha River Kanke Dam	Approx. 5.40 Km towards NE Approx. 3.40 Km towards SE Approx. 5.26 Km towards WNW

Details of Building Blocks

Blocks Details	3 BHK	4 BHK	Total Units
Block-1	56	0	56
Block-2	56	0	56

Block-3	56	0	56
Block-4	0	28	28
Total	168	28	196

Calculation of Population

Description	No. of units	Unit Population	Population
Main Dwelling Units (Residential) 3 BHK	168	6	1008
Main Dwelling Units (Residential) 4 BHK	28	7	196
Visitors (20% of the residential population)	...	...	241
Total			1445

Parking Details

Total No. of car Parking	
	E.C.S.
Parking on Ground	
Total No. of Open Parking	40
Total No. of Covered Parking	51
Total No. of back-to-back Parking	2
Total No. of Car Parking on Ground	93
Parking Statement Basement	
Total No. of Covered Parking	161
Total No. of back-to-back to Back Parking	20
Total No. of Car Parking on Basement	181
Total Car Parking Ground + Basement	274
Total no of Parking required	235

Calculation of Greenbelt

Total Plot Area	9958.88 Sqm.
Greenbelt area provided @ ~22.71% of Plot Area	2262.37 Sqm.
Total No. of Trees will be Planted @ 1 tree per 80 Sqm. of Plot Area	124.48 Say 125 Nos.

A

130

Details of Water Requirement

S. No.	Description	No. of units / Area in Sqm	Unit Population	Population	Unit water consumption (lpcd)	Total water required (kl)	Fresh water required (kl)	Flushing (kl)	Total Waste water (kl) (80% of domestic +100% Total flushing)
1	Main Dwelling Units (Residential) 3 BHK & 4 BHK	196	7 or 6	1204	100 (70+30)	120.4	84.28	36.12	103.544
2	Visitors (20% of the residential population)	...	...	241	15 (5+10)	3.615	1.21	2.41	3.3780
3	Main Swimming Pool + Kids Pool	12*6*1.5 & 4*4*0.5	...		...	17.000	17.000	...	15.30
Subtotal -I						141.02	102.49	38.53	122.22
Reuse of treated water									
1	Horticulture	2262.37 Sqm.	...	...	3 liter/sqm of Landscape area	6.78			
Subtotal II						6.78			
Grand Total I+II						148			

S. No.	Net Energy saved	
1.	Solar Based lighting will be done in the common areas, Signages, entry gates and boundary walls etc. @ 5% of the total Power requirement	60 KVA
2.	LED Based lighting will be done in the dwelling units	18.36 KVA
3.	Usage of energy efficient Lift (VVVF non gear lifts)	33 KVA
	Total Energy saved	111.36 KVA
	Total Energy consumption	1171 KVA
	Total Energy saving	9.5 %



STATUTORY CLEARANCES:

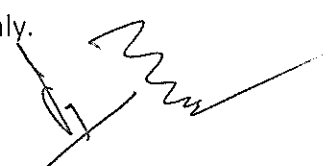
1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 1446, dated 07.06.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 139, dated 23.02.2023 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
3	CO certificate	:	The CO, Baragai, Ranchi vide letter no. 742 (ii), dated 02.09.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
4	AAI NOC	:	AAI NOC from AAI Department is not applicable to Proposed Residential project, as the latitude and longitude of the project site falls at the site elevation of the plot i.e. 629 m. As per the Colour coded Zoning map, it does not fall in red zone where NOC is required to be obtained from AAI.
5	Fire Department	:	Provisional NOC from Fire department will be obtained before the start of Construction activity at project site and same will be submitted to SEIAA.
6	Building Plan	:	Conceptual Plan submitted.

Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Residential Building "Privilege Home-Phase II" of M/s Privilege CCL Employees Grih Nirman Swawlambi Sahkari Samiti Ltd., Village : Bariyatu, Tehsil : Baragain, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure -III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.



132



- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- XI. Sufficient number of EV fast charging points to be installed.
- XII. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.
- XIII. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management.
- XIV. A cycling tract to be provided in residential complex so as to save on fuel and make in campus movement environment friendly.

5. Proposed production capacity 2,64,000 TPA of MS Billets unit by addition of 4x20 T Induction Furnace with CCM (2x2 strand) alongwith existing production capacity of 9000 TPA (MS Wire Chain, Link Galva Barbed Wire, Nail, Welded Mess), 3000 TPA (Karibar & Karibar Ring) and Slag crusher 60,500 TPA of M/s Anjanisuta Steels Pvt. Ltd., Village : Doiadih, Tehsil : Koderma, Distt. : Koderma, Jharkhand.

(Proposal No. : SIA/JH/IND1 /433038/2023)

Name of the consultant: Rian Enviro Pvt. Ltd., Patna, Bihar.

This is a existing project which has been taken for appraisal on 18.06.2023.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 100th meeting held on 09-14.01.2023 and SEIAA, Jharkhand has approved the violation ToRs in 101st meeting held on 23rd & 24th January, 2023. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2022-23/2706/2023/371, date 30.01.2023. The final EIA / EMP submitted by PP to SEIAA on 14.06.2023 and which was forwarded to SEAC on 14.06.2023.

S. No	Parameters	Description
1	Identification of project	Project falls under Metallurgical Industries (secondary metallurgical processing) Item 3(a) of the schedule of EIA



S. No	Parameters	Description
		notification of Sept 14, 2006 issued by MOEF & CC.
2	Project Proponent	M/S Anjanisuta Steels Pvt. Ltd.
3	Brief description of nature of the project	The existing industrial unit is producing MS Wire Chain, Link Galva Barbed Wire, Nail, Welded Mess 9000 TPA & Karibar & Karibar Ring 3,000 TPA. While the proposed expansion will add 4 no of induction furnace having capacity of 20 MT each for producing ~2,64,000 TPA of MS Ingot/ billets.
4	Salient Features of the Project	
4.1	Proposed production capacity	The production capacity of final/end product will be ~2,64,000 TPA of MS Ingot/ billets.
4.2	Total Plot Area	Total Plot Area –3.74 Acre
4.3	Location	Doiadih, Mahto Araa, Jhumri Telaiya, Koderma Jharkhand.
4.4	Water requirement	Water requirement is fulfilled through bore well made at the plant area and from the rain water harvesting pond. Overall water requirement for the proposed expansion project will be approx 125 KLD out of which 80 KLD will be recirculated in the process and 45 KLD will be makeup water. The plant have already taken ground water NOC vide application no. CGWA NOC no- CGWA/NOC/IND/ORIG/2022/16847 dated 26/10/2022. Permission is valid upto 25/10/2025
4.5	Source of water	Borewell
4.6	Wastewater	The domestic water consumption will result in generation of ~2.5 m3/day of domestic wastewater.
4.7	Man Power	Around 300 persons (direct & indirect)
4.8	Electricity/Power requirement	The electrical power requirement will increase to ~24000 kVA. One DG set of 500 kVA already installed (as power back-up).
4.9	Alternative site	The proposed addition will be established in the existing plant premises only.
4.10	Land form, Land use	Private land, owned by M/S Anjanisuta Steels Pvt. Ltd

A

134

S. No	Parameters	Description
	and land ownership	
4.11	Project cost	Total estimated project cost is approx.. Rs. 95 Crore.

LAND DETAILS :

Khata No.	Plot No.
21	137, 146 & 149
15	145
05	136 (P) & 143

Plant obtained CTE from Jharkhand State Pollution Control Board (JSPCB) vide letter no JSPCB/HO/RNC/CTE- 13323378/2022/361 dated 02.09.2022.

Consent to operate (CTO) vide Ref No. JSPCB/HO/RNC/CTO-12786673/2022/578, dated 12.05.2022 with validity upto 31-12-2023 for the establishment of production of billets of capacity MS Wire Chain link Galva Barbed Wire, Nail, Welded Mess-9000 TPA; Karibar & Karibar Ring-3000 TPA.

Configuration and Production Capacities of the existing & Proposed Units

Sl. No	Plant Facilities	Existing Installed Units and Capacity		Proposed Units and Capacity		Total after Expansion	
		Unit	Capacity	Unit	Capacity	Unit	Capacity
1.	Wires manufacturing	MS Wire Chain, Link Galva Barbed Wire, Nail, Welded Mess	~ 9,000 TPA	MS Wire Chain, Link Galva Barbed Wire, Nail, Welded Mess	~ 9,000 TPA	MS Wire Chain, Link Galva Barbed Wire, Nail, Welded Mess	~ 9,000 TPA
2.		Karibar & Karibar Ring	~ 3,000 TPA	Karibar & Karibar Ring	~ 3,000 TPA	Karibar & Karibar Ring	~ 3,000 TPA
3.	Induction Furnace	1x10T	16,200 TPA MS Billets	Replacement of existing 1x10T by 1x20 T and additional 4x20 T	~2,64,000 TPA MS Billets	4x20T	MS Billets 2,64,000 TPA
4.	Slag Crusher	--	3,800 TPA	Replacement of existing facility by 1 x,10 TPH	60,500 TPA	--	33,000 TPA

Industrial Solid waste and Hazardous waste

Units	Solid Wastes	Qty In TPD	Disposal practice
Induction Furnace	Slag	179	In-house metal recovery in slag crusher and supplied outside for further reuse in construction work.
Bag Filter Dust from process	Dust from process	~15kg/day	Partly recycled (metal content). Rest supplied outside for further reuse in construction work and Low land filling

There is no hazardous waste from the plant except for used oil (approx. 500kg/year) from equipment, which will be stored properly as per norms and is saleable to the registered recyclers in the market.

EMP budget

S.No	Title	Capital Cost Rs. Lacs	Recurring Cost Rs. Lacs (Annum)
1	Air Pollution Control	100.00	25.00
2.	Water Pollution Control	20.00	2.0
3.	Noise Pollution Control (Including cost of Landscaping, Green Belt)	35.00	12.00
4.	Solid Waste Management (Slag crushing unit)	125.00	12.00
5.	Environment Monitoring and Management (Including Establishment of Laboratory)	15.00	1.0
6.	RWH Pits and Storage area	15.00	5.00
7.	Miscellaneous (Appointment of Consultants, occupational health & safety measure and Hazard measures)	25.00	5.0
	Total	335	58
	Fund allocated for the commitment made during public hearing	53	Implementation as per the plan
	Grand Total	388	

A

136

136

B

136

STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Koderma Forest division vide letter no. 1736, dated 04.08.2020 certified that the distance of reserved / protected forest is 300 m from proposed project site.
2	DFO wildlife	:	DFO, Wildlife Hazaribag vide letter no. 1147, dated 29.06.2020 certified that the proposed project site is outside of Eco Sensitive Zone of Koderma Wildlife Sanctuary.
3	CO certificate	:	The CO, Koderma vide memo no. 116, dated 02.12.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
4	Consent to Establish (CTE) & Consnet ot Operate (CTO)	:	i. CTE issued by JSPCB vide Ref. no. JSPCB /HO/RNC/CTE-13323378/2022/361, dated 02.09.2022. ii. CTO issued by JSPCB vide Ref. no. JSPCB /HO/RNC/CTO-12786673/2022/578, dated 12.05.2022.
5	Public Hearing	:	Public Hearing conducted on 19.05.2023.

Based on the presentation made and information provided, the Committee decided that the proposal for Proposed production capacity 2,64,000 TPA of MS Billets unit by addition of 4x20 T Induction Furnace with CCM (2x2 strand) alongwith existing production capacity of 9000 TPA (MS Wire Chain, Link Galva Barbed Wire, Nail, Welded Mess), 3000 TPA (Karibar & Karibar Ring) and Slag crusher 60,500 TPA of M/s Anjanisuta Steels Pvt. Ltd., Village : Doiadih, Tehsil : Koderma, Distt. : Koderma, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – IV.

6. Koriadih & Paharpur Stone Deposit of Shri Sujit Kumar Seth, Village : Koriadih & Paharpur, Thana : Dumri, Distt. : Giridih, Jharkhand (1.760 Ha).

(Proposal No. : SIA/JH/MIN/ 429490 /2023)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 26780.00 cu.m/annum or 72306.00 TPA

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

This is a new project which has been taken for appraisal on 18.06.2023.




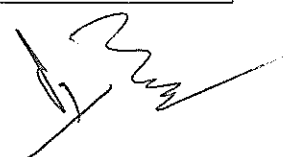
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Project and Location Details:

Sl	Parameter	Details	
1	Project Name	: Koriadih & Paharpur Stone Deposit	
2	Lessee:	: Sri Sujit Kumar Seth G.T Road, Isri Bazar, Thana- Nimiaghat, Giridih, Jharkhand.	
3	Lease Address	: Village –Koriadih & Paharpur, Thana- Dumri, District – Giridih, Jharkhand	
4	Lease Area	: 1.760 ha	Acres- 4.3483 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 20 Lakhs	
7	EMP Budget	: Capital: 4.221 Lakhs	Recurring: 4.27 Lakh / year
8	New or Expansion	: New	
9	Mineable Reserves	: cum.: 267010.00 cum	Tonnes: 720927.00 tons
10	Mine Life	: 9.97 ~ 10 years	
11	Man power	: 30	
12	Water Requirement	: 8.291 ~ 8.30 KLD(Drinking: 0.30 KLD, Dust Suppression: 4.395 KLD, Plantation: 3.596 KLD)	
13	Water Source	: From Nearby villages by tankers	
14	DG Set / power	: 200 KVA	
15	Crusher	: No crusher	
16	Nearest Water Body	: Jamuniya Nadi, approx. 3.66 km towards SW direction.	
17	Nearest Habitation	: Ratidih, approx 0.77 km towards WNW direction.	
18	Nearest Rail Station	: Nimighat Railway station, approx. 2.48 km towards NW direction.	
19	Nearest Air Port	: Birsa Munda International Airport, approx. 207.0 km towards SW direction.	
20	Nearest Forest	: Protected Forest near kalyanpur, approx. 4.90 Km towards SE direction. Protected Forest, approx. 4.50 km towards SW direction.	
21	Road & Highways	: NH- 19, Approx. 1.79 km. towards NE direction.	

CO-ORDINATES

1	Latitude	From 23°55'10.97" N	To 23°55'14.72" N
2	Longitude	From 86°05'52.51" E	To 86°06'03.01" E

A  138   

LAND DETAILS :

Khata No.	Plot No.
6	345 & 350
9	156 & 159
10	348 (P)
11	157 & 339 (P)
15	155, 158 & 161
17	344
18	160
20	162 (P)
29	346 & 347
38	343
42	349
43	340
44	341

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Giridih vide letter no. 419/M, dated 20.04.2023.
2	CO	:	The CO, Dumri (Giridih) vide letter no. 162, dated 03.03.2023 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in Khatiyon.
3	DMO	:	DMO, Giridih vide memo no. 493/M, dated 29.04.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 441, dated 28.02.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Giridih East Division vide letter no. 737, dated 23.02.2023 certified that the distance of reserved / protected forest is more than 500 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Giridih vide letter no. 582 / M, dated 22.05.2023 has informed that this project is part of District Survey

		Report (DSR) of Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Mukhiya, Balthariya vide letter no. 37/2023, dated 11.02.2023 & Mukhiya, Poraiya vide letter no. 10/2023, dated 15.02.2023 informed that Gram Sabha conducted on dated 11.02.2023.
8	Mine Plan Approval	: District Mining Officer, Koderma vide Letter No. 881, dated 04.05.2023.

Working Details

1	Mining Method	: Opencast semi mechanized method	
2	Quarry Area	: 1.81 ha. Or 4.47 Acres	Life of Mine – 9.97 ~ 10 Years
3	Waste Generation	: 3182.0 cum or 8591.4 tons	
4	Stripping Ratio	: 1: 0.00	
5	Working Days	: 300	
6	Benches: size & No	: 6m to 6m	
7	Elevation of Mine	: 279 AMSL to 281 AMSL	
8	Ground Level Elevation	: 279 AMSL	
9	Ultimate Working Depth	: 256 AMSL	
10	Water Table	: 245 AMSL (15 mbgl)	
11	Topography of Mine	: Area represents undulating small hillocks topography	
12	Explosive Requirement	: 90 kg/day	
13	Diesel/Fuel requirement	: 90 litre/day	

Production Details

Year	Production of stone (Cum)	Production of stone (Tonnes)	Total Waste in (cum)	Bench RL in Meters
1 st	23400.00	63180.00	1637.00	280 mRL – 274 mRL
2 nd	24700.00	66690.00	1545.00	280 mRL – 274 mRL
3 rd	26650.00	71955.00	-	274 mRL – 268 mRL
4 th	26780.00	72306.00	-	274 mRL – 268 mRL
5 th	26780.00	72306.00	-	268 mRL – 262 mRL
Total	128310.00	346437.00	3182.00	

A



140





Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	-	0.707	1.181 (Entire area converted into water reservoir)
Road	0.008	(comes under quarry)	-
Safety Zone	-	0.579 (Plantation)	0.579 (Plantation)
Total	0.008	1.286	1.760
Unused Area	1.752	0.474	-
Lease Hold Area	1.760	1.760	1.760

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.579 ha	1448
2	Along Approach Road	0.25 km	250
3	In consulting local authorities	-	100

- 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.

Solid Waste Management

Total 3182.00 cum or 8591.4 tons waste during the plan period will be generated which shall be used in making and maintenance of haul road and approach road, so there is no requirement of waste dumping Plan for this mining plan period.



Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.

A

142







- 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.

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 Koriadih & Paharpur Stone Deposit of Shri Sujit Kumar Seth, Village : Koriadih & Paharpur, Thana : Dumri, Distt. : Giridih, Jharkhand (1.760 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Bhoradabar Stone Deposit of M/s Maa Ambey Stone, Village : Bhoradabar, P.O. : Karanjo, P.S. : Margomunda, Distt. : Deoghar, Jharkhand (1.04 Ha).

(Proposal No. : SIA/JH/MIN/ 429957 /2023)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 55620.00 cu.m/annum or 150174.00 TPA

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

This is a new project which has been taken for appraisal on 18.06.2023.

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Bhoradabar Stone Deposit
2	Lessee:	: Maa Ambey Stone Partners Sri Mahendra Mandal, S/o- Late Jageshwar Sri Nunulal Tudu, S/o- Late Jitan Tudu Sri Aftab Alam, S/o- Mukhtar Alam Sri Darshan Soren, S/o- Late Madan Soren
3	Lease Address	: Village – Bhoradabar, P.O. - Karanjo, P.S.-Margomunda,

		District – Deoghar, Jharkhand.	
4	Lease Area	: 1.04 ha	Acres- 2.58 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 25 Lakhs	
7	EMP Budget	: Capital: 3.42 Lakhs	Recurring: 4.27 Lakh / year
8	New or Expansion	: New	
9	Mineable Reserves	: cum.: 278100.00 cum	Tonnes: 750870.00 tons
10	Mine Life	: 5 years	
11	Man power	: 23	
12	Water Requirement	: 6.674~ 6.70 KLD(Drinking: 0.23 KLD, Dust Suppression: 3.52 KLD, Plantation: 2.924 KLD)	
13	Water Source	: From Nearby villages by tankers	
14	DG Set / power	: 200 KVA	
15	Crusher	: No crusher	
16	Nearest Water Body	: Baghdaru Nadi, approx. 0.20 km towards E direction of mine site.	
17	Nearest Habitation	: Woldaha, at approx 0.95 km towards east direction.	
18	Nearest Rail Station	: Madankatta Railway Station, approx. 9.8 km towards ENE direction.	
19	Nearest Air Port	: Deoghar Airport, approx. 36.0 km towards North direction.	
20	Nearest Forest	: Protected Forest- Approx. 4.0 km towards NNW direction of mine site. Protected Forest - Approx. 4.0 km towards NW direction of mine site.	
21	Road & Highways	: Deoghar- Sawan Road, approx. 0.30 km in North direction. NH-144A, approx. 12.0 km in NE direction.	

CO-ORDINATES

1	Latitude	From 24° 09' 28.52" N	To 24° 09' 33.58" N
2	Longitude	From 86° 36' 27.88" E	To 86° 36' 32.36" E

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LAND DETAILS :

Plot No.
320 (P), 321, 322, 323, 324, 325 (P), 326, 331, 344 (P) & 351 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Deoghar vide letter no. 458/M, dated 13.04.2023.
2	CO	:	The CO, Margomunda vide letter no. 82/Ra, dated 13.03.2023 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Deoghar vide memo no. 801/M, dated 08.06.2023 certified that 01 other mining lease area (4.19 Acre) exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 176, dated 24.01.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Deoghar Forest Division vide letter no. 220, dated 01.02.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Deoghar vide letter no. 798 / M, dated 06.06.2023 has informed that this project is part of District Survey Report (DSR) of Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Margomunda vide letter no. 208/Vi, dated 13.03.2023 informed that Gram Sabha conducted on dated 03.01.2023.
8	Mine Plan Approval	:	Deputy Director of Mines, Santhal Pargana Circle, Dumka vide Letter No. 268/DDM, dated 19.05.2023.

Working Details

1	Mining Method	:	Opencast semi -mechanized method	
2	Quarry Area	:	1.04 ha. Or 2.58 Acres	Life of Mine – 5 Years
3	Waste Generation	:	3195.00 cum or 8626.5 tons	
4	Stripping Ratio	:	1:0.010	



5	Working Days	:	300
6	Bench: size & No	:	6m to 6m
7	Elevation of Mine	:	255 AMSL to 257 AMSL
8	Ground Level Elevation	:	255 AMSL
9	Ultimate Working Depth	:	238 AMSL
10	Water Table	:	225 AMSL (15 mbgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	90 kg/day
13	Diesel/Fuel requirement	:	90 litre/day

Production Details

Year	Production of stone (cum)	Production of stone (tons)	Total Waste in (cum)	Bench RL in Meters
1 st	50850.00	137295.00	1597.00	256 mRL – 250 mRL
2 nd	52650.00	142155.00	1598.00	256 mRL – 250 mRL
3 rd	54180.00	146286.00	-	250 mRL – 244 mRL
4 th	55620.00	150174.00	-	250 mRL – 244 mRL
5 th	55620.00	150174.00	-	244 mRL – 238 mRL
Total	268920.00	726084.00	3195.00	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	--	0.575	0.575 (Entire area will be converted into water reservoir)
Road	0.008	Comes under qry	Comes under qry
Safety Zone	--	0.465 (Plantation)	0.465 (Plantation)
Total	0.008	1.040	1.040

Balance	1.032	--	--
Lease Hold Area	1.040	1.040	1.040

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.465 ha	1162
2	Along Approach Road	0.20 km	200
3	In consulting local authorities	-	100

- 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.

Solid Waste Management

There is generation of 3195.00 cum or 8626.5 tones waste 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.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

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147







Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.

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- 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.

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 Bhoradabar Stone Deposit of M/s Maa Ambey Stone, Village : Bhoradabar, P.O. : Karanjo, P.S. : Margomunda, Distt. : Deoghar, Jharkhand (1.04 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

8. Bhalua Stone Deposit of Partners : (i) Shri Raman Kumar Singh (ii) Shri Deepak Kumar Gupta (iii) Shri Lakhan Marandi (iv) Smt. Khusboo Praveen , Village : Bhalua, P.S. : Budhai, Distt. : Deoghar, Jharkhand (0.663 Ha).

(Proposal No. : SIA/JH/MIN/ 432815/2023)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 12240.00 cum/annum or 33048.00 TPA Stone,

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

This is a new project which has been taken for appraisal on 18.06.2023.

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Bhalua Stone Deposit
2	Lessee:	: Partner 1. Sri Raman Kumar Singh, S/o- Sri Heera Prasad Singh 2. Sri Deepak Kumar Gupta, S/o- Sri Rajendra Prasad Gupta 3. Sri Lakhan Marandi, S/o- Sri Shukar Marandi 4. Smt. Khushboo Praveen, W/o-Late Nawaz Khan
3	Lease Address	: Village – Bhalua, P.S.- Budhai, District – Deoghar , Jharkhand
4	Lease Area	: 0.663 ha Acres- 1.64 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 25 Lakhs
7	EMP Budget	: Capital: 4.9875 Lakhs Recurring: 4.27 Lakh / year
8	New or Expansion	: New
9	Mineable Reserves	: cum.: 61220 cum Tonnes: 165294.00 tons
10	Mine Life	: 5 years

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11	Man power	:	23
12	Water Requirement	:	9.27 ~ 9.50 KLD (Drinking: 0.23 KLD, Dust Suppression: 5.89 KLD, Plantation: 3.15 KLD)
13	Water Source	:	From Nearby villages by tankers
14	DG Set / power	:	200 KVA
15	Crusher	:	No Crusher
16	Nearest Water Body	:	Pathro river, approx. 6.32 km towards NE direction.
17	Nearest Habitation	:	Bhalua, at approx 0.51 km towards SSW direction.
18	Nearest Rail Station	:	Jagdishpur Railway Station, approx. 3.50 km towards SSW direction.
19	Nearest Air Port	:	Deoghar Airport, approx. 23.20 km towards NE direction.
20	Nearest Forest	:	Protected Forest, approx 1.0 Km in East direction. Protected Forest (Open Sal), approx 1.5 Km in South direction. Protected Forest (Paharjori), approx 3.5 Km in West direction Protected Forest, approx 2.0 Km in North direction.
21	Road & Highways	:	NH-114 A, approx. 2.51 km. in SE direction.

CO-ORDINATES

1	Latitude	From 24°18'08.33" N	To 24°18'11.92" N
2	Longitude	From 86°32'10.42" E	To 86°32'15.32" E

LAND DETAILS :

Plot No.
286, 287, 296 & 297 (P)

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Deoghar vide letter no. 747/M, dated 30.05.2023.
2	CO	:	The CO, Madhupur vide letter no. 301/Ra, dated 08.04.2023 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Deoghar vide memo no. 796/M, dated 06.06.2023 certified that no other mining lease area exists within 500 m radius from proposed

			project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 700, dated 05.04.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Deoghar Forest Division vide letter no. 539, dated 27.03.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Deoghar vide letter no. 798 / M, dated 06.06.2023 has informed that this project is part of District Survey Report (DSR) of Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Madhupur vide letter no. 833/Vi, dated 27.03.2023 informed that Gram Sabha conducted on dated 23.03.2023.
8	Mine Plan Approval	:	Deputy Director of Mines, Santhal Pargana Circle, Dumka vide Memo No. 281/DDM, dated 06.06.2023.

Working Details

1	Mining Method	:	Opencast Semi-Mechanised method.
2	Quarry Area	:	0.663 ha. Or 1.64 Acres
			Life of Mine – 5 Years
3	Waste Generation	:	2711.00 cum or 7319.7 tons
4	Stripping Ratio	:	1: 0.010
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	279 AMSL to 280 AMSL
8	Ground Level Elevation	:	279 AMSL
9	Ultimate Working Depth	:	272 AMSL
10	Water Table	:	260 AMSL (15mbgl)
11	Topography of Mine	:	Area represents a flat topography
12	Explosive Requirement	:	70 kg/day
13	Diesel/Fuel requirement	:	70 litre/day

Production Details

Year	Production of stone (Tonnes)	Total Waste in (cum)	Bench RL in Meters
1 st	31320.00	1326.00	290 mRL – 284 mRL
2 nd	33048.00	-	284 mRL – 278 mRL
3 rd	31752.00	1385.00	290 mRL – 284 mRL
4 th	30294.00	-	284 mRL – 278 mRL
5 th	25002.00	-	278 mRL – 272 mRL
Total	151416.00	2711.00	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	--	0.367	0.367 (Entire area will be converted into water reservoir)
Road	0.008	Comes unde qry	Comes unde qry
Safety Zone	--	0.296 (Plantation)	0.296 (Plantation)
Total	0.008	0.663	0.663
Balance	0.655	--	-
Lease Hold Area	0.663	0.663	0.663

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.296 ha	740
2	Along Approach Road	0.735 km	735
3	No. of plants in buffer zone consulting local authorities	--	100

- 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.

Solid Waste Management

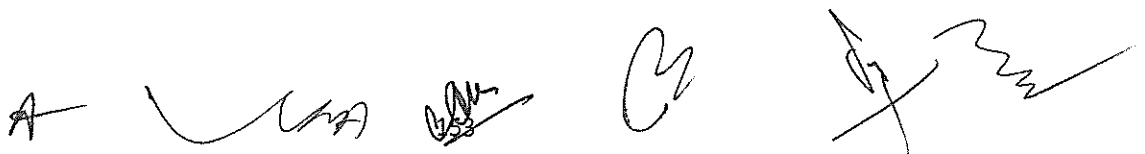
Total 2711.00 cum or 7319.7 tons waste during the plan period will be generated, which will be used in maintenance of mine road and village road, so there is no requirement of waste dumping Plan for this mining plan.

Water Quality Management

- Mining is planned to be above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any, shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in a garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside.
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any, shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission.
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road' shall be done.
- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask e.t.c shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

The bottom of the page features several handwritten signatures and initials in black ink. From left to right, there is a simple 'A', a cursive signature, a signature with 'BSS' written below it, a stylized 'C', and a large, bold signature with a long horizontal stroke extending to the right.

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.

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 Bhalua Stone Deposit of Partners : (i) Shri Raman Kumar Singh (ii) Shri Deepak Kumar Gupta (iii) Shri Lakhan Marandi (iv) Smt. Khusboo Praveen , Village : Bhalua, P.S. : Budhai, Distt. : Deoghar, Jharkhand (0.663 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

9. Laharjori Stone Deposit of M/s P.K. Mining (Partners : Shri Purushottam Sharan Prashant & Shri Kali Rai) , Village : Laharjori, Distt. : Deoghar, Jharkhand (1.20 Ha).

(Proposal No. : SIA/JH/MIN/ 429994/2023)

Project Category: B2 – Application for Environment Clearance.

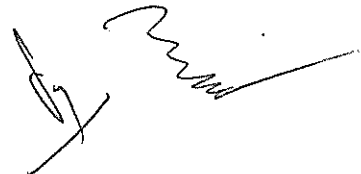
EC Application for: Proposed Capacity- 54018.00 cum/annum or 145848.60 TPA.

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

This is a new project which has been taken for appraisal on 18.06.2023.

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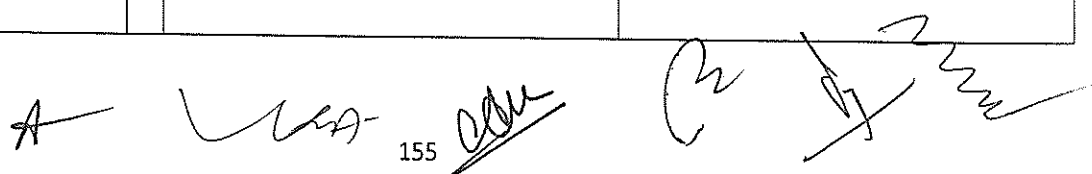


Project and Location Details :

S. No.	Parameter		Details
1	Project Name	:	Laharjori Stone Deposit
2	Lessee:	:	P.K. Mining (Partners - Sri Purushottam Sharan Prashant & Sri Kali Rai)
3	Lease Address	:	Village : Laharjori, P.O- Karanjo, P.S- Margomunda, District – Deoghar, State- Jharkhand
4	Lease Area	:	1.20 ha Acres- 2.98 Acres
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 25 Lakhs
7	EMP Budget	:	Capital: 5.395 Lakhs Recurring: 4.27 Lakhs / year
8	New or Expansion	:	New
9	Mineable Reserves	:	cum.: 268740.0 cum Tonnes: 725598.00 tons
10	Mine Life	:	5 years
11	Man power	:	23
12	Water Requirement	:	10.07 ~ 11.0 KLD (Drinking: 0.23 KLD, Dust Suppression: 6.32 KLD, Plantation: 3.52 KLD)
13	Water Source	:	From Nearby villages by tankers
14	DG Set / power	:	200 KVA
15	Crusher	:	No crusher
16	Nearest Water Body	:	Baghdaru Nadi, Approx. 0.20 km towards E direction of mine site
17	Nearest Habitation	:	Bhoradabar, at approx 0.400 km towards North direction.
18	Nearest Rail Station	:	Madankatta Railway Station, approx. 9.8 km towards ENE direction.
19	Nearest Air Port	:	Deoghar Airport, approx. 36.0 km towards North direction.
20	Nearest Forest	:	Protected Forest – Approx. 4.0 km towards NNW direction of mine site. Protected Forest- Approx. 4.0 km towards NW direction of mine site.
21	Road & Highways	:	Deoghar- Sawan Road, Approx. 0.3 km in North direction. NH-144A, Approx. 12.0 km in NE direction

CO-ORDINATES

1	Latitude	From 24°09'12.18"	To 24°09'17.20" N
2	Longitude	From 86°36'20.18"	To 86°36'11.92" E



LAND DETAILS :

Khata no.	Plot No.
08	1419

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Officer, Deoghar vide letter no. 460/M, dated 13.04.2023.
2	CO	:	The CO, Margomunda vide letter no. 81/Ra, dated 13.03.2023 has mentioned the plot no. of the project is not recorded as "Jungle- Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Deoghar vide memo no. 613/M, dated 19.05.2023 certified that 01 other mining lease area (4.19 Acre) exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 403, dated 27.02.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	Division Forest Officer, Deoghar Forest Division vide letter no. 464, dated 14.03.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Deoghar vide letter no. 798 / M, dated 06.06.2023 has informed that this project is part of District Survey Report (DSR) of Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Margomunda vide letter no. 219/Vi, dated 16.03.2023 informed that Gram Sabha conducted on dated 13.03.2023.
8	Mine Plan Approval	:	Deputy Director of Mines, Santhal Pargana Circle, Dumka vide Letter No. 269/DDM, dated 19.05.2023.

Working Details

1	Mining Method	:	Opencast semi mechanized Method
2	Quarry Area	:	0.836 ha. Life of Mine – 5 Years
3	Waste Generation	:	3290.00 cum or 8883.0 tons
4	Stripping Ratio	:	1: 0.06

A  156   

5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	257 AMSL to 258 AMSL
8	Ground Level Elevation	:	257 AMSL
9	Ultimate Working Depth	:	227 AMSL
10	Water Table	:	210 AMSL (15 mbgl)
11	Topography of Mine	:	Area represents small hillock topography
12	Explosive Requirement	:	90 kg/day
13	Diesel/Fuel requirement	:	90 litre/day

Production Details

Year	Production of stone (cum)	Production of stone (tons)	Total Waste in (cum)	Bench RL in Meters
1 st	51300.00	138510.00	1987.00	258 mRL – 251 mRL
2 nd	52380.00	141426.00	1303.00	251 mRL – 248 mRL
3 rd	53910.00	145557.00	-	245 mRL – 239 mRL
4 th	53958.00	145686.60	-	239 mRL – 233 mRL
5 th	54018.00	145848.60	-	233 mRL – 227 mRL
Total	265566.00	717028.20	3290.00	

Land Use

Pattern of Utilization	Existing (Ha)	During Plan Period (ha)	After Life of Mine (ha)
Quarry	--	0.836	0.836
Road	0.008	(comes under quarry)	(comes under quarry)
Safety Zone Plantation	--	0.364	0.364
Total area in use	0.008	1.20	1.20
Unused Area	1.192	--	--
Lease hold area	1.20	1.20	1.20

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157



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ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.364 ha	910
2	Along Approach Road	0.750 km	750
3.	In consulting Authorities	-	100

- 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.

Solid Waste Management

Total 3290.00 cum or 8883.0 tons waste during the plan period will be generated 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.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.

- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.

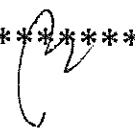
Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Laharjori Stone Deposit of M/s P.K. Mining (Partners : Shri Purushottam Sharan Prashant & Shri Kali Rai) , Village : Laharjori, Distt. : Deoghar, Jharkhand (1.20 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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159







10. Bichgarha Stone Deposit of Shri Binod Kumar Singh & Shri Budhan Yadav, Village : Bichgarha, Thana : Mohanpur, Anchal : Mohanpur, Distt. : Deoghar, Jharkhand (2.489 Ha).

(Proposal No. : SIA/JH/MIN/ 432944/2023)

During consideration of the project it was found that there were major discrepancies between land use data, development plan and conceptual plan. Hence, the Project Authorities have been asked to prepare a revised mine plan and duly approved as per directive of Deptt. of Mines & Geology, Govt. of Jharkhand issued vide letter no. 2078A, dated 27.09.2014.

The project authorities shall resubmit the proposal for consideration of Environmental Clearance as per details given in the approved revised mine plan.

11. Dhubadih Stone Deposit of M/s Shiv Parvati Stone Quarry, Village : Dhubadih, Thana : Markacho, Distt. : Koderma, Jharkhand (1.18 Ha).

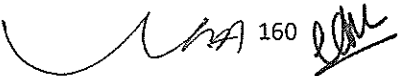


(Proposal No. : SIA/JH/MIN/ 433131 /2023)

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

This is a new project which has been taken for appraisal on 18.06.2023.

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Dhubadih Stone Deposit (Area –1.18 Ha or 2.92 Acre)
2	Lessee:	: M/s Shiv Parvati Stone Quarry Partners- 1. Sri Nakul Mandal 2. Sri Suraj Kumar 3. Sri Rajniti Singh 4. Sri Akhilesh Mandal
3	Lease Address	: Village - Dhubadih, P.S. – Markacho, District – Koderma, State - Jharkhand
4	Lease Area	: 1.18 ha Acres- 2.92 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 25 Lakhs
7	EMP Budget	: Capital: 5.70 Lakhs Recurring: 4.27 Lakh / year
8	New or Expansion	: New
9	Mineable Reserves	: cum.: 196000.0 cum Tonnes: 529200.00 tons
10	Mine Life	: 10 years

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11	Man power	:	20
12	Water Requirement	:	10.62 ~ 10.70 (Drinking: 0.20 KLD, Dust Suppression: 6.67 KLD, Plantation: 3.75 KLD)
13	Water Source	:	From Nearby villages by tankers
14	DG Set / power	:	200 KVA
15	Crusher	:	No crusher
16	Nearest Water Body	:	Pachkhara Nadi, Approx. 4.90 km towards SE direction.
17	Nearest Habitation	:	Baradih, approx 0.55 km towards SSW direction.
18	Nearest Rail Station	:	Nawadih Railway station, approx. 7.20 km towards North direction.
19	Nearest Air Port	:	Deoghar Airport, approx. 91.50 km towards East direction.
20	Nearest Forest	:	Panduwai PF, approx. 1.20 Km in North direction. Hariladih PF, approx. 4.80 Km in NW direction. Medwa PF, approx. 4.20 Km in North direction.
21	Road & Highways	:	Markacho-Baryardih Road , approx. 2.10 km. in east direction. SH-13, approx. 10.30 km in NNW direction.

CO-ORDINATES

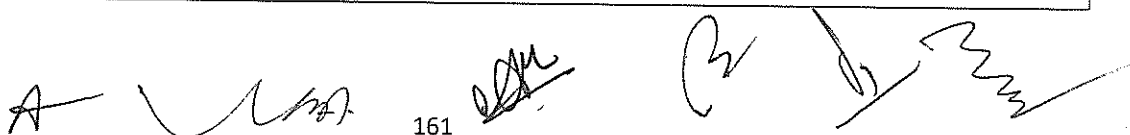
1	Latitude	From 24°20'34.40" N	To 24°20'41.34" N
2	Longitude	From 85°48'24.29" E	To 85°48'28.92" E

LAND DETAILS :

Khata No.	Plot No.
40	161
52	162
83	160

STATUTORY CLEARANCES:

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Koderma vide memo no. 1061/M, dated 01.06.2023.
2	CO	:	The CO, Markacho (Koderma) vide letter no. 137, dated 16.03.2023 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Koderma vide memo no. 1129/M, dated 10.06.2023 certified that no other mining lease area exists within 500 m radius from



			proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. : 828 dated 26.04.2023 certified that the proposed project site is outside Eco Sensitive Zone of Koderma Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Koderma vide letter no. : 2086, dated 22.05.2023 certified that the distance of notified forest is 315 m from proposed project site.
6	DSR	:	The DC – cum – District Magistrate, Koderma vide letter no. 1143/M, dated 12.06.2023 has informed that this project is part of District Survey Report (DSR) of Koderma district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on dated 28.04.2023.
8	Mine Plan Approval	:	District Mining Officer, Koderma vide letter no. 1132, dated 12.06.2023.

Working Details

1	Mining Method	:	Opencast semi mechanised method
2	Quarry Area	:	1.18 Ha or 2.92 Acre
3	Waste Generation	:	3438.0 cum or 9282.6
4	Stripping Ratio	:	1: 0.002
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	339 AMSL to 340 AMSL
8	Ground Level Elevation	:	339 AMSL
9	Ultimate Working Depth	:	322 AMSL
10	Water Table	:	305 AMSL (15mbgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	90 kg/day
13	Diesel/Fuel requirement	:	90 litre/day

Production Details

Year	Production of stone (Cum)	Production of stone (Tonnes)	Total Waste in (cum)	Bench RL in Meters
1 st	18000.00	48600.00	1787.00	340mRL – 334 mRL
2 nd	18700.00	50490.00	1651.00	340 mRL – 334 mRL

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162

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3 rd	19600.00	52920.00	-	334 mRL – 328 mRL
4 th	19300.00	52110.00	-	334 mRL – 228 mRL
5 th	17202.00	46445.40	-	268 mRL – 262 mRL
Total	92802.00	250565.40	3438.00	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	--	0.398	0.782 (Entire area converted into Water reservoir)
Road	0.006	(Comes under quarry)	(Comes under quarry)
Safety Zone	-	0.398 (Plantation)	0.398 (Plantation)
Total	0.006	0.796	1.18
Balance	1.174	0.384	-
Lease Hold Area	1.18	1.18	1.18

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.398 ha	780
2	Along Approach Road	0.78 km	780
3	In consulting local authorities	-	100

- 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.

Solid Waste Management



There is 3438.0 cum or 9282.6 waste generated during this Mining Plan period, so there is no requirement of waste dumping Plan for this mining plan but it will be used for village road and approach road maintenance.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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.

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 Dhubadih Stone Deposit of M/s Shiv Parvati Stone Quarry, Village : Dhubadih, Thana : Markacho, Distt. : Koderma, Jharkhand (1.18 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

12. Dhubadih Stone Deposit of M/s Maa Tara Stone Works, Village : Dhubadih, Thana : Markacho, Distt. : Koderma, Jharkhand (2.02 Ha).

(Proposal No. : SIA/JH/MIN/ 433275 /2023)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 50160.0 cu.m/annum or 135432.00 TPA.

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

This is a new project which has been taken for appraisal on 18.06.2023.

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Dhubadih Stone Deposit (Area –2.02 Ha or 5.00 Acre)
2	Lessee:	: M/s Maa Tara Stone Works Partners- 1. Sri Nakul Mandal 2. Sri Suraj Kumar 3. Sri Rajniti Singh

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		4. Sri Akhilesh Mandal	
3	Lease Address	: Village - Dhubadih, P.S. – Markacho, District – Koderma, State - Jharkhand	
4	Lease Area	: 2.02 ha	Acres- 5.00 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 45 Lakhs	
7	EMP Budget	: Capital: 3.695 Lakhs	Recurring: 4.27 Lakh / year
8	New or Expansion	: New	
9	Mineable Reserves	: cum.: 501960.0 cum	Tonnes: 1355292.00 tons
10	Mine Life	: 10 years	
11	Man power	: 26	
12	Water Requirement	: 7.22 ~ 7.50 (Drinking: 0.26 KLD, Dust Suppression: 3.84 KLD, Plantation: 3.12 KLD)	
13	Water Source	: From Nearby villages by tankers	
14	DG Set / power	: 500 KVA	
15	Crusher	: No crusher	
16	Nearest Water Body	: Pachkhara Nadi, Approx. 4.90 km towards SE direction.	
17	Nearest Habitation	: Paphara, approx 0.54 km towards SE direction.	
18	Nearest Rail Station	: Nawadih Railway station, approx. 6.70 km towards North direction.	
19	Nearest Air Port	: Deoghar Airport, approx. 90.60 km towards East direction.	
20	Nearest Forest	: Dardahi PF, approx. 4.50 Km in North direction. Medwa PF, approx. 3.80 Km in North direction. Protected Forest, approx. 0.80 Km in North direction. Protected Forest, approx. 4.80 Km in SSE direction.	
21	Road & Highways	: Markacho-Baryardih Road , approx. 1.22 km. in east direction. SH-13, approx. 10.70 km in North direction.	

CO-ORDINATES

1	Latitude	From 24°20'50.18" N	To 24°20'55.08" N
2	Longitude	From 85°48'48.48" E	To 85°48'55.40" E

LAND DETAILS :

Khata No.	Plot No.
05	503 (P), 505 (P)
89	519

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56	520
92	521
53	522
26	523 (P)
65	524 (P)
51	525 (P)
69	526 (P)

STATUTORY CLEARANCES:

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by DMO, Koderma vide memo no. 1062/M, dated 01.06.2023.
2	CO	: The CO, Markacho (Koderma) vide letter no. 136, dated 16.03.2023 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	: DMO, Koderma vide memo no. 1128/M, dated 10.06.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. : 830 dated 26.04.2023 certified that the proposed project site is outside Eco Sensitive Zone of Koderma Wildlife Sanctuary.
5	DFO Forest Distance	: DFO, Koderma vide letter no. : 2083, dated 22.05.2023 certified that the distance of notified forest is 315 m from proposed project site.
6	DSR	: The DC – cum – District Magistrate, Koderma vide letter no. 1143/M, dated 12.06.2023 has informed that this project is part of District Survey Report (DSR) of Koderma district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Gram Sabha conducted on dated 28.04.2023.
8	Mine Plan Approval	: District Mining Officer, Koderma vide letter no. 1131, dated 12.06.2023.

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Working Details

1	Mining Method	:	Opencast semi mechanised method
2	Quarry Area	:	2.02 Ha or 5.00 Acre
3	Waste Generation	:	3163.0 cum or 8540.1
4	Stripping Ratio	:	1: 0.002
5	Working Days	:	300
6	Benches: size & No	:	6m to 6m
7	Elevation of Mine	:	340 AMSL to 342 AMSL
8	Ground Level Elevation	:	340 AMSL
9	Ultimate Working Depth	:	310 AMSL
10	Water Table	:	300 AMSL (15mbgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	110 kg/day
13	Diesel/Fuel requirement	:	110 litre/day

Production Details

Year	Production of stone (Cum)	Production of stone (Tonnes)	Total Waste in (cum)	Bench RL in Meters
1 st	46800.00	126360.00	3163.00	340mRL – 334 mRL
2 nd	48360.00	130572.00	-	334 mRL – 328 mRL
3 rd	50160.00	135432.00	-	328 mRL – 322 mRL
4 th	47082.00	127121.40	-	322 mRL – 316 mRL
5 th	43740.00	118098.00	-	316 mRL – 310 mRL
Total	236142.00	637583.40	3163.00	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha) (after life of mine)
Quarry	--	0.944	1.528 (entire area converted into water reservoir)
Road	0.006	(Comes under quarry)	(Comes under quarry)

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Safety Zone	-	0.492 (Plantation)	0.492 (Plantation)
Total	0.006	1.436	2.02
Balance	2.014	0.584	-
Lease Hold Area	2.02	2.02	2.02

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	Location	Area/Length	No of Trees
1	Safety Zone	0.492 ha	1230
2	Along Approach Road	0.23 km	230
3	In consulting local authorities	-	100

- 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.

Solid Waste Management

There is 3163.0 cum or 8540.1 waste generated during this Mining Plan period, so there is no requirement of waste dumping Plan for this mining plan but it will be used for village road and approach road maintenance.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to

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prevent water flowing into the lease area from outside or from inside the lease area to the outside

- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

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

170

- 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.

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 Dhubadih Stone Deposit of M/s Maa Tara Stone Works, Village : Dhubadih, Thana : Markacho, Distt. : Koderma, Jharkhand (2.02 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

13. Proposed Residential and Commercial Project "Sky Deck 72" of Pushpa Devi Drolia, Rajiv Drolia and Drolia Mineral Industries (P) Ltd., Village :Kathar Gonda, Opp. Krishi Bhawan, Kanke Road, Thana : Gonda, Distt.: Ranchi, Jharkhand.

(Proposal No. SIA/JH/INFRA2/ 432564/2023).

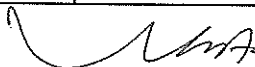
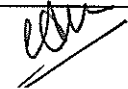

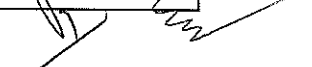
Project Category: 8(a) Category B2 – Application for Environment Clearance

EC Application for: Residential and Commercial Project: Total built-up area is 23290.22 Sq.m.

Name of the consultant: P & M SOLUTION, Noida

Project and Location Details :

Parameters	Description
Plot Area	4493 m ² (0.45 ha/1.11 acres)
Project Cost	INR 45 Crores
Built-up Area	23290.22 m ²
Green Area	1347.9 sq m. Out of which Green belt area is 673.95 sq.m i.e. 15 % of the plot area and 15% on terrace and compound area i.e. 673.95 sq.m.
Population	808
Water Requirement	63 KLD
Fresh Water Requirement	22 KLD
Wastewater Generation	50 KLD
STP Capacity	60 KLD (30 KLD+30 KLD).

A  171   

Total Municipal Waste	249 kg/day
Power Requirement	948 KW (Jharkhand State Electricity board)(430 KW – Residential and 518 KW- Commercial)
DG Sets	2 nos. of DG set of 275 KVA (1*125-Commercial +1*150- Residential)
RWH Pits/Tanks	02 no. of pits and 2 no. of tanks
Parking	346 ECU, 1847 sq.m
Connecting road	Project site is well connected with road adjacent.
National Highway	NH 20 (5.72 km, E)
Nearest Railway Station	Ranchi Junction Railway Station (5.52 km, SE)
Airport	Birsa Munda Airport (8.68 km, S)
Nearest Hospitals	Vivekanand Hospital (1.45 km, SW)
Nearest Water Bodies	<ul style="list-style-type: none"> •Dhurwa Dam (12.07 km, SW) •Ranchi Lake (2.77 km, S) •Kanke Dam (0.65 km, W) •Subernrekha River (7.53 km, SSE) •Jumar River (6.16 km, N)

Khata no. & Plot no. of the project :

Khata no.	Plot no.
121	759

CO-ORDINATES

Point as in Maps	Latitude	Longitude
1.	23°23'42.58"N	85°18'51.66"E
2.	23°23'43.91"N	85°18'51.83"E
3.	23°23'42.32"N	85°18'52.68"E
4.	23°23'42.88"N	85°18'54.81"E
5.	23°23'42.45"N	85°18'55.50"E

Area Summary :

S. No.	DESCRIPTION	AREA (SQ M)
A.	Total plot area	4493
B.	Proposed Ground Coverage (@ 32.78 % of plot area)	1473.22
C.	Proposed FAR (@ 3.21)	14422.53



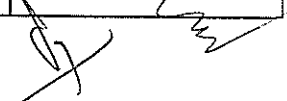
D.	Non FAR Area (Strain case, Lift, Balcony, Ramp, Accessory Use, Basement Parking)	8867.69
E.	Built-up Area (F+G)	23290.22
F.	Total Green Area	1347.9
G.	Green Belt (15% of plot area)	673.95
H.	Open Parking area (4.62 % of plot area)	207.90
I.	Road widening (6.62% of plot area)	297.74
J.	Service Area (DG, OWC, Transformer) (2.6 % of plot area)	117.11
K.	Ramp (3.56 % of plot area)	160.36
L.	Open Area/paved area (34.78 % of plot area)	1562.72
M.	Height (m)	89.90
N.	No of Dwelling Units	24

STATUTORY CLEARANCES :

1	DFO Forest Distance	DFO, Ranchi Forest division vide letter no. 340, dated 02.02.2023 certified that the distance of reserved/protected forest is more than 250 m from project site.
2	DFO wildlife	: DFO, Wildlife division vide letter no. 61, dated 20.01.2023 certified that proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
3	CO certificate	: The CO, Hehal, Ranchi vide letter no. 12, dated 06.03.2023 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
4	AAI NOC	: Airport authority of India issued NOC vide NOC ID RANC/EAST/B/100922/701937, dated 30.11.2022.
5	Fire Department	: A fire advisory has been issued by Fire Department, Jharkhad, Ranchi vide vide memo no. 3183/Tech./2023, dated 04.06.2023.
6	Building Plan	: Conceptual Plan submitted.

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement(KLD)
Domestic					
Residents	168	100	16.8	13.44	3.36

A  173  B 

Staff	9	45	0.41	0.23	0.18
Visitors	17	15	0.26	0.18	0.078
Commercial Area (Staff)	614	45	28	8	20
Total Domestic Water Demand			46	22	24
Landscape	1347.9 sqm	6 ltr/sqm	8	-	8
Fire Fighting			1	-	1
DG cooling	275 KVA(1*125+1*150)	0.9 l/kVA/hr	2	-	2
Total		-	57	22	25

Category	Total Quantity (KLD)
Domestic (fresh) water Req.	22
Flushing water Req.	25
Sewage generation (@90% of the Domestic + 100% flushing water requirement)	45
Capacity of STP (KLD)	60 (30 KLD+30 KLD)
Recovered water from STP (90% of Waste water)	41
1. Flushing	25
2. Landscaping	8
3. Fire Fighting	1
4. DG cooling	2
5. Sewer	5

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non-Recyclable (kg/day)
1.	Residents	168	0.5	84	67	17
2.	Staff	9	0.25	3	2.4	0.6

3.	Visitors	17	0.15	3	2.4	0.6
4	Commercial staff	614	0.25	154	123	31
4.	Landscape waste	0.19 acres	1 kg/acres	1	1	-
5.	STP sludge	60 KLD	--	4	4	-
Total Waste Generated				249	200	49

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
Total green area provided at the site is 1347.9 sq m. Out of which Green belt area 15 % of the plot area and 15% on terrace and compound area i.e. 673.95 sq.m. of the net plot area. which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

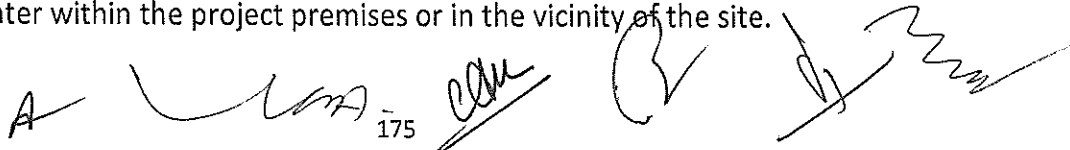
During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.



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- Mobile toilets to be provided for construction Laborers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 60 KLD (Two STP of 30 KLD each) is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, Filter backwash, flushing, fire fighting and in road washing/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 22 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.



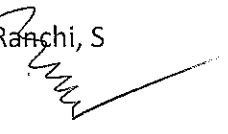
Energy conservation

- Solar Power generation and other energy conservation measures will save upto approx. 25 % of the total power requirement.

Undertaking

1. An affidavit stating that no construction work.
2. An undertaking that 45 m³/day recycles waste water generated at Proposed Residential and Commercial Project "Sky Deck 72" located at Khata no. 121, Plot no. 759, Village-Kathar Gonda Opp. Krishi Bhawan Kanke Road Ranchi -834008, Thana-Gonda, Tehsil-Hehal, District-Ranchi, State-Jharkhand of Pushpa Devi Drolia, Rajiv Drolia and Mineral Industries, (P) Ltd.
3. An undertaking that 948 KW Power requirement in Proposed Residential and Commercial Project "Sky Deck 72" over Plot No.759 and Khata No.121 at Village-Kathar Gonda Opp. Krishi Bhawan Kanke Road Ranchi -834008, Thana-Gonda, Tehsil - Hehal, District-Ranchi, S

A  176 

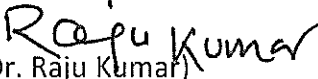
  

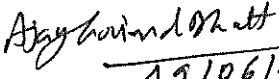
Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Residential and Commercial Project "Sky Deck 72" of Pushpa Devi Drolia, Rajiv Drolia and Drolia Mineral Industries (P) Ltd., Village :Kathar Gonda, Opp. Krishi Bhawan, Kanke Road, Thana : Gonda, Distt.: Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure –III alongwith the following specific conditions :


- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- XI. Sufficient number of EV fast charging points to be installed.
- XII. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.
- XIII. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management.
- XIV. A cycling tract to be provided in residential complex so as to save on fuel and make in campus movement environment friendly.

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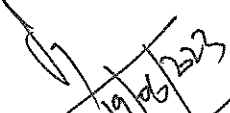
The meeting concluded with thanks to all present.



(Dr. Raju Kumar)
Member


19/06/2023
(Dr. Ajay Govind Bhatt)
Member


(Niranjan Lal Agarwalla) 19/06/2023
Member


19/6/23
(Dr. Kirti Avishek)
Member


(Srikant Verma) 19/06/2023
Secretary






(Ashok Kumar Singh) 19/06/2023
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 Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- 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

A  179   

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-IAJ (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.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.

A

180



- 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

A

182

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.

184

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. 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. And 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

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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.

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Annexure - II

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

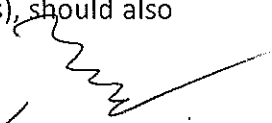
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be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

- 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.

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191

- 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

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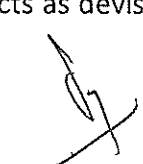

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periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

- 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.

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- 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.

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I. Statutory Compliance

- i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- v. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- vi. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vii. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- viii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- ix. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- x. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- xi. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.

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- xiii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.
- xiv. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- xv. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.
- xvi. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvii. Water during construction phase should be preferred from Municipal supply.
- xviii. Unskilled construction labourers shall be recruited from the local areas.
- xix. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- xx. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- xxi. Rest room facilities shall be provided for service population.
- xxii. Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- xxiii. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.

II. Air quality monitoring and preservation

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act,

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1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.

- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

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- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.



- xvi. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed based on the MBBR/MBR/SBR technology. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxi. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.






A   199  

V. Energy Conservation measures

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

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- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 20L.6., Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- ii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

VIII. Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.

- a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
 - iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human Health Issues

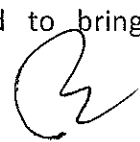
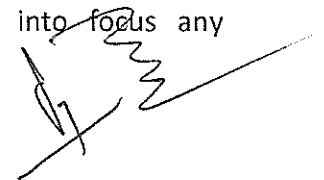
- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any

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202
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infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

XI. Miscellaneous

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

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- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.
- xvi. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF&CC, Govt. of India.

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204
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I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- iv. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vii. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

II. Air quality monitoring and preservation



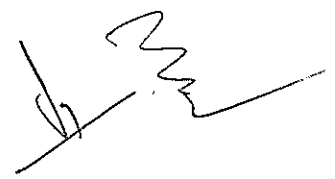
- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released

(e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)

- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after *briquetting* agglomeration.
- ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF / EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.

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- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Adhere to 'Zero Liquid Discharge'.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vi. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- vii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- viii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- ix. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB (A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- ii. Practice hot charging of slabs and billets/blooms as far as possible.
- iii. Ensure installation of regenerative type burners on all reheating furnaces.
- iv. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- v. Provide the project proponent for LED lights in their offices and residential areas.



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VI. Waste management

- i. Used refractories shall be recycled as far as possible.
- ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. The waste oil, grease and other hazardous waste shall be disposed of as per the
- v. Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- vi. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant)*

VII. Green Belt

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment, (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms.

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208
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conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

A  209   

- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

A  210 

- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

C. Other Conditions:

- i. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- ii. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF&CC, Govt. of India.
- iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

A

211



