

MINUTES OF THE 90th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 14TH, 15TH, 16TH, 17TH and 18TH SEPTEMBER, 2021

The 90th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 14th, 15th, 16th, 17th and 18th September, 2021 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
- Dr. Kirti Avishek - Member
3. Shri Niranjan Lal Agarwalla - Member
4. Dr. Raju Kumar - Member
5. Dr. Ajay Govind Bhatt - Member
6. Shri Ashok Kumar Dubey, IFS - Secretary

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 04th, 05th, 06th & 07th August, 2021. 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 : September 14, 2021 [Tuesday]

A. Matter referred by SEIAA

- i. Gokulpur Stone Mine of M/s Unique Stone Works, Mouza : Gokulpur, Block : Pakur, Dist. : Pakur, Jharkhand (2.81 Ha).

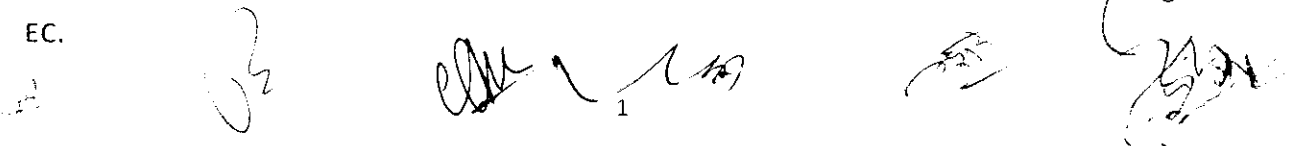
(Proposal No. : SIA/JH/MIN/221660 /2021).

The proposal was considered in the light of 91st meeting of SEIAA held on 12-13.08.2021 through which SEIAA has asked for physical verification regarding habitation (10 Kaccha house).

The SEAC is of the view that the Competent Authority (Circle Officer, Pakur) has already certified vide letter no. 661 dated 27.05.2020 that there are 10 Kaccha houses existing within 500 m of proposed site. Further, the owners have willingly agreed (during the Gram Sabha dated 25.05.2020) to relocate themselves from the site once the lease is granted to M/s Unique Stone Works.

As per JSPCB norms issued vide letter no. B-1966 dated 18.10.2017 the criteria of habitation is applicable only if the no. of houses exceed 160.

Hence, the Committee is of the view that there is no necessity of site visit for physical verification. The Committee reiterates its decision taken in 89th MOM of SEAC for grant of EC.



- ii. Stone Mine of M/s Mahakal Stone Works (Prop. : Shri Pankaj Mishra), Mouza : Gilamari, Division : Rajmahal, Dist. : Sahebganj, Jharkhand (2.529 Ha).

(Proposal No. : SIA/JH/MIN/ 211585/2021).

The proposal was considered in the light of 91st meeting of SEIAA held on 12-13.08.2021 through which SEIAA has asked for clarification regarding plot number mentioned in Lol.

The lessee has obtained clarification from the DMO, Sahebganj vide letter no. 928 dated 13.09.2021 which certifies that the correct plot no. is 182 (P) & 213. The original certificate has been submitted to SEAC.

Hence, the Committee again recommends grant of EC for plot no. is 182 (P) & 213 (F) based on decision taken in 89th MOM of SEAC.

B. Project Proponents has seek permission for withdrawal project.

- i. Basmata Stone Mine Project of M/s Heena Stone Works, Village : Basmata, P.S. : Malpahari OP, Tehsil : Pakur, Dist. : Pakur, Jharkhand (2.58 Ha)

(Proposal No. : SIA/JH/MIN/ 219822/2021)

The project is recommended for delisting as per letter dated 01.09.2021 of Project Authority.

- ii. Murgadanga Stone Deposit of M/s Sri Ganesh Stone Works, Village : Murgadanga, Talana : Hiranpur, Dist. : Pakur, Jharkhand (2.10 Ha)

(Proposal No. : SIA/JH/MIN/ 222416/2021)

The projects is recommended for delisting as per letter dated 01.09.2021 of Project Authorities.

C. Consideration of Proposals

1. Serangdag Bauxite Mine with production capacity of Bauxite 1,00,000 TPA, Top Soil 1,60,000 TPA, OB 1,69,800 TPA & Mineral reject 40,000 TPA with installation of crusher 100 TPH, Screening & Washing of M/s Hindalco Industries Ltd., Village : Serangdag, Hanrup and Paunri, Taluka : Bishunpur & Ghaghra, Dist. : Gumla, Jharkhand (77.89 Ha).

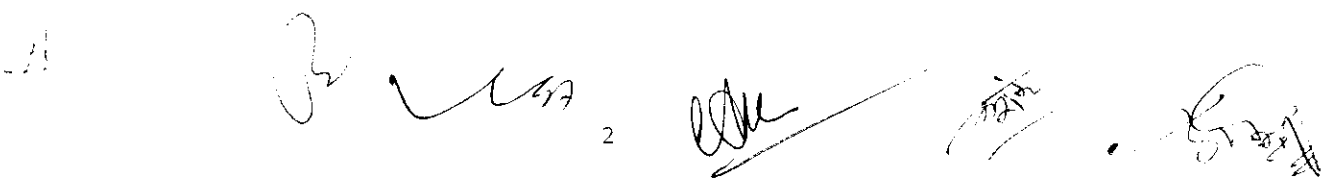
(Proposal No. : SIA/JH/MIN/29237 /2018).

Name of the consultant: JM EnviroNet Pvt. Ltd., Gurugram-122001

This is a existing project which has been taken for appraisal on 14.09.2021.

Observations:

The Lease Area of the project is 140.07 ha. EC was granted by MOEF over an area of 140.07 ha vide 11015/243/2005 – IA-II (M) dt 23.06.2006.



The Lessee has submitted proposal for surrender of 62.18 ha of forest area and issue of amended lease deed for an area of 77.89 ha non-forest land and accordingly submitted proposal for EC over an area of 77.89 ha. However, till date the amended/modified lease deed is not available with the Lessee. The Mine plan prepared and approved on 11.09.2020 for an area of 140.07 ha. Hence, it is considered that the Lease area is still 140.07 ha and thus the proposal is Category "A" project and to be considered at the Central Level.

Hence, the proposal was not taken up for consideration at SEAC.

7. Parolbona Stone Mine of M/s Parolbona Stone Mining (Partners : Md. Ali Hussain Ansari & Shri Akbar Shekh), Village : Parolbona, Thana no. : 09, Dist. : Pakur, Jharkhand (2.11 Ha).

(Proposal No. : SIA/JH/MIN/227807/2021).

Project Category : B2 – Application for Environment Clearance
 EC Application for : Boulder Stone: 38628 Cum Per Annum / 108158 Ton Per Annum
 Boulder Stone: 128.76Cum Per Day/ 360.52Ton Per Day
 DG Set: 100 KVA
 Mobile Crusher

Name of the consultant : OCEAO-ENVIRO Management Solutions (India) Pvt. Ltd.

This is a new project which has been taken for appraisal on 14.09.2021.

Project & Location Details :

Sl	Parameter	Details
1	Project Name	M/s Parolbona Stone Mining
2	Partner's:	Mohammad Ali Hussain Ansari And Shri Akbar Shekh
3	Lease Address	Mouza – Parolbona; Thana – Pakur, Thana No. – 09 District – Pakur; State Jharkhand
4	Lease Area	Ha : 2.11 ha Acres : 5.22 Acres
5	Type of Land	Non Forest – Rayati Land
6	Project Cost	45.00 Lakhs
7	EMP Budget	Capital: 5.55 Lakhs Recurring: 2.30 Lakh / year
8	CSR / CER Budget	Rs. 2.25 Lakhs
9	New or Expansion	New Project
10	Mineable Reserves	Cu.M.: 386258 Cu.M. Tonnes: 1081523 Tonnes
11	Mine Life	10 years
12	Man power	21
13	Water Requirement	8.63 KLD (Drinking:0.63KLD, Dust Suppression:4.0 KLD, Plantation:4.0 KLD
14	Water Source	From Nearby villages by tankers
15	DG Set / power	60 KVA
16	Crusher	Yes

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17	Nearest Water Body	:	Ganges River 15 KM
18	Nearest Habitation	:	Parolbona Village: 0.52 KM towards southern direction; Pakur 10 KM
19	Nearest Rail Station	:	Tilbhita 5 KM
20	Nearest Air Port	:	Ranchi: 50 KM
21	Nearest Forest	:	NIL
22	Road & Highways	:	NH 34 – 11.00 KM, MDR-1.5km in eastern direction

CO-ORDINATES

1	Latitude	From 24°42'5.20"N	To 87°48'39.20"E
2	Longitude	From 24°42'4.50"E	To 84°48'41.20"E

LAND DETAILS

1	Mouza : Parolbona	Khata No : 12	Plot Nos : 23 (P), 24 (P), 25 (P) & 26
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STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, vide letter no. 1082/M dated 07.07.2021.
2	CO	:	The CO, Pakur, vide letter no. 483, dated 27.04.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO/Contiguous	:	DMO, Pakur vide memo no. 1167/M, dated 16.07.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wildlife	:	DFO, Wildlife Hazaribagh, vide letter no. 1032, dated 23.06.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Territorial	:	DFO, Pakur Division vide letter no. 795, dated 19.05.2021 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. 1412 / M, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, letter no.-548, dated-12.04.2021
8	Mine Plan Approval	:	Letter No. 1456/M, Dated 21.08.2021

Working Details :

1	Mining Method	:	Mechanised, Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	:	5 years – 1.20 ha Life of Mine – 1.58 ha
3	Waste Generation	:	5 years–O.B–3384 Cu.M Life of Mine – O.B– 3384 Cu.M
4	Stripping Ratio	:	1:0.01
5	Working Days	:	300
6	Benches: size	:	6m x 6m
7	Elevation of Mine	:	46m In AMSL
8	Ground Level Elevation	:	45m In AMSL
9	Ultimate Working Depth	:	25m In AMSL/20m BGL
10	Water Table	:	15m In AMSL
11	Topography of Mine	:	Almost applied area are flat
12	Explosive Requirement	:	24.25 Kg/Day
13	Diesel/Fuel requirement	:	250.8 KL/Year (836 Litres/day)

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Removal of gritty Soil & Weathered rock in cum	Bench RL in Meters
1 st	38570	107996	1208	43-37
2 nd	38624	108147	1198	43-37
3 rd	38628	108158	978	43-37
4 th	38610	108108	0	37-31
5 th	38592	108058	0	37-31
Total	193024	540467	3384	

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	0.00	1.20	1.58	1.47	Water Body
2	Office /Store	0.00	0.00	0.00	0.00	
3	Crusher	0.00	0.11	0.00	0.00	Remove Crusher
4	Road	0.00	0.03	0.02	0.02	Approach Road
5	Garland Drain and Dump	0.00	0.08	0.00	0.00	Garland Drain
6	Safety Zone	0.00	0.46	0.46	0.46	Plantation

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7	Settling Tank	0.00	0.001	0.00	0.00	Settling Tank
8	Unutilized	2.11	0.23	0.00	0.00	
9	Utilized Area	0.00	0.00	2.06	1.95	
	TOTAL	2.11	2.11	2.11	2.11	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.46 ha	736 trees @ 1600 trees per ha
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 1.12 KM	448 Plants on both sides – 2.5m Distance

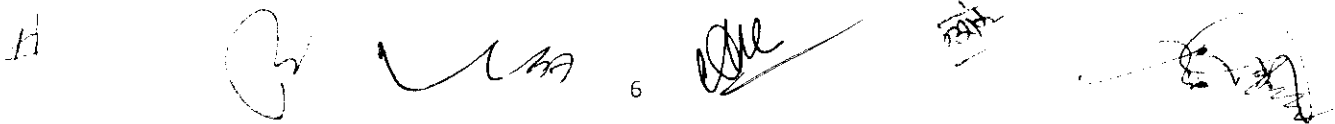
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Main work such as h/w, mortality 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 3384 Cu.M. 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 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 etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

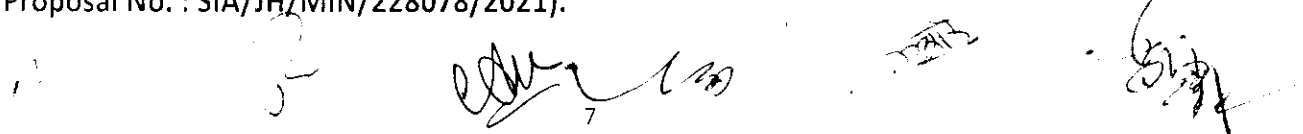
Undertaking submitted affirming:

- 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.

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 Parolbona Stone Mine of M/s Parolbona Stone Mining (Partners : Md. Ali Hussain Ansari & Shri Akbar Shekh), Village : Parolbona, Thana no. : 09, Dist. : Pakur, Jharkhand (2.11 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

3. Munker Stone Mine of M/s Mahakaleshwar Stone Mines, Village : Munker, Thana no. : 339, P.S. : Chhattarpur, Dist. : Palamu, Jharkhand (1.23 Ha).

(Proposal No. : SIA/JH/MIN/228078/2021).



Project Category : B2 – Application for Environment Clearance
 EC Application for: Boulder Stone :25415 Cu.M. Per Annum / 73704 Ton Per Annum –
 Crusher not Proposed in Applied Area
 DG Set: Not Requirement
 Mobile Crusher: N/A

Name of the consultant: OCEAO-ENVIRO Management Solutions (India) Pvt. Ltd.

This is a new project which has been taken for appraisal on 14.09.2021.

Project & Location Details:

Sl	Parameter	Details
1	Project Name	M/s Mahakaleshwar Stone Mines
2	Partner's:	Sri. Satyendra Kumar Chaurasiya, Aashish Kr. Chaurasiya and Sri Dhanjay Prasad
3	Lease Address	Mouza – Munker; Thana – Chattarpur, Thana No. – 339, District – Palamau; State Jharkhand
4	Lease Area	Ha: 1.23 ha Acres: 3.04 Acres
5	Type of Land	Non Forest – Rayati Land
6	Project Cost	35.00 Lakhs
7	EMP Budget	Capital: 3.564 Lakhs Recurring: 2.0 Lakh / year
8	CSR / CER Budget	Rs. 1.5 Lakhs
9	New or Expansion	New Project
10	Mineable Reserves	Cu.M.: 254904 Cu. M. Tonnes : 739222 Tonnes
11	Mine Life	10 years
12	Man power	19
13	Water Requirement	6.00 KLD (Drinking:0.57KLD, Dust Suppression:3.43 KLD, Plantation:2.0 KLD
14	Water Source	From Nearby villages by tankers
15	DG Set / power	Not Required
16	Crusher	Not Proposed
17	Nearest Water Body	Batane River 1.0 KM
18	Nearest Habitation	Munker Village: 1.5 KM towards western dir ; Palamau 41.52 KM
19	Nearest Rail Station	Japla 35 KM
20	Nearest Air Port	Gaya: 130 KM
21	Nearest Forest	NIL
22	Road &	MDR (Chhatarpur Rd.)– 0.8 KM;

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CO-ORDINATES

1	Latitude	From 24°21'44.90"N	To 24°21'47.40"N
2	Longitude	From 84°15'34.60"E	To 84°15'34.40"E

LAND DETAILS

1	Mouza : Munkeri	Khata No : 40	Plot No : 1089
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STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Palamau, Medininagar vide letter no. 1571/M dated 27.10.2018.
2	CO	:	The CO, Chhattarpur (Palamau) vide letter no. 201, dated 16.03.2018 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar
3	DMO	:	DMO, Palamau vide memo no. 1100/M, dated 24.07.2019 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wildlife	:	Deputy Director, Palamu Tiger Project, North Division, Medininagar vide letter no. 1827, dated 01.08.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Territorial	:	DFO, Medininagar Division vide letter no. 3031, dated 21.08.2019 certified that the distance of notified forest is 400 m from proposed project site
6	DSR	:	The DC-cum-District Magistrate, Palamau, Medininagar vide letter no. 465 / M, dated 17.06.21 has informed that this project is part of District Survey Report (DSR) at Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 19.06.2018
8	Mine Plan Approval	:	Letter No. 517/G dated 18.06.2019

Working Details :

1	Mining Method	:	Mechanised, Jack Hammer, Drilling & Blasting
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			be used	
2	Quarry Area	:	5 years – 0.62 ha	Life of Mine – 0.73 ha
3	Waste Generation	:	5 years–2722 Cu.M	Life of Mine – 2722 Cu.M
4	Stripping Ratio	:	1:0.02	
5	Working Days	:	300	
6	Benches: size & No	:	6m x 6m	
7	Elevation of Mine	:	274m In AMSL	
8	Ground Level Elevation	:	268m In AMSL	
9	Ultimate Working Depth	:	250m AMSL/18m BGL	
10	Water Table	:	238m AMSL	
11	Topography of Mine	:	Uneven land	
12	Explosive Requirement	:	16.4 Kg/Day	
13	Diesel/Fuel requirement	:	238.8 KL/year (796 Litres/day)	

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Removal of gritty Soil & Weathered rock in cum	Bench RL in Meter
1 st	25200	73080	2200	274-258
2 nd	25415	73704	522	274-268
3 rd	24584	71294	0	268-262
4 th	24445	70891	0	268-262
5 th	23793	69000	0	262-256
Total	123437	357969	2722	

Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	0.62	0.73	Water Body
2	Office /Store	0.00	0.00	0.00	
3	Crusher	0.00	0.00	0.00	
4	Road	0.00	0.03	0.02	Approach Road

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5	Garland Drain with Dump	0.00	0.07	0.00	Garland Drain
6	Safety Zone	0.00	0.39	0.39	Plantation
7	Settling Tank	0.00	0.001	0.00	Settling Tank
8	Unutilized	1.23	0.12	0.00	
9	Utilized Area	0.00	1.111	0.00	
TOTAL		1.23	1.23	1.23	

ENVIRONMENT MANAGEMENT

Green Belt Development :

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.39 ha	624 trees @ 1600 trees per ha
2	Other Reclaimed Area	:	NIL	NIL
3	Haul /Approach Road	:	0.16 KM	64 Plants on both sides – 2.5 m distance

- 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 3 x 3 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 2722 Cu.M. 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 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

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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.


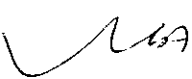

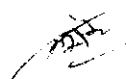
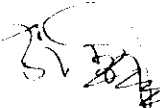
Air Quality Management

- 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.

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 Munker Stone Mine of M/s Mahakaleshwar Stone

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Mines, Village : Munkeri, Thana no. : 339, P.S. : Chhattarpur, Dist. : Palamu, Jharkhand (1.23 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

Brick Clay Mining Project of M/s Binda Bricks, Village : Putru, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (2.011 Ha).

(Proposal No. : SIA/JH/MIN/204466/2021).

Project Category : B2 – Application for Environment Clearance
 EC Application for : Brick Clay : 2400 Cu.M. / year i.e. 1200000 Brick Yearly
 Waste : No Waste Generate
 DG Set :N/A
 Mobile Crusher : Not Required

Name of the consultant : Visiontek Consultancy Pvt. Ltd.

This is a new project which has been taken for appraisal on 14.09.2021

PROJECT and LOCATION Details:

Sl	Parameter		Details
1	Project Name	:	Putru Brick Clay Mining
2	Lessee:	:	M/s Binda Bricks , Prop- Shri Shakti Singh
3	Lease Address	:	Village : Putru, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand
4	Lease Area	:	2.011 Ha 4.97 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	15.00 Lakhs
7	EMP Budget	:	Capital: 4.60 Lakhs Recurring: 2.30 Lakh / year
8	CSR / CER Budget	:	Rs.- 0.75 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M. : 0621.55 Cu. M. Tonnes : N/A
11	Mine Life	:	8.59 Years / current proposal – 5 years
12	Man power	:	30 Person
13	Water Requirement	:	6 KLD (Drinking: 1 KLD, Dust Suppression & Plantation: 5 KLD)
14	Water Source	:	Water Tanker nearest Subarnerekha River
15	DG Set / power	:	Not Applicable
16	Crusher	:	Not Applicable
17	Nearest Water Body	:	Subarnerekha River at the distance of 2.12 km West side from the mine site.
18	Nearest	:	Berahatu village 650meter SE direstion from

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	Habitation		the mine site.
19	Nearest Rail Station	:	Galudih Railway Station 3.91 km SE direction from the mine site.
20	Nearest Air Port	:	Sonari Airport, Jamshedpur 27.31 km WN direction from the mine site.
21	Nearest Forest	:	Jamshedpur forest division. Letter no – 154 ^F Dt- 23-07-2021
22	Road & Highways	:	NH 33 0.43 km North direction from the mine site.

CO-ORDINATES

1	Latitude	From 22°40'43.91"N	To 22°40'50.61"N
2	Longitude	From 86°23'35.71"E	To 86°23'42.31"E



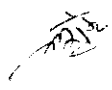

LAND DETAILS

The lease area is situated near Putru

Khata No.	Plot No.	Area In Acre.
74	389 (P)	0.76
60	390	0.41
46	394 (P)	0.80
98	396 (P)	0.95
79	397 (P)	0.50
108	398 (P)	0.80
35	401 (P)	0.75
Total Area in Acre		4.97

STATUTORY CLEARANCES

1	LOI/Lease docs	:	Not Required (Land agreement with Owner 4.11 Years)
2	CO	:	The CO, Ghatsila vide letter no. 31 Dated 10.01.2019 has mentioned the plot no. of the project recorded as "Jangle Jhari" in Khatiyani & Register II.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide letter no. 1022 Dated 26.07.2019 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 20190601, Dated 01.06.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is

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			situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no.- 1545 Dated- 23.07.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of East Singhbhum district.
7	Gram Sabha	:	BDO, Ghatsila letter no- 82 Dated- 17.01.2019
8	Mine Plan Approval	:	Deputy Director, Geology, Palamu Memo No.- 434/G Dated- 21.02.2019

Working Details :

1	Mining Method	:	Manual Method Mining
2	Quarry Area	:	5 years – 0.690 ha 5 years – 0.690 ha
3	Waste Generation	:	5 years– Nil 5 years– Nil
4	Stripping Ratio	:	NA
5	Working Days	:	200
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	In 119 MSL
8	Ground Level Elevation	:	In 119 MSL
9	Ultimate Working Depth	:	In 117 MSL
10	Water Table	:	In 102- 108 MSL. 5 mbgl
11	Topography of Mine	:	Flat area
12	Explosive Requirement	:	Not Applicable
13	Diesel/Fuel requirement	:	Not Required

Production Details :

Year	Production of stone in CUM	Top soil Removal in CUM
1st	2400	3845
2nd	2400	
3rd	2400	

4th	2400	
5th	2400	
Total	12,000	3845

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	0.000	0.690	0.690	0.690	Land Cultivation
2	Office /Store	0.000	0.217	0.217	0.217	-
3	Brick Kiln	0.000	0.474	0.474	0.474	Brick
4	Road	0.000	0.00	0.00	0.00	-
5	Garland Drain	0.000	0.000	0.000	0.000	-
6	Safety Zone	0.000	0.161	0.161	0.161	-
7	Settling Tank	0.000	0.000	0.000	0.000	-
8	Unutilized	2.011	0.469	0.469	0.469	-
	TOTAL	2.011	2.011	2.011	2.011	-

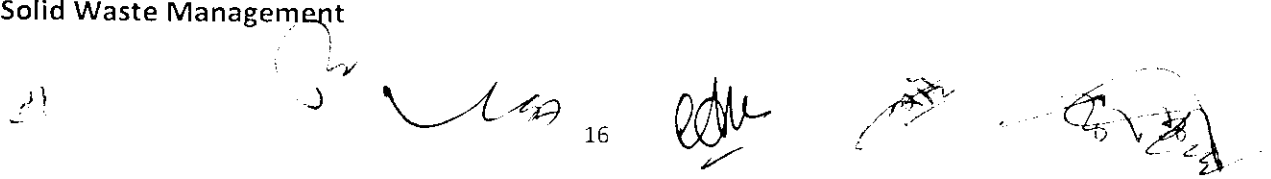
ENVIRONMENT MANAGEMENT

Green Belt Development :

Sl. No.	Location		Area/Length	No of Trees
1	Safety Zone	:	0.161 Ha	No
2	Other Reclaimed Area	:	0.00	No
3	Haul /Approach Road	:	550 meter	400 Tree 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 3 x 3 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



- Top soil Generation will be 3845 Cu.M. during the life of Mine. Top soil storage is 0.08 ha. The Top soil shall be used backfill after end of life of the mine.

Water Pollution Control Measures:

1. Mining operation will be restricted to the depth of 2m from surface level.
2. Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

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

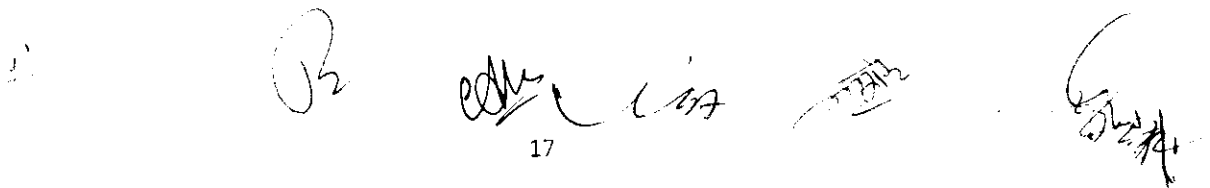
As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

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

Undertaking has been submitted affirming :

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

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 Brick Clay Mining Project of M/s Binda Bricks, Village : Putru, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (2.011 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.



5. Amjhar Stone Deposit of M/s Katyayni, Village : Amjhar, Tehsil : Gawan, Dist. : Giridih, Jharkhand (2.89 Ha).

(Proposal No. : SIA/JH/MIN/227860/2021).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone : 163644Cu.M. / year i.e.474567 TPA

DG Set : 60 KVA

Mobile Crusher

Name of the consultant : M/s. Udaipur Min-Tech Pvt. Ltd.

This is a new project which has been taken for appraisal on 14.09.2021

Project & Location Details :

Sl	Parameter	:	Details
1	Project Name	:	Amjhar Stone Deposit of M/s Katyayni
2	Lessee:	:	Raj Kumar Ojha
3	Lease Address	:	Village : Amjhar, Tehsil : Gawan, Dist. : Giridih, Jharkhand
4	Lease Area	:	Ha: 2.89 Acres: 7.16
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	98.60 Lakhs
7	EMP Budget	:	Capital: 7.70 Lakhs Recurring: 3.85 Lakh / year
8	CSR / CER Budget	:	Rs. 3.80 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 650178 Cu. M.(Stone) Tonnes: 1885515 Tonnes
11	Mine Life	:	5 YEARS
12	Man power	:	43
13	Water Requirement	:	17.695 KLD (Drinking: 2.695 KLD, Dust Suppression:5 KLD, Plantation: 10.KLD
14	Water Source	:	Nearby Villages of Amjhar
15	DG Set / power	:	60 KVA
16	Crusher	:	Yes over an area 0.05 ha. Mobile Crusher
17	Nearest Water Body	:	Ushri River 35 KM
18	Nearest Habitation	:	Town Gawan is in approx. 19 KM
19	Nearest Rail Station	:	Rajdhanwar is in 14 km
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi is in approx. 200
21	Nearest Forest	:	Nil

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22	Road & Highways	:	Jamua – Balia Road o.26 km
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CO-ORDINATES :

1	Latitude	From 24° 32'15.37" N	To 24° 32'21.89" N
2	Longitude	From 85° 52'17.70" E	To 85° 52'28.48" E

LAND DETAILS :

		Khata no.	Plot no.
1	Mouza : Amjhar	09	250, 251, 252, 253, 254, 255, 256, 266, 267, 271, 272, 273, 274, 276, 284, 289, 261, 262, 422, 423, 424, 425(P)
		16	268, 269, 270,
		22	277, 281, 282, 287, 288, 296, 297, 302, 303, 304,
		20	278, 286, 290, 291, 292, 295, 307
		18	279, 280

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, vide letter no. 518/M dated 14.06.2021.
2	CO	:	The CO, Gawan vide letter no.148, dated 25.03.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in Khatiyon
3	DMO	:	DMO, Giridih vide memo no. 525/M, dated 17.06.2021 certified no lease exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.
4	DFO Wildlife	:	Divisional Forest Office, Wildlife Hazaribagh vide letter no. 1028, dated 23.06.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Territorial	:	DFO, Giridih East Division vide letter no. 953, dated 29.04.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Giridih vide letter no. 571, dated 28.06.2021 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

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7	Gram Sabha	:	19/12 dated 27.04.2021
8	Mine Plan Approval	:	638/G dated 04.08.2021

Working Details :

1	Mining Method	:	OPENCAST SEMI-MECHANIZED METHOD
2	Quarry Area	:	5 years – 1.89 ha Life of Mine – 1.89 ha
3	Waste Generation	:	5 years– 41135 Cu.M Life of Mine –4135 Cu.M
4	Stripping Ratio	:	
5	Working Days	:	300 Days
6	Benches: size & No	:	6m X 6m
7	Elevation of Mine	:	308 to 314 Amsl
8	Ground Level Elevation	:	308 Amsl
9	Ultimate Working Depth	:	275 Amsl (39m)
10	Water Table	:	255 to 260 Amsl
11	Topography of Mine	:	The area is situated on the Chota Nagpur Plateau and is diverse in nature. It is bounded by Jharkhand district and part of Nawada District of Bihar to the North, by Dhanbad & Bokaro on the South, by the district of Deoghar and Jamtara on the east, and by Hazaribagh & Koderma on the West. Giridih city is situated on the banks of Ushri River. This is one of the main tributary of the Barakar River.
12	Explosive Requirement	:	8 Tons/year
13	Diesel/Fuel requirement	:	240 KL/year (800 litres/day)

Production Details :

Year	Recovery of stone 80%(cum)	Stone in MT=Volume X 2.9	O.B. in Cum
1 st Year	163644	474567	24680
2 nd year	119648	346979	0.00
3 rd Year	125120	362848	11385
4 th Year	82772	240038	0.00
5 th year	158930	460898	5070
Total	650144	1835330	41135

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Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.89	1.89	1.89 (Water Body)
2	Office /Store	0.00	0.00	0.00	0.00
3	Crusher	0.00	0.05	0.05	0.05
4	Road	0.00	0.01	0.01	0.01
5	Garland Drain	0.00	(0.05 Comes under Safety zone)	(0.05 Comes under Safety zone)	(0.05 Comes under Safety zone)
6	Safety Zone	0.00	0.94	0.94	0.94
7	Settling Tank	0.00	(0.02 Comes under Safety zone)	(0.02 Comes under Safety zone)	(0.02 Comes under Safety zone)
8	Unutilized	2.89	0.00	0.00	0.00
	TOTAL	2.89	2.89	2.89	2.89

ENVIRONMENT MANAGEMENT

Green Belt Development :

S.L	Location		Area/Length	No of Trees
1	Safety Zone	:	1.89	1500
2	Other Reclaimed Area	:	nil	
3	Haul /Approach Road	:	0.104	174

- 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 41135 Cu.M. during the life of Mine. Dump area is not proposed for waste storage **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 etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

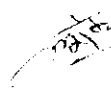
Undertaking submitted affirming:

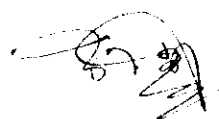
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are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

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 Amjhar Stone Deposit of M/s Katyayni, Village : Amjhar, Tehsil : Gawan, Dist. : Giridih, Jharkhand (2.89 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Hurumbil Stone Deposit of M/s Srijan Infraassociate Pvt. Ltd., Village : Hurumbil, Tehsil : Patamda, Dist. : East Singhbhum, Jharkhand (2.727 Ha).

(Proposal No. : SIA/JH/MIN/223415/2021).

Project Category : B2 – Application for Environment Clearance
 EC Application for: Boulder Stone : 28,000 Cu.M. / year i.e. 70,000 TPA
 DG Set :60 KVA & Mobile Crusher

Name of the consultant : M/s Udaipur Min-Tech. Pvt. Ltd

This is a new project which has been taken for appraisal on 14.09.2021.

Project & Location Details:

Sl	Parameter		Details	
1	Project Name	:	Hurumbil Stone Deposit of M/s. Srijan Infrassociate Pvt.Ltd.	
2	Applicant	:	M/s. Srijan Infrassociate Pvt.Ltd.	
3	Lease Address	:	Mauza - Hurumbil, Thana - Patamda, Thana No.- 105 (280), District – East-Singhbhum, Jharkhand	
4	Lease Area	:	Ha: 2.727	Acres: 6.74
5	Type of Land	:	Non Forest – Rayati Land	
6	Project Cost	:	81.60 Lakhs	
7	EMP Budget	:	Capital: 6,70 Lakhs	Recurring: 3.85 Lakh / year
8	CSR / CER Budget	:	Rs. 3.55 Lakhs	
9	New or Expansion	:	New Project	

10	Mineable Reserves	:	Cu.M.: 140645.70 Cu. M.	Tonnes: 351614.25 Tonnes
11	Mine Life	:	5.02 years	
12	Man power	:	22 (Approx.)	
13	Water Requirement	:	Total water requirement is about 16.965 KLD (0.77 KLD Domestic Uses + 10 KLD Dust Suppression & 6.195 KLD Green Belt development) from nearby village Hurumbil.	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	60 KVA	
16	Crusher	:	NO	
17	Nearest Water Body	:	River 8.00 KM	
18	Nearest Habitation	:	Patamda town which is situated approx 12 km from applied area.	
19	Nearest Rail Station	:	Biramdih approx 20 km. in the North West direction from applied area.	
20	Nearest Air Port	:	Jamshedpur Sonari Airtport is situated at approx 36 km.	
21	Nearest Forest	:	6.8 km	
22	Road & Highways	:	A PWD road is well connected to lease area. Further, this PWD road is connected to Barabazar- Madhupur Via Bara Bangurda is crossing on the South west side at a distance of about 06 km from the applied area.	
24	Latitude		From 22 ⁰ 59'12.00" N	To 22 ⁰ 59'19.20" .
25	Longitude		From 86 ⁰ 27'43.50". E	To 86 ⁰ 27'52.90" E

LAND DETAILS

Sl.no.	Mouza	Khata.no	Plot Nos
1	Hurumbil	88	721, 730, 731, 732, 733, 746,
2		83	720
3		85	722
4		60	713, 714, 717

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (Lol) has been issued by District Mining Office, East Singhbhum, Sonari vide letter no
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			175 dated 02.02.2021.
2	CO	:	The CO, Patamda vide letter no. 663, dated 23.12.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyari
3	DMO	:	DMO, East Singhbhum vide memo no. 342, dated 22.02.2021 certified that one lease (5.00 Acres) exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.
4	DFO Wild Life	:	Deputy Conservator of Forest, Field Director Elephant Project, Jamshedpur vide letter no. 605, dated 12.04.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 2774, dated 14.10.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of East Singhbhum district.
7	Gram Sabha	:	Letter no. 2840 dated 12.12.2020
8	Mine Plan Approval	:	Letter No. 422/G dated 17.02.2021

Working Details

1	Mining Method	:	Semi Mechanised. Jack Hammer, Drilling & Blasting to be used	
2	Quarry Area	:	5 years – 1.902 ha	Life of Mine – 1.902 ha
3	Waste Generation	:	5 years– 64469 Cu.M	Life of Mine – 64469 Cu.M
4	Stripping Ratio	:	1: 0.28	
5	Working Days	:	300 days	
6	Benches: size & No	:	6m X 6m	
7	Elevation of Mine	:	234 to 240 Amsl.	

8	Ground Level Elevation		234 Amsl
9	Ultimate Working Depth	:	215 Amsl (25 m)
10	Water Table	:	210 Amsl
11	Topography of Mine	:	Topographically, Hurumbil Stone Deposit represents a hilly terrain. The highest elevation i.e. 240m peak is situated towards western part of the area, whereas lowest relief is 232 Amsl is located in the base part of the applied area. During the field study of the area, the surrounding wells and tube wells of the area are also studied and it was observed that the ground water body is found at about 20m below the base i.e. at about 210 Amsl. Since the ultimate depth has been designed up to the depth of 215 Amsl, there is no chance of intervene the water body.
12	Explosive Requirement	:	3 Tonnes /year
13	Diesel/Fuel requirement	:	4.8 KL/Year (160Liters /day)

Production Details

Year	Total excavation of stone cum	Total excavation of stone		Intercalated waste 5% in cum	O.B. in cum	Total waste In cum
		Cum	MT			
1st Year	31111.11	28000.00	70000.00	3111.11	16590.00	19701.11
2nd year	31111.11	28000.00	70000.00	3111.11	13468.00	16570.00
3rd Year	31111.11	28000.00	70000.00	3111.11	296.00	3407.00
4th Year	31111.20	28000.00	70000.00	3111.20	17440.00	20551.20
5th year	31111.11	28000.00	70000.00	3111.11	1120.00	4231.11
Total	155555.64	140000.00	350000.00	15555.64	48914.00	64469.64

Land Use

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.902	1.902	1.902
2	Office /Store	0.00	0.00	0.00	0.00
3	Crusher	0.00	0.00	0.00	0.00
4	Road	0.00	(0.04 Comes under	(0.04 Comes under	(0.04 Comes under

			safety barrier zone)	safety barrier zone)	safety barrier zone)
5	Garland Drain	0.00	(0.05 Comes under safety barrier zone)	(0.05 Comes under safety barrier zone)	(0.05 Comes under safety barrier zone)
6	Safety Zone	0.00	0.825	0.825	0.825
7	Settling Tank	0.00	(0.02 Comes under safety barrier zone)	(0.02 Comes under safety barrier zone)	(0.02 Comes under safety barrier zone)
8	Unutilized	2.727	0.00	0.00	0.00
	TOTAL	2.727	2.727	2.727	2.727

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.825	2068
2	Other Reclaimed Area	:	NIL	NIL
3	Haul /Approach Road	:	0.09	150

- 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 64469.64 Cu.M. during the life of Mine. Dump area is not proposed for waste storage.

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.

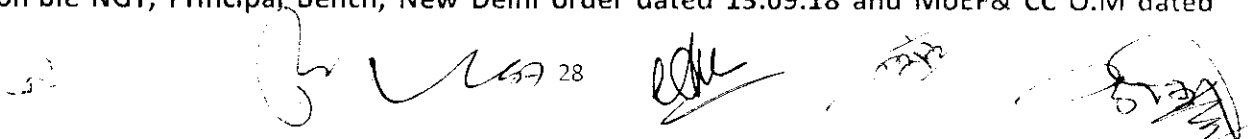
Air Quality Management

- 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 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.

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 Hurumbil Stone Deposit of M/s Srijan Infraassociate Pvt. Ltd., Village : Hurumbil, Tehsil : Patamda, Dist. : East Singhbhum, Jharkhand (2.727 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I

Day 2 : September 15, 2021 [Wednesday]

Consideration of Proposals

1. Simariya Stone Deposit of M/s Pawanputra Stone Works, Vill. : Simariya, Thana : Jirwabari, Dist. : Sahibganj (6.07 Ha)

(Proposal No. : SIA/JH/MIN/61685/2017)

As per the 89th MOM of SEAC period of 02 months were granted to applicant to submit the required documents which ends on 05.10.2021.

Hence, the Committee is of the view that no further time limit extension will be provided beyond 05.10.2021 to submit the required documents, the project will be recommended for delisting without any further intimation to the PAs.

2. Kunhara Kalan Stone Mine Project of M/s Ramcon Infrastructure Pvt. Ltd., Village : Kunhara Kalan, Thana : Barkatha, Dist. : Hazaribagh, Jharkhand (1.821 Ha).

(Proposal No. : SIA/JH/MIN/208423/2021)

Project Category : B2 – Application for Environment Clearance

EC Application for : Production capacity: 45,102.96 Cu.M. / year i.e. 121777.99 TPA

Name of the consultant: P & M Solution, Noida

This is an expansion project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter	Details	
1	Project Name	:	Kunhara kalan Stone Mining Project
2	Lessee:	:	M/s Ramcon Infrastructure Pvt. Ltd
3	Lease Address	:	Prop.: 1.Sri Nilesh Ranjan, S/o Sri Saryu Prasad Mehta 2. Sri Ranjit Kumar, S/o Sri Sambhu Prasad, Village : Kunhara Kalan, Thana : Barkatha, Dist. : Hazaribagh, Jharkhand.
4	Lease Area	:	Ha: 1.821 ha Acres: 4.50 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	Rs. 20 Lakhs
7	EMP Budget	:	Capital: 8.275 Lakhs Recurring: 7.0 Lakh / year
8	CSR / CER Budget	:	Rs. 0.40 Lakhs

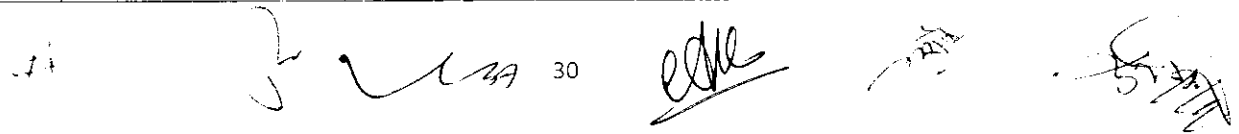
9	New or Expansion	:	Expansion	
10	Mineable Reserves	:	Cu.M.: 194410.80 Cu. M.	Tonnes : 524909.16 Tonnes
11	Mine Life	:	4.30 years	
12	Man power	:	24	
13	Water Requirement	:	7.20 KLD (Drinking: 0.24 KLD, Dust Suppression: 4.10 KLD, Plantation: 2.86 KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	Nil	
16	Crusher	:	No crusher	
17	Nearest Water Body	:	Baradbohi Nadi, 0.95 km Barhoriya Nadi , 0.95 km	
18	Nearest Habitation	:	Kunhara Kalan, 0.30 km	
19	Nearest Rail Station	:	Parsabad Railway station, 21.70 km	
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, 97.80 km	
21	Nearest Forest	:	Protected Forest near Simradhab village, 4.25 km Mahabar Protected Forest, 2.50 km. Jamua Protected Forest, 7.30 km Jhingibarai Protected Forest, 8.35 km	
22	Road & Highways	:	NH-2, Approx. 0.95 km. in N direction	

CO-ORDINATES :

1	Latitude		From 24°10'04.7268"N	To 24°10'11.9893"N
2	Longitude		From 85°35'13.5658"E	To 85°35'19.8625"E

LAND DETAILS :

		:	Khata No.	Plot No.
1	Mouza- Kunhara Kalan		40	837, 838, 839
			56	1002
			37	1003
			55	1004
			22	1005
			36	1006, 1008
			47	1007 (P)
			35	1009
			29	1010

30 

		53	1000
		23	1013

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The lease deed has been issued by District Mining Office, Hazaribagh valid From 02.07.2015 to 01.07.2025.
2	CO	:	The CO, Barkatha vide letter no. 95 dated 23.02.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani
3	DMO	:	DMO, Hazaribagh vide letter no. 457/M, dated 31.07.2021 certified that one lease (3.145 Acres) exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO wildlife Hazaribagh, vide letter no. 301, Hazaribagh on 13.02.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Hazaribagh West Division, Hazaribagh vide letter no. 1152 on 17.04.2011 certified that the distance of notified forest is 400 m from proposed project site
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Hazaribagh district.
7	Gram Sabha	:	On 11-10-2011
8	Mine Plan Approval	:	Vide letter no. 499/G dated 03/04/2021
9	Previous EC Letter	:	SEIAA letter no.369, dated on 07.05.2014.

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years – 1.821 ha
3	Waste Generation	:	5 years– 24567.84 Cu.M
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	375 to 383 AMSL
8	Ground Level Elevation	:	375 AMSL
9	Ultimate Working	:	365 AMSL (10 mbgl)

	Depth		
10	Water Table	:	355 AMSL (20m bgl)
11	Topography of Mine	:	Small hillock

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench Marks
1 st	45057.60	121655.52	5006.40	371 mRL
2 nd	45102.96	121777.99	5011.44	365 mRL
3 rd	46062.00	121524.30	6171.00	365 mRL
4 th	46656.00	121597.20	6804.00	371 mRL
5 th	14175.00	38272.50	1575.00	365 mRL
Total	197053.56	524827.51	24567.84	

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period	Conceptual Plan
Quarry	1.098	1.541ha (0.293 ha. area shall be backfilled)	1.541 (0.293 ha area shall be backfilled & 1.248 ha area shall be converted as water reservoir)
Road	0.024	0.003	0.003
Waste Dump	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.277	0.277
Total	1.123	1.821	1.821
Unused Area	0.698	0.000	0.000
Lease Hold Area	1.821	1.821	1.821

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.277	690
2	Other Reclaimed Area	0.293	730
3	Haul /Approach Road	0.003	10

- 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

11

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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 24567.84 Cu.M. during the life of Mine. Dump area proposed for waste storage is 0.293 ha. The Waste shall be handled as detailed below:

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 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.

Earlier this proposal was presented in SEAC on 04-07.08.2021 in which requisite document was sought are under –

The project was not taken up for appraisal as the PA's or their consultants have not submitted certified EC compliance report of previous EC letter no. 369, dated 07.05.2014 by the Regional Office of MoEF&CC and also certified compliance report CTU granted by JSPCB.

The Project Authorities have submitted the above mentioned document.

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 Kunhara Kalan Stone Mine Project of M/s [redacted] Infrastructure Pvt. Ltd., Village : Kunhara Kalan, Thana : Barkatha, Dist. : Hazaribagh, Jharkhand (1.821 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

3. Residential Group Housing Project "Shivam Heights" of M/s Durga Developers Pvt. Ltd, Mouza : Bada Ghaghra, Anchal : Argora, Tehsil : Ranchi, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/ 196279/2021)

Name of the consultant : P and M Solution , Noida

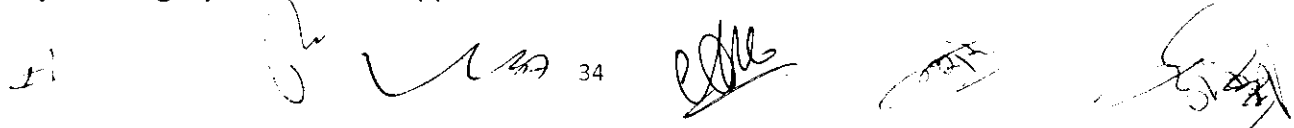
The Committee is of the view that notice will be issued to PAs to attend the next SEAC meeting, failing which the project will be recommended for delisting without any further intimation.

4. Amlagachhi Narayantola Stone Deposit of Sri Avinash Kumar Bhakat, Village : Amlagachhi Narayantola, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.83 Ha).

(Proposal No. : SIA/JH/MIN/ 221563/2021)

Project Category : B2 – Application for Environment Clearance

34



EC Application for: Production capacity: 53,856 cu.m/annum or 1,34,640.00 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021.

Project & Location details :

Sl	Parameter		Details
1	Project Name	:	Amlagachhi Narayantola Stone Deposit
2	Lessee:	:	M/s Sri Avinash Kumar Bhagat S/o Pradeep Kumar Bhagat At P.O.- Rajgram, P.S.- Murarai, District- Birbhum , State - West Bengal
3	Lease Address	:	Village - Amlagachhi Narayantola, Block- Maheshpur, District - Pakur, Jharkhand
4	Lease Area	:	Ha:2.83 ha Acres:7.0 Acres
5	Type of Land	:	Non Forest - Rayati Land
6	Project Cost	:	Rs. 40 Lakhs
7	EMP Budget	:	Capital: 6.13Lakhs Recurring: 4.17 Lakh / year
8	CSR / CER Budget	:	Rs. 0.80 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:538520 Cu. M. Tonnes:13,46,300 tons
11	Mine Life	:	10.35 or 10.50 years
12	Man power	:	30
13	Water Requirement	:	13.70 KLD (Drinking:0.30KLD, Dust Suppression:5.64KLD, Plantation:7.80 KLD
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Bansoli Nadi, 5.60 km
18	Nearest Habitation	:	Amlagachhi Narayantola, 0.45km
19	Nearest Rail Station	:	Rajgram Railway station, 15.30 km
20	Nearest Air Port	:	Sido Kanhu Airport , 57.0 km
21	Nearest	:	Protected Forest near Belpahari Village, 1.80 km

	Forest		Protected Forest near Panchanandpur Village, 1.10 km Protected Forest near Ganropahari Village, 7.80 km -
22	Road & Highways	:	SH-18, 8.60 km.

CO-ORDINATES :

1	Latitude		From 24°32'34.89"N	To 24°32'44.65"N
2	Longitude		From 87°42'55.98"E	To 87°43'04.27"E

LAND DETAILS :

Sl no.	Mouza	:	Khata no.	Plot No.
1	Amlagachhi Narayantola		02	268 (P)
			07	267, 273 (P), 274 (P)
			13	265 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Lol has been issued by District Mining Office, Pakur vide letter no. 977/M dated 26.06.2021.
2	CO	:	The CO, Maheshpur vide letter no. 820, dated 04.10.2019 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S Kh. & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1028/M, dated 02.07.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wildlife	:	DFO, Wildlife Hazaribagh, vide letter no. 569, dated 17.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Division, vide letter no. 331 dated 17.02.2021 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. 1412, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with re. to

			Environmental Clearance can be taken.
7	Gram Sabha	:	On 18-10-2019
8	Mine Plan Approval	:	DMO, Pakur Vide Memo no. 1218/M dated 19.07.2021

Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.407 ha
3	Waste Generation	:	5 years-13440.00Cu.M
4	Stripping Ratio	:	1: 0.07
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	125 AMSL to 130 AMSL
8	Ground Level Elevation	:	125 AMSL
9	Ultimate Working Depth	:	90 AMSL (35 bgl)
10	Water Table	:	80 AMSL (45 bgl)
11	Topography of Mine	:	Area represents a undulating topography

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Meters
1 st	42560.00	106400.00	10720.00	130 mRL - 120 mRL
2 nd	48480.00	121200.00	0.0	126 - 114 mRL
3 rd	51200.00	128000.00	0.0	120- 108 mRL
4 th	53856.00	134640.00	2720.00	127 mRL - 108 mRL
5 th	53856.00	134640.00	0.0	114 - 102 mRL
Total	249952.00	624880.00	13440.00	

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.407	2.098 (0.208 ha area shall be

A

Quarry

			backfilled & 1.89 ha RWH)
Road	0.012	0.003	0.003 (0.009 comes under quarry)
Road Barrier	0.045	0.045	0.045
Proposed Dump	Nil	0.218	Nil
Safety Zone Plantation	Nil	0.684	0.684
Total	0.057	2.357	2.330
Unused Area	2.773	0.473	0.000

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.684 ha	1710
2	Other Reclaimed Area	:	0.208 ha	520
3	Haul /Approach Road	:	0.370 km	370

- 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 13440.00Cu.M. during the life of Mine. Proposed waste shall be temporarily dump on western side. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 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.

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 Amlagachhi Narayantola Stone Deposit of Sri ... sh Kumar Bhakat, Village : Amlagachhi Narayantola, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.83 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

5. Bishanpur Stone Deposit of M/s Dada Bhai Stone Works, Village : Bishanpur, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (2.48 Ha).

(Proposal No. : SIA/JH/MIN/ 66683/2021)

Project Category : B1 – Application for TOR

TOR Application for: Production capacity: 57758.40 cu.m/annum or 1,44,396 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

PROJECT and LOCATION Details:

Sl	Parameter	:	Details
1	Project Name	:	Bishanpur Stone Deposit
2	Lessee:	:	M/S Dada Bhai Stone Works (Partner- Md. Maniruzzaman), S/O Late Ikaramul Haque At P.O.-Jampur, District- Sahebganj, State – Jharkhand'
3	Lease Address	:	Village : Bishan pur, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand
4	Lease Area	:	Ha:2.48 Ha Acres:6.12 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	Rs. 35 Lakhs
7	EMP Budget	:	Capital: 4.245Lakhs Recurring: 4.171 year
8	CSR / CER Budget	:	Rs. 0.70 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:559300.00Cu. M. Tonnes:1398250.00 tons
11	Mine Life	:	10 years
12	Man power	:	27
13	Water Requirement	:	11.30 KLD (Drinking:0.27KLD,Dust Suppression:5.24KLD, Plantation:5.73KLD

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14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No Crusher
17	Nearest Water Body	:	Torai Nadi, 4.0 km
18	Nearest Habitation	:	Bishanpur, 0.50 km
19	Nearest Rail Station	:	Tilbhita Railway station, 8.0 km
20	Nearest Air Port	:	BirsaMunda Airport, Ranchi, 290.85 km
21	Nearest Forest	:	Protected Forest near Belpahari Village, 2.50 km Protected Forest near Dhapahari village, 2.20 km Protected Forest near Maharo village, 4.60 km
22	Road & Highways	:	SH-18, 15.0 km. NH-34, 15.8 km.

CO-ORDINATES

1	Latitude	From 24°41'11.11"N	To 24°41'18.06"N
2	Longitude	From 87°45'48.66"E	To 87°45'56.06"E

LAND DETAILS

		Khata no.	Plot no.
1	Bishanpur	25	349(P), 360(P)
		13	352(P), 353(P), 373(P), 374(P)
		22	361(P), 362(P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1091/M dated 08.07.2021.
2	CO	:	The CO, Hiranpur, vide letter no. 94, dated 26/02/2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1181/M, dated 17.07.2021 certified that 06 lease (5.21 acre, 5.15

41

			acre, 7.35 acre, 6.11 acre, 6.22 acre & 6.92 acre within 500 m radius and total area is 17.43 ha (more than 5 ha).
4	DFO Wildlife	:	DFO, Wildlife Hazaribagh vide letter no. 878, dated 13.05.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division, vide letter no. 742, dated 03.05.2021 certified that the distance of reserved / protected forest is 250 m from project site.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no 1412/M dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 13-03-2021
8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1394/M dated 10.08.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.117 ha Life of Mine - 1.968 ha
3	Waste Generation	:	5 years-14000.00Cu.M Life of Mine -14000.00Cu.M
4	Stripping Ratio	:	1: 0.02
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	52 AMSL to 58 AMSL
8	Ground Level Elevation	:	52 AMSL
9	Ultimate Working Depth	:	20 AMSL (32 bgl)
10	Water Table	:	8 AMSL (44 bgl)
11	Topography of Mine	:	Area represents a undulating topography

Production Details :

Year	Production of	Production of	Waste	Bench RL
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	stone (Cum)	stone (Tonne)	Generation (CuM)	Meters
1 st	47740.00	119350.00	14000.00	56mRL – 50mRL
2 nd	50540.00	126350.00	00	50 mRL- 44mRL
3 rd	55020.00	137550.00	00	44mRL- 32mRL
4 th	57680.00	144200.00	00	44mRL - 32mRL
5 th	57758.40	144396.00	00	38 mRL - 26 mRL
Total	268738.40	632250.00	14000.00	

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.117	1.968 (1.778 ha. RHW & 0.190 Ha Backfilled)
Road	0.013	0.003	0.003 (0.010 comes under quarry)
Proposed Dump	Nil	0.338	Nil
Safety Zone Plantation	Nil	0.506	0.506
Total	0.013	1.964	2.48
Unused Area	2.467	0.516	0.000

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.506ha	1270
2	Other Reclaimed Area	0.190ha	470
3	Haul /Approach Road	0.170 km	170

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 2x2 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 14000.00Cu.M. (Overburden) during the life of Mine which shall be proposed to dump (Average area- 2623.00 sq. m & average height 5.33 m) temporarily dump on the eastern side of the applied area. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 drain after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated 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 becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles 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 to Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emissionduring drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically toreduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollutioncheck will be done once in a year to keep the emissions from machineries andvehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust whiletransporting 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:

- 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.

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 14, 15, 16, 17 & 18.09.2021, 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 for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II.

6. Bishanpur Stone Deposit of M/s Dada Bhai Stone Works, Village : Bishanpur, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (2.47 Ha)

(Proposal No. : SIA/JH/MIN/ 66682/ 2021).

Project Category: B1 – Application for TOR

TOR Application for: Production capacity: 55,400 cu.m/annum 138500 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter		Details
1	Project Name	:	Bishanpur Stone Deposit
2	Lessee:	:	M/S Dada Bhai Stone Works (Partner- Md. Maniruzzaman), S/O Late Ikaramul Haque At P.O.-Jampur, District- Sahebganj, State – Jharkhand.
3	Lease Address	:	Village : Bishanpur, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand
4	Lease Area	:	Ha:2.47 Ha Acres:6.11 Acres
5	Type of Land	:	Non Forest – Rayati Land

6	Project Cost	:	Rs. 35 Lakhs
7	EMP Budget	:	Capital: 4.65 Lakhs Recurring: 4.17 Lakh / year
8	CSR / CER Budget	:	Rs. 0.70 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 508400Cu. M. Tonnes :1271000.00 tons
11	Mine Life	:	10 years
12	Man power	:	27
13	Water Requirement	:	12.40 KLD (Drinking:0.27KLD,Dust Suppression:5.50KLD, Plantation:6.60 KLD
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	Yes over area of 0.015ha
17	Nearest Water Body	:	Torai Nadi, 4.0 km
18	Nearest Habitation	:	Bishanpur, 0.40 km
19	Nearest Rail Station	:	Tilbhita Railway station, 7.90 km
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, 290.50 km
21	Nearest Forest	:	Protected Forest near Belpahari Village, 2.50 km Protected Forest near Dhapahari village, 2.20 km. Protected Forest near Maharo village, 4.60 km
22	Road & Highways	:	SH-18, 14.45 km. NH-34, 15.65 km.

CO-ORDINATES :

1	Latitude	From 24°41'08.54"N	To 24°41'13.56"N
2	Longitude	From 87°45'44.73"E	To87°45'54.95"E

LAND DETAILS

				Khata no.	Plot no.
1	Bishanpur			18	366(P)
				12	367(P), 368(P), 369, 381
				25	370, 379

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1088/M dated 08.07.2021.
2	CO	:	The CO, Hiranpur vide letter no. 95, dated 26.02.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1182/M, Pakur on 17.07.2021 certified that the 05 lease (5.21 acre, 5.15 acre, 6.11 acre, 6.22 acre & 6.92 acre) within 500 m radius and total area is 14.46 ha (more than 5 ha).
4	DFO Wild Life	:	DFO Wildlife Hazaribagh vide letter no. 736, dated 10.04.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division, vide letter no. 572 19.03.2021 certified that the certified that the distance of reserved / protected forest is more than 250 m from project site.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no. 1412/m dated 12/08/2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 13.03.2021
8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1393/M dated 10.08.2021

Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.372 ha Life of Mine - 1.863 ha
3	Waste Generation	:	5 years-14300.00Cu.M Life of Mine -14300.00Cu.M
4	Stripping Ratio	:	1: 0.01
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	48 AMSL to 58 AMSL
8	Ground Level Elevation	:	48 AMSL
9	Ultimate Working Depth	:	20 AMSL (28 bgl)
10	Water Table	:	8 AMSL (40 bgl)

11	Topography of Mine	:	Area represents a undulating topography
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Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Meters
1 st	42600.00	106500.00	14300.00	53mRL - 44mRL
2 nd	46600.00	116500.00	00	50 - 38 mRL
3 rd	53000.00	132500.00	00	44- 38 mRL
4 th	55300.00	138250.00	00	44mRL - 32mRL
5 th	55400.00	138500.00	00	38 mRL - 26 mRL
Total	252900.00	632250.00	14300.00	

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.372	1.863 (0.239 ha area shall be backfilled & 1.624 ha RWH)
Road	0.021	0.003	0.003 (0.018 comes under quarry)
Proposed Dump	Nil	0.374	Nil
Proposed Crusher	Nil	0.015	Nil
Safety Zone Plantation	Nil	0.603	0.603
Total	0.021	2.367	2.47
Unused Area	2.449	0.103	0.000

ENVIRONMENT MANAGEMENT

Green Belt Development :

SL	LOCATION	:	Area/Length	No of Trees
1	Safety Zone	:	0.603 ha	1500
2	Other Reclaimed Area	:	0.239 ha	600
3	Haul /Approach Road	:	0.100 km	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

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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 14300.00Cu.M. (Overburden) during the life of Mine which shall be proposed to dump (Average area- 2775.50 sq. m & average height 5.15 m) temporarily dump on the eastern side of the applied area. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 etc 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.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- The Boundary Pillars of the proposed mine lease area will be maintained properly.
- One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- 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.

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 on 14, 15, 16, 17 & 18.09.2021, 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 for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II.

- Dhowadangal Stone Deposit Project of Md. Najimuddin, Village : Dhowadangal, Thana : Maheshpur, Dist. : Pakur, Jharkhand (1.42 Ha).

(Proposal No. : SIA/JH/MIN/ 225168/2021)

Project Category : B2 – Application for Environment Clearance
EC Application for: Production capacity: 33,768 cu.m/annum or 84,420.00 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter	Details
1	Project Name	: Dhowadangal Stone Deposit
2	Lessee:	: M/s Md. Najimuddin, S/o Late Tahiruddin , At P.O.- Kashimnagar, District– Birbhum , State – West Bengal.
3	Lease Address	: Village – Dhowadangal, Thana- Maheshpur, District–

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			Pakur, Jharkhand	
4	Lease Area	:	Ha:1.42 ha	Acres:3.50 Acre
5	Type of Land	:	Non Forest – Raiyati Land	
6	Project Cost	:	Rs. 25 Lakhs	
7	EMP Budget	:	Capital: 2.545Lakhs	Recurring: 4.17Lakh / year
8	CSR / CER Budget	:	Rs. 0.50 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.:337400.0Cu. M.	Tonnes:8,43,500 tons
11	Mine Life	:	10.45 or 10.50 years	
12	Man power	:	20	
13	Water Requirement	:	7.0 KLD (Drinking:0.20KLD,Dust Suppression:3.15KLD, Plantation:3.63KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	Nil	
16	Crusher	:	No crusher	
17	Nearest Water Body	:	Torai Nadi, 9.10 km	
18	Nearest Habitation	:	Dhowadangal, 0.15km	
19	Nearest Rail Station	:	Pakur Railway station, 14.60 km	
20	Nearest Air Port	:	Birsamunda Airport, Ranchi, 281.40 km	
21	Nearest Forest	:	Protected Forest near Belpahari Village, 6.20 km Protected Forest near Dhangora Pahar, 5.65 km Protected Forest near Garopahari Village, 7.50 km	
22	Road & Highways	:	SH-18, 13.45 km. SH-7, 15.35 km.	

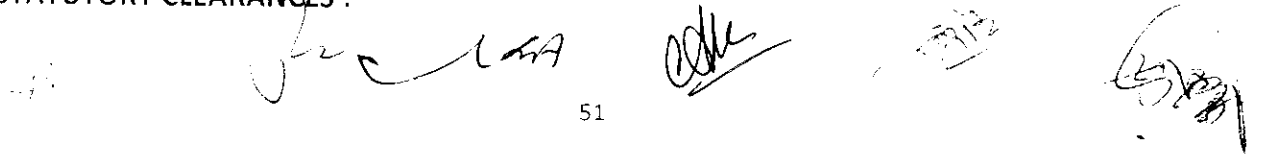
CO-ORDINATES :

1	Latitude		From 24°34'59.70"N	To 24°35'03.83"N
2	Longitude		From 87°43'19.90"E	To 87°43'26.30"E

LAND DETAILS :

		Khata no	Plot no
1	Dhowadangal	12	554, 556
		13	555

STATUTORY CLEARANCES :



1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 978/M dated 26.06.2021
2	CO	:	The CO, Maheshpur vide letter no. 182, dated 08.03.2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S. Khatiyana Register II.
3	DMO	:	DMO, Pakur vide memo no. 1043/M, dated 03.07.2021 certified that the 02 lease (3.47 acre & 3.71 acre) within 500 m radius from proposed project site and total area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. on 09.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 328, Pakur on 17.02.2021 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. 1412/M, dated 12.08.21 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 09-03-2021
8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1359/M dated 04.08.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-0.745 ha Life of Mine -- 1.074ha
3	Waste Generation	:	5 years-9100.00Cu.M Life of Mine -9100.00Cu.M
4	Stripping Ratio	:	1: 0.08
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	128 AMSL to 130 AMSL
8	Ground Level Elevation	:	128 AMSL
9	Ultimate	:	100 AMSL (28 bgl)

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	Working Depth	:	
10	Water Table	:	80 AMSL (48 bgl)
11	Topography of Mine	:	Area represents an undulating topography

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Meters
1 st	26600.00	66500.00	7140.00	128 mRL - 124 mRL
2 nd	28000.00	70000.00	0.0	130 - 118 mRL
3 rd	30940.00	77350.00	0.0	124- 118 mRL
4 th	33740.00	84350.00	1960.00	118 mRL - 112 mRL
5 th	33768.00	84420.00	0.0	112 - 100 mRL
Total	153048.00	624880.00	9100.00	

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.745	1.074 (0.121 ha area shall be backfilled & 0.953 ha RWH)
Road	0.013	0.003	0.003 (0.010 comes under quarry)
Proposed Dump	Nil	0.228	Nil
Safety Zone Plantation	Nil	0.343	0.343
Total	0.013	1.319	1.42
Unused Area	1.407	0.101	0.000

**ENVIRONMENT MANAGEMENT
Green Belt Development**

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.343ha	860
2	Other	0.208 ha	300

	Reclaimed Area			
3	Haul /Approach Road	:	0.05 km	50

- 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 2x2 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 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

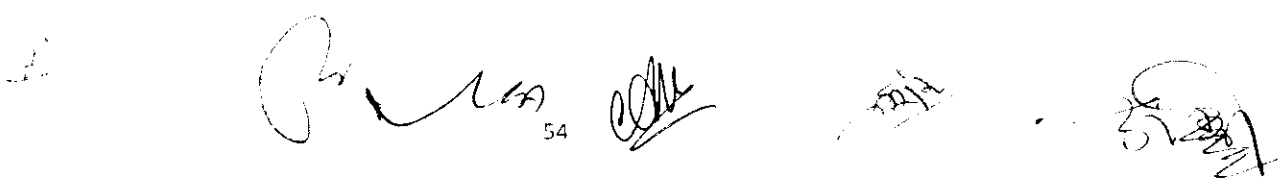
- Waste Generation will be 9100.00Cu.M. during the life of Mine. Proposed waste shall be temporarily dump on eastern side. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 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.

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 Dhowadangal Stone Deposit Project of Md. Najimuddin, Village : Dhowadangal, Thana : Maheshpur, Dist. : Pakur, Jharkhand (1.42 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

8. Basmata Stone Deposit of M/s New Muskan Stone Works, Village : Basmata, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.67 Ha)

(Proposal No. : SIA/JH/MIN/67037/2021)

Project Category : B1 – Application for TOR
 EC Application for: Production capacity: 45,096 Cu.M. / year i.e. 112740.00 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details :

Sl	Parameter	Details
1	Project Name	: Basmata Stone Deposit
2	Lessee:	: M/s New Muskan Stone Works, Partner's- Sri Mahubul Shaikh & Others, S/o Late Almesh Shaikh, at Village & P.O. – Sitapahari, P.S. – Pakur, District – Pakur, State – Jharkhand
3	Lease Address	: Village – Basmata, P.S. – Pakur, District – Pakur, Jharkhand
4	Lease Area	: Ha: 2.67 ha Acres: 6.60 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 35 Lakhs
7	EMP Budget	: Capital: 6.94 Lakhs Capital: 6.94 Lakhs
8	CSR / CER Budget	: Rs. 0.70 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 451050 Cu. M. Tonnes: 1127625.0 Tonnes
11	Mine Life	: 10.35 or 10.50 years
12	Man power	: 30
13	Water Requirement	: 14.36 - 14.40 KLD (Drinking:0.30KLD,Dust Suppression:7.92KLD, Plantation:5.94KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: Nil
16	Crusher	: No crusher
17	Nearest Water Body	: -
18	Nearest Habitation	: Chengadanga 0.60 km
19	Nearest Rail Station	: Nagarnabi Railway station, approx2.0 km
20	Nearest Air Port	: Birsa Munda Airport, Ranchi approx.292.40 km
21	Nearest Forest	: Protected Forest, near Mohanpur village Approx. 2.5 km in W direction. Protected Forest, near Dhangora Pahar Approx. 9.5 km in NW direction.
22	Road & Highways	: SH-7 Approx. 4.50 km. in SE direction NH-34 Approx. 12.30 km. in NE direction

CO-ORDINATES

1	Latitude	From 24°34'53.40"N	To 24°35'00.10"N
2	Longitude	From 87°50'56.58"E	To 87°51'06.35"E

LAND DETAILS :

		Khata no.	Plot no.
1.	Basmata	02	277, 307, 340(P),311,343,346/537,342,343/538
		30	306,341/(P)
		24	312,314,315,313,308
		29	279
		21	345
		12	316,336,334,335,337
		06	274, 275
		03	346

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 728/M dated 10.06.2021.
2	CO	:	The CO, Pakur vide letter no. 391 on 18.03.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 756/M dated 15.06.19 certified that 09 lease (7.43 acre, 4.60 acre, 6.37 acre, 4.06 acre, 4.42 acre, 4.095 acre, 5.44 acre, 4.95 acre & 3.13 acre) within 500 m radius from proposed project site. Total area is 18.006 Ha.
4	DFO Wild Life	:	DFO Wildlife Hazaribag Division vide letter no. 791, dated 13.05.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 464 dated 03.03.2021 certified that the distance of reserved / protected forest is more than 250 m from project site.

6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no 378/M dated 21/06/2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 24-02-2021
8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1164/M, Pakur dated 16.07.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-0.915 ha Life of Mine - 1.841 ha
3	Waste Generation	:	5 years-11040.00Cu.M Life of Mine -11040.0 Cu.M
4	Stripping Ratio	:	1: 0.05
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	38 AMSL to 40 AMSL
8	Ground Level Elevation	:	38 AMSL
9	Ultimate Working Depth	:	15 AMSL (23 bgl)
10	Water Table	:	10 AMSL (28 bgl)
11	Topography of Mine	:	Area represents a flat topography

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Benches Meters
1 st	37200.0	93000.0	6120	40 mRL - 33 mRL
2 nd	40440.0	101100.0	Nil	33 - 21 mRL
3 rd	42000.0	105000.0	4920	40 mRL- 33 mRL
4 th	45096.0	112740.0	Nil	33 mRL - 21 mRL
5 th	45096.0	112740.0	Nil	27 mRL-15 mRL

Total	209832.0	524580.0	11040.0	
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Land Use :

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
Quarry	Nil	0.915	1.841 (1.64 ha RWH & 0.201 ha backfilled)
Road	0.014	0.003	0.003 (0.011 comes under quarry)
Proposed Dump	Nil	0.278	Nil(waste dump to be removed & backfilled)
Plantation	Nil	0.826	0.826
Total	0.014	2.022	2.670
Unused Area	2.656	0.648	0.0
Lease Hold Area	2.67	2.67	2.67

ENVIRONMENT MANAGEMENT

Green Belt Development :

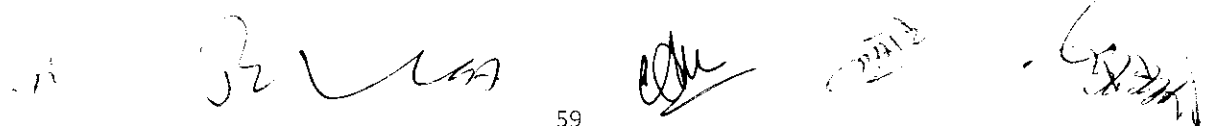
SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.826ha	2070
2	Backfilled Area	:	0.201 ha	500
3	Haul /Approach Road	:	0.400 km	400

- 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 2x3 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 11040.00 Cu.M. during the life of Mine. Proposed waste shall be temporarily dump on eastern side. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 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 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.

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- 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.

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 14, 15, 16, 17 & 18.09.2021, 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 for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II.

9. Murgadanga Stone Deposit of M/s Maa Vaishnavi Enterprises, Village : Murgadanga, Thana : Hiranpur, Dist. : Pakur, Jharkhand (2.52 Ha).

(Proposal No. : SIA/JH/MIN/ 67045/2021)

Project Category: B1 – Application for TOR

EC Application for: Production capacity: 44,660 cum/annum or 111650.00 TPA of stone

Name of the consultant : P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter	:	Details
1	Project Name	:	Murgadanga Stone Deposit
2	Lessee:	:	M/s MaaVaishnavi Enterprises Prop.: Sri. Sunil Kumar Sinha & others (Partners) S/o Sri. Banarash Prasad, At Vill – RasulpurDahla, P.O.& P.S.- Sahebganj, District– Sahebganj,Jharkhand.
3	Lease Address	:	Village : Murgadanga, Thana : Hiranpur, Dist. : Pakur, Jharkhand
4	Lease Area	:	Ha: 2.52 ha. Acres: 6.22 Acres
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	35 Lakhs
7	EMP Budget	:	Capital: 5.48 Lakhs Capital: 4.17 Lakhs
8	CSR / CER Budget	:	Rs. 0.70 Lakhs
9	New or Expansion	:	New

10	Mineable Reserves	:	Cu.M.: 447590 Cu. M.	Tonnes: 11,18,973.0 Tones
11	Mine Life	:	10 years	
12	Man power	:	23	
13	Water Requirement	:	12.87 ~ 13.0 KLD (Drinking: 0.25 KLD, Dust Suppression: 6.2 KLD, Plantation:6.42KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	Nil	
16	Crusher	:	No crusher	
17	Nearest Water Body	:	-	
18	Nearest Habitation	:	Murgadanga,0.30 km.	
19	Nearest Rail Station	:	Tilbhita Railway station, approx7.50 km.	
20	Nearest Air Port	:	BirsaMunda Airport, Ranchi approx.289.85 km.	
21	Nearest Forest	:	DhangoraPahar Protected Forest,Approx. 6.50 km. Protected Forest near Belpahari Village,Approx. 3.30 km.	
22	Road & Highways	:	SH-18, Approx. 15.0 km. in W direction. NH-34, Approx. 15.35 km. in ENE direction.	

CO-ORDINATES :

1	Latitude	From 24°40'54.14"N	To 24°41'02.98"N
2	Longitude	From 87°46'01.61"E	To 87°46'11.07"E

LAND DETAILS

		Khata No	Plot no
1	Murgadanga	68	145,146
		20	159,160
		72	149
		44	151
		41	150
		20	158
		106	152
		33	153
		15	155
		79	154(P)

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STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 753/M dated 14.06.2021.
2	CO	:	The CO, Hiranpur vide letter no. 97 on 26.02.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Pakur vide memo no. 779/M, dated 16.06.2021 certified that the 04 lease (2.00 Acre, 5.21 Acre, 5.35 Acre & 5.15 Acre) within 500 m radius total lease area is 9.68 ha (more than 5 ha).
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh, vide letter no. 782, dated 13.05.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 495, dated 06.03.2021 certified that the distance of reserved / protected forest is more than 250 m from the project site.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no. 878/M, dated 21.06.21 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 15-05-2021
8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1165/M dated 16.07.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-0.649ha Life of Mine - 1.853 ha
3	Waste Generation	:	5 years-11110.00Cu.M Life of Mine -11110.00Cu.M
4	Stripping Ratio	:	1: 0.06
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	50 AMSL to 51 AMSL
8	Ground Level Elevation	:	50 AMSL
9	Ultimate	:	26 AMSL (24 bgl)

	Working Depth		
10	Water Table	:	10 AMSL (40 bgl)
11	Topography of Mine	:	Area represents a flat topography.

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Meters
1 st	40700.00	101750.00	7700	50mRL – 44mRL
2 nd	42900.00	107250.00	Nil	44mRL – 32mRL
3 rd	43230.00	108075.00	Nil	38 mRL – 26mRL
4 th	44660.00	111650.00	3410	50mRL – 44mRL
5 th	44660.00	111650.00	Nil	50 mRL – 38 mRL
Total	216150.00	540375.00	11110.0	

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.649	1.853 (water reservoir for RWH)
Road	0.006	0.006	0.003 (0.003 comes under quarry)
Safety Zone Plantation	Nil	0.664	0.664
Total	0.006	1.319	2.520
Unused Area	2.514	1.201	0.000
Lease Hold Area	2.52	2.52	2.52

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.664ha	1660
2	Haul /Approach Road	0.48 km	480

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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

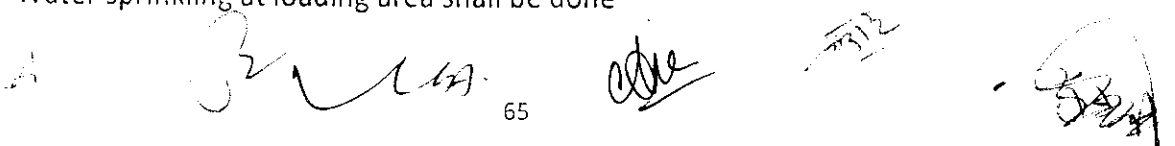
- Waste Generation will be 11110.0Cu.M during the life of Mine. Proposed dump shall be temporarily dump on the applied lease area. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 etc 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.
- If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- The Boundary Pillars of the proposed mine lease area will be maintained properly.
- One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- 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

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 14, 15, 16, 17 & 18.09.2021, 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 for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II.

10. Murgadanga Stone Deposit of M/s Sai Construction, Village : Murgadanga, Thana : Hiranandapur, Dist. : Pakur, Jharkhand (2.165 Ha)

(Proposal No. : SIA/JH/MIN/ 67048/ 2021)

Project Category : B1 – Application for TOR

EC Application for: Production capacity: 22446.67 cum/annum or 65095.33 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter	:	Details
1	Project Name	:	Murgadanga Stone Deposit
2	Lessee:	:	M/s Sai Construction

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			Prop.: Sri Bijay Pratap Singh, S/o Late Chandra Dev Singh Sri. Deshratna, S/o Sri Ajay Singh At Gali No. 7, Jai Prakash Nagar, District– Dhanbad, State – Jharkhand.	
3	Lease Address	:	Village – Murgadanga, Thana - Hiranpur, District – Pakur, Jharkhand	
4	Lease Area	:	Ha: 2.165 ha.	Acres: 5.35 Acre
5	Type of Land	:	Non Forest – Rayati Land	
6	Project Cost	:	30 Lakhs	
7	EMP Budget	:	Capital: 5.025 Lakhs	Capital: 4.17 Lakhs
8	CSR / CER Budget	:	Rs. 0.60 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.: 451050 Cu. M.	Tonnes: 1127625.0 Tones
11	Mine Life	:	10years	
12	Man power	:	23	
13	Water Requirement	:	13.10 KLD(Drinking:0.23KLD,Dust Suppression:6.57KLD, Plantation:6.30KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	Nil	
16	Crusher	:	No crusher	
17	Nearest Water Body	:	-	
18	Nearest Habitation	:	Chengadanga0.60 km.	
19	Nearest Rail Station	:	Tilbhita Railway station, approx6.90 km.	
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi approx. 291.25 km.	
21	Nearest Forest	:	Dhangora Pahar Protected Forest, Approx. 6.70 km. Protected Forest near Belpahari Village, Approx. 3.70 km.	
22	Road & Highways	:	SH-18, Approx. 15.60 km. in W direction. NH-34, Approx. 14.65 km. in ENE direction.	

CO-ORDINATES

1	Latitude		From 24°41'04.2756"N	To 24°41'09.1020"N
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2	Longitude	From 87°46'23.8584"E	To 87°46'32.1250"E
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LAND DETAILS :

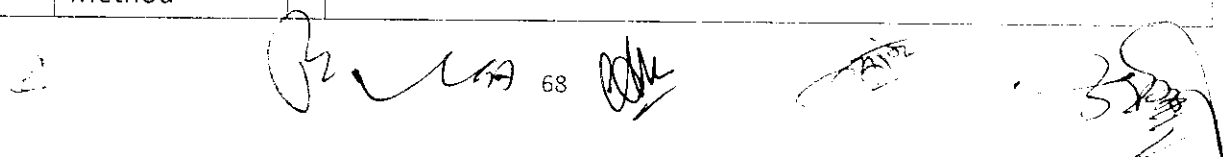
		Khata No.	Plot no.
1	Murgadanga	14	804(P),805,806,825(P),826(P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 566/M dated 10.04.2021.
2	CO	:	The CO, Hiranpur vide letter no. 526 dated 16.12.2020 has mentioned the plot nos. of the project site recorded as "Jangle Jhari" in R.S. Khatiyani & Register.
3	DMO	:	DMO, Pakur vide letter no. 780/M, dated 16.06.2021 certified that 04 lease (25.70 Acres or 10.40 ha) exists within 500 m radius from proposed project site & Total lease area is more than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 788, dated 13.05.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 366, dated 23.02.2021 certified that the Distance from the Nearest RF/PF from the project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no. 878/M, dated 21.06.21 has informed that this project is part of District Survey Report (DSR) at Pakur district.
7	Gram Sabha	:	On 15-01-2021
8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1113/M, Pakur dated 10.07.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
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2	Quarry Area	:	5 years-1.008 ha	Life of Mine – 1.628 ha
3	Waste Generation	:	5 years-15950.10Cu.M	Life of Mine –15950.10Cu.M
4	Stripping Ratio	:	1: 0.02	
5	Working Days	:	300	
6	Benches: size & No	:	6m x 6m	
7	Elevation of Mine	:	34 AMSL to 48 AMSL	
8	Ground Level Elevation	:	34 AMSL	
9	Ultimate Working Depth	:	29 AMSL (5 bgl)	
10	Water Table	:	22 AMSL (12 bgl)	
11	Topography of Mine	:	Area represents a small hillock.	

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Meters
1 st	22432.35	65053.82	6120	41mRL – 35mRL
2 nd	22437.10	65067.59	Nil	41mRL – 35mRL
3 rd	22437.10	65067.59	4920	35mRL
4 th	22443.75	65086.88	Nil	29mRL
5 th	22446.67	65095.33	Nil	29mRL
Total	112196.97	325371.21	11040.0	

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.008	1.628 (0.172 ha area shall be backfilled & 1.456 ha RWH)
Road	0.003	0.010	0.003
Waste Dump	Nil	0.384	Nil (waste dump to be removed & backfilled)
Safety Zone Plantation	Nil	0.534	0.534

Total	0.003	1.936	2.165
Unused Area	2.162	0.229	0.000
Lease Hold Area	2.165	2.165	2.165

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.534ha	1340
2	Backfilled Area	:	0.172 ha	430
3	Haul /Approach Road	:	0.33 km	330

- 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 15950.10Cu.M. (in-situ), 19937.63 cum (loose) and 10946.8 cum (compact) during the life of Mine. Dump area proposed for waste storage is 384 ha. which shall be temporarily dump on south eastern corner of the applied lease area. The Waste shall be removed which will be used in maintenance of mine road and villap road.

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 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.

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 14, 15, 16, 17 & 18.09.2021, 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 for consideration of SEIAA for undertaking detailed EIA / EMP study mentioned in Annexure II.

11. Pratappur & Mansinghpur Stone Mine of M/s Four Star Stone Works, Village : Pratappur & Mansinghpur, Thana : Hiranpur, Dist. : Pakur, Jharkhand (2.65 Ha)

(Proposal No. : SIA/JH/MIN/ 227373/ 2021).

Project Category : B2 – Application for Environment Clearance

EC Application for: Production capacity: 45,080 cum/annum or 130734.00 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter	:	Details
1	Project Name	:	Pratappur & Mansinghpur Stone Mine
2	Lessee:	:	M/s Four Star Stone Works Proprietor- Ahidur Rahman, S/o Abu Bakkar At Vill – Naya Anjana, P.S.- Prithvinagar, District– Pakur, State – Jharkhand.
3	Lease Address	:	Village : Pratappur & Mansinghpur, Thana : Hiranpur, Dist. : Pakur, Jharkhand
4	Lease Area	:	Ha : 2.65 ha Acres : 6.55 Acre
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 35 Lakhs
7	EMP Budget	:	Capital : 6.975 Lakhs Recurring : 4.17 Lakh / year
8	CSR / CER Budget	:	Rs. 0.70 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:455554.83 Cu. M. Tonnes : 13,21,109 tons
11	Mine Life	:	10.18 years
12	Man power	:	27
13	Water Requirement	:	13.80 KLD (Drinking:0.27 KLD, Dust Suppression : 7.34 KLD, Plantation : 6.20 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	Yes over area of 0.035 ha
17	Nearest Water Body	:	Torai Nadi, 3.25 km Kanli Nadi, 8.30 km

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18	Nearest Habitation	:	Mansinghpur, 0.50km
19	Nearest Rail Station	:	Kotalpukur Railway station, 7.05 km
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, 291.80 km
21	Nearest Forest	:	Protected Forest near Belpahari Village, 3.0 km Protected Forest near DhangoraPahar, 9.0 km Protected Forest near Bhandaro Village, 3.5 km
22	Road & Highways	:	SH-18, 15.25 km. NH-34, 14.75 km. NH-80, 14.70 km.

CO-ORDINATES

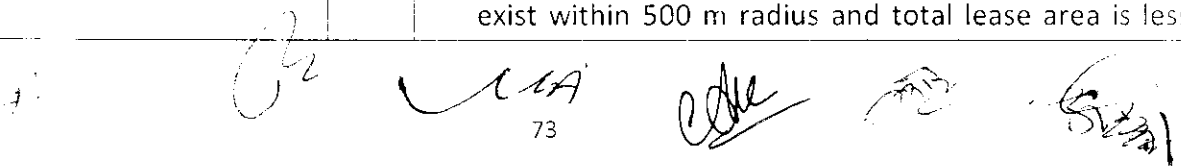
1	Latitude		From 24°41'43.99"N	To 24°41'53.46"N
2	Longitude		From 87°46'13.50"E	To 87°46'20.33"E

LAND DETAILS

			Khata no	Plot no
1	Pratappur & Mansinghpur		71	54(P)
			20	73, 72/1542
			8	595
			7	596
			6	618, 619, 597
			9	620, 621, 622, 623
			4	616, 617, 625, 594

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1732/M dated 28.09.2019.
2	CO	:	The CO, Hiranpur (Pakur) vide letter no. 157, dated 24.03.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1247/M, dated 08.08.2020 certified that the one lease (5.01 acre) exist within 500 m radius and total lease area is less



			than 5 ha.
4	DFO Wildlife	:	DFO Wildlife Hazaribagh, vide letter no. 1486, dated 30.07.2019 certified that the Udhwa Lake Bird Sanctuary is 30,200 m from project site and not within 10 km from National Park, Bio-Diversity & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 1659, dated 27.10.2016 certified that the distance from nearest forest is more than 250 m.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	:	On 26.07.2019
8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1505/M dated 27.08.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-0.855ha Life of Mine - 1.840 ha
3	Waste Generation	:	5 years-16826.30Cu.M Life of Mine -16826.30Cu.M
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300
6	Benches: size & No	:	5m x 5m
7	Elevation of Mine	:	49 AMSL to 51 AMSL
8	Ground Level Elevation	:	49 AMSL
9	Ultimate Working Depth	:	20 AMSL (29 bgl)
10	Water Table	:	11 AMSL (38 bgl)
11	Topography of Mine	:	Area represents a undulating topography

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Mete
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1 st	41514.48	123292.00	5505.76	51 mRL – 45 mRL
2 nd	44681.00	129576.00	4574.05	51 - 40 mRL
3 rd	45080.00	130734.00	2254.01	45- 40 mRL
4 th	44882.41	130159.00	2244.13	40 mRL - 35 mRL
5 th	44966.21	130402.00	2248.35	40 - 45 mRL
Total	221124.10	644163.00	16826.30	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	0.013	0.855	1.840 (0.316 ha area shall be backfilled & 1.524 ha RWH)
Road	0.009	0.047	0.006
Proposed Dump	Nil	0.295	Nil
Proposed Crusher	Nil	0.035	Nil
Safety Zone Plantation	Nil	0.801	0.801
Total	0.022	2.033	2.65
Unused Area	2.628	0.617	0.000
	2.65	2.65	2.65

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.801ha	2000
2	Other Reclaimed Area	:	0.316 ha	790
3	Haul /Approach Road	:	0.31 km	310

- 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 16826.30Cu.m. during the life of Mine. Proposed waste shall be temporarily dump on centre side of the applied area. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 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:

The text block contains several handwritten signatures and stamps. On the left, there is a small signature. In the center, there is a larger signature with a date '76' written below it. To the right, there are several more signatures and stamps, including one that appears to be a circular official stamp.

- 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.

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 Pratappur & Mansinghpur Stone Mine of M/s Four Star Stone Works, Village : Pratappur & Mansinghpur, Thana : Hiranpur, Dist. : Pakur, Jharkhand (2.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

12. Ganeshpur Stone Deposit of M/s R.N. Construction, Village : Ganeshpur, Thana : Ormanjhi, Dist. : Ranchi, Jharkhand (1.44 Ha)

(Proposal No. : SIA/JH/MIN/ 228155/ 2021).

Project Category : B2 – Application for Environment Clearance

EC Application for: Production capacity: 22222.50 cum/annum or 60000.75 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter	:	Details
1	Project Name	:	Ganeshpur Stone Deposit
2	Lessee:	:	M/s R. N. Construction Partner - Shri. Rajendra Prasad, S/o Mitnarayan Prasad At Vill & P.O– Surajpura, P.S.- Padma OP, District– Hazaribagh, State – Jharkhand.
3	Lease Address	:	Village – Ganeshpur, Thana- Ormanjhi, District- Ranchi, Jharkhand.

4	Lease Area	:	Ha:1.44 ha	Acres:3.56 Acre
5	Type of Land	:	Non Forest – Raiyati Land	
6	Project Cost	:	Rs. 25 Lakhs	
7	EMP Budget	:	Capital: 3.325Lakhs	Recurring: 4.17 Lakhs per year
8	CSR / CER Budget	:	Rs. 0.50 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.:111095Cu. M.	Tonnes:299956.50 MT
11	Mine Life	:	4.99 years or 5 years	
12	Man power	:	22	
13	Water Requirement	:	8.20 KLD (Drinking:0.22KLD,Dust Suppression:3.00 KLD, Plantation:4.35KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	Nil	
16	Crusher	:	No Crusher	
17	Nearest Water Body	:	Bhera Nadi, Approx. 0.30 km Getalsud Reservoir, Approx. 7.0 km	
18	Nearest Habitation	:	Ganeshpur, 0.70km	
19	Nearest Rail Station	:	Mael Railway station, approx. 10.40 km	
20	Nearest Air Port	:	Birsā Munda Airport, Ranchi, approx. 31.50 km	
21	Nearest Forest	:	Protected Forest near Ganeshpur Village, Approx. 0.20 km Open Sal Protected Forest, Approx. 3.0 km Protected Forest near Piprabanda village, Approx. 9.0 km	
22	Road & Highways	:	NH-33 at Approx. 3.80 km. NH-23, Approx. 10.0 km. SH-1, Approx. 13.50 km.	

CO-ORDINATES

1	Latitude		From 23°31'14.10"N	To 23°31'18.10"N
2	Longitude		From 85°32'22.00"E	To 85°32'31.20"E

LAND DETAILS :

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	Khata no	Plot No
1 Ganeshpur	13	399
	23	403
	28	404

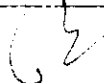
STATUTORY CLEARANCES :

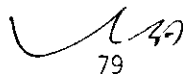
1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Ranchi vide letter no. 665/M dated 06.07.2021.
2	CO	:	The CO, Ranchi vide letter no. 33, dated 19.01.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Ranchi vide letter no. 679/M, dated 13.07.2021 certified that one lease exists within 500 m radius from proposed project site (11.56 Acres or 4.67 ha) & Total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Ranchi vide letter no. 776, dated 06.09.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO Ranchi vide letter no. 501, dated 08.02.2021 certified that the Distance from the nearest RF/PF from the Project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, Ranchi vide letter no. 782, dated 27.08.2021 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 22-01-2021
8	Mine Plan Approval	:	Vide letter no. 630/G dated 28/07/2021

Working Details :

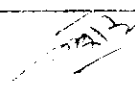
1	Mining Method	:	Opencast (OTFM) Method
2	Quarry Area	:	5 years-0.881ha Life of Mine - 1.881ha
3	Waste Generation	:	5 years-8695.00Cu.M Life of Mine -8695.00Cu.M
4	Stripping Ratio	:	1: 0.10

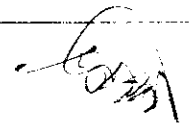
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 79







5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	572 AMSL to 580 AMSL
8	Ground Level Elevation		572 AMSL
9	Ultimate Working Depth	:	550 AMSL (22 bgl)
10	Water Table	:	540 AMSL (32 bgl)
11	Topography of Mine	:	Area represents hillock of stone

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Meters
1 st	22222.00	59999.40	6295.00	580 mRL - 574 mRL
2 nd	22222.50	60000.75	--	574 mRL - 568 mRL
3 rd	22220.00	59994.00	350	574 mRL - 562 mRL
4 th	22220.00	59994.00	--	568 mRL - 562 mRL
5 th	22210.50	59968.35	2050.00	556 mRL - 568 mRL
Total	111095.00	299956.50	8695.00	

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.881	1.881 (0.345 ha area shall be left as water reservoir for RWH)
Road	Nil	Nil	Nil
Waste Dump	Nil	Nil	Nil
Infrastructure	Nil	0.050	0.050
Safety Zone Plantation	Nil	0.510 (within safety zone)	0.510 (within safety zone)

21

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Total	Nil	1.441	1.441
Unused Area	1.441	0.000	0.000
Leasehold Area	1.441	1.441	1.441

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.510ha	1280
2	Haul /Approach Road	:	0.17 km	170

- 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.

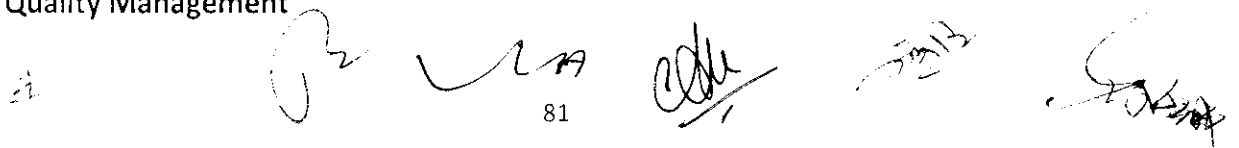
Solid Waste Management

- Waste Generation will be 8695.00Cu.m. during the life of Mine. Part of waste shall be removed which will be used in maintenance of mine road and village road.

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 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.

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 Ganeshpur Stone Deposit of M/s R.N. Construction, Village : Ganeshpur, Thana : Ormanjhi, Dist. : Ranchi, Jharkhand (1.44 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

13. Banki Brick Clay Mining Project of M/s H.M. Bricks, Village : Banki, Thana : Potka (Ghatshila), Dist. : East Singhbhum, Jharkhand (0.834 Ha).

(Proposal No. : SIA/JH/MIN/ 227847/ 2021).

Project Category : B2 – Application for Environment Clearance

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EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter	:	Details
1	Project Name	:	Banki Brick Clay Mining Project
2	Lessee:	:	M/s H. M. Bricks Sri Hira Lal Mandal S/o Shri Kalipada Mandal, PuranaSonari Near Shiv mandir, PO + PS- Sonari, District- East Singhbhum, State- Jharkhand
3	Lease Address	:	Village: Banki, Thana.- Potka (Ghatshila), District- East Singhbhum, Jharkhand.
4	Lease Area	:	Ha:0.834 ha Acres:2.06 Acre
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 12 Lakhs
7	EMP Budget	:	Capital: 3.565Lakhs Recurring: 3.27Lakh / year
8	CSR / CER Budget	:	Rs. 0.24 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:10452.58 Cu. M. Tonnes:13588.35 MT
11	Mine Life	:	8.7 Seasons
12	Man power	:	16
13	Water Requirement	:	7.60 KLD (Drinking:0.16KLD,Dust Suppression:4.15 KLD, Plantation:3.21KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	Nil
16	Crusher	:	No Crusher
17	Nearest Water Body	:	Gairaduba Nadi, Approx. 8.50 km Kharsothi Nadi, Approx. 3.50 km
18	Nearest Habitation	:	Banki, 0.50km
19	Nearest Rail Station	:	Ghatshila Railway Station, approx. 8.74 km
20	Nearest Air Port	:	BirsaMunda Airport, Ranchi, approx. 150.0 km
21	Nearest Forest	:	Protected Forest near Durigariya village, Approx. 6.0 km. Protected Forest near Haripur village, Approx. 7.80 km.
22	Road &	:	NH- 18, approx, 7.0 km.

	Highways		
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CO-ORDINATES

1	Latitude		From 22°36'03.77"N	To 22°36'07.25"N
2	Longitude		From 86°33'47.95"E	To 86°33'52.27"E

LAND DETAILS

1	Banki	:	Khata No.- 02	Plot No.-1501 (P) ,1502,1520 & 1521(P)
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STATUTORY CLEARANCES

1	LOI/Lease docs	:	The land argeement has been made on 03.08.2019.
2	CO	:	The CO, Ghatshila vide letter no. 696, date 28.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide memo no. 1294/M, dated 20.09.2019 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DCF, Dalma Elephant Project, Jamshedpur vide letter no. 920, dated 05.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO Jamshedpur Forest Division vide letter no. 2703, dated 22.08.2019 certified that the distance from the Nearest RF/PF from the Project site is more than 250 m.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of East Singhbhum district.
7	Gram Sabha	:	On 23-09-2019
8	Mine Plan Approval	:	Vide letter no. 618/G dated 21/10/2019

Working Details :

1	Mining Method	:	Open Cast manually method
2	Quarry Area	:	5 years-0.88ha Life of Mine - 1.46ha
3	Waste Generation	:	5 years-1790.26Cu.M Life of Mine -1790.26Cu.M
4	Stripping Ratio	:	1: 0.6
5	Working Days	:	150
6	Benches: size & No	:	1m x 1m
7	Elevation of	:	125 AMSL to126 AMSL

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	Mine	
8	Ground Level Elevation	125 AMSL
9	Ultimate Working Depth	: 124 AMSL (1 bgl)
10	Water Table	: 104 AMSL (21 bgl)
11	Topography of Mine	: Area represents flat topography

Production Details :

Year	Production Sub Soil in cum	Top Soil removable in cum
1 st	1200.00	1790.26
2 nd	1200.00	
3 rd	1200.00	
4 th	1200.00	
5 th	1200.00	
Total	6000.00	1790.26

Land Use :

Pattern of Utilization	Existing (acres)	Plan period (acres)	Remaining period of the life of mine (acres)	Conceptual stage (Acres)
Mining activities	Nil	0.88	0.58	1.46
Green belt/ Safety Zone	Nil	0.20	Nil	0.20
Rest House/other etc./ Mine road/ Top Soil Dump	Nil	0.40	Nil	0.40
Unused Area	2.06	0.58	0.0	0.0
Total	2.06	2.06	0.58	2.06

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.20ha	500
2	Haul /Approach Road	: 0.57 km	570

- 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

41

species such as timber & fruit bearing etc. will be done in first year of operation. Main work such as h/w, mortality replacement, protection and watering shall be undertaken in 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 1790.26Cu.m. (top soil) during the life of Mine. The top soil will be kept safely on the berm of mining site which will be spread over the mined out pit so that the fields can be used for agricultural activity.


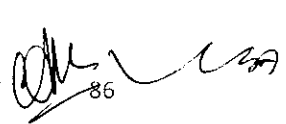

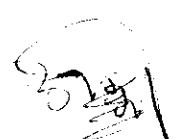
Water Quality Management

- 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 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.

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 Banki Brick Clay Mining Project of M/s H.M. Bricks, Village : Banki, Thana : Potka (Ghatshila), Dist. : East Singhbhum, Jharkhand (0.834 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

14. Kuliank Brick Earth Deposit of M/s S.K. Bricks, Village : Kuliank, Thana : Baharagora, Dist. : East Singhbhum, Jharkhand (0.445 Ha)

(Proposal No. : SIA/JH/MIN/ 227800/ 2021).

Project Category : B2 – Application for Environment Clearance

EC Application for: Production capacity: 1200.00 cum/season or 1560 MT/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter	Details
1	Project Name	: Kuliank Brick Earth Deposit
2	Lessee:	: M/s S. K. Bricks, Prop.- Sri Sabya Sachi Sahu, S/o Late Manoranjan Shaw at Champa Road, Parsudih, Near Radha Krishna Mandir, P.O & P.S.- Parsudih, District- East Singhbhum,

			State- Jharkhand	
3	Lease Address	:	Village – Kuliank, Thana.- Baharagora, District - East Singhbhum, Jharkhand	
4	Lease Area	:	Ha:0.445 ha	Acres:1.10 Acre
5	Type of Land	:	Non Forest – Raiyati Land	
6	Project Cost	:	Rs. 10 Lakhs	
7	EMP Budget	:	Capital: 3.06 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.20 Lakhs	
9	New or Expansion	:	New	
10	Mineral Reserves	:	Cu.M.: 5876.00 Cum	Tonnes: 7638.80 MT
11	Mine Life	:	4.89 seasons/year or 5 seasons/years	
12	Man power	:	11	
13	Water Requirement	:	6.60 KLD (Drinking:0.11 KLD, Dust Suppression: 3.85 KLD, Plantation: 2.64 KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	-	
16	Crusher	:	No Crusher	
17	Nearest Water Body	:	Subarnarekha River, Approx. 4.0 km	
18	Nearest Habitation	:	Kuliank, 0.80 km	
19	Nearest Rail Station	:	Kokpara Railway Station, approx. 21.0 km	
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, approx. 178.70 km	
21	Nearest Forest	:	Dense Mixed Jungle near Paharpura, Approx. 8.30 km NW direction. Dense Mixed Jungle near Jagitopa, Approx. 8.0 km SW direction. Dense Mixed Jungle near Pathandiha, Approx. 8.50 km NE direction. Dense Mixed Jungle near Baharagora, Approx. 8.50 km ENE direction.	
22	Road & Highways	:	NH- 33, approx, 4.25 km. NH-6, approx, 6.40 km.	

CO-ORDINATES

1

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88

3

4

1	Latitude	From 22°17'12.12"N	To 22°17'14.96"N
2	Longitude	From 86°39'52.71"E	To 86°39'54.48"E

LAND DETAILS

		Khata no	Plot no
1.	Kuliank	124	18
		129	25
		130	24

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The land argeement has been made on 30.09.2020
2	CO	:	The CO, Bahragora vide letter no. 142, dated 24.02.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyen.
3	DMO	:	DMO, East Singhbhum vide letter no. 1131/khanan on 06.09.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Dalma Elephant Project	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1266, dated 16.08.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 274, dated 06.02.2021 certified that the distance from the nearest RF/Pf is more than 250 m.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of East Singhbhum district.
7	Gram Sabha	:	On 09-09-2020
8	Mine Plan Approval	:	Vide letter no. 452/G on 05.03.2021

Working Details :

1	Mining Method	:	Open Cast manually method
2	Quarry Area	:	5 years-0.300 ha
			Life of Mine - 0.300 ha
3	Waste	:	5 years-No waste
			Life of Mine - No waste

	Generation		
4	Stripping Ratio	:	1: 0.0
5	Working Days	:	150
6	Benches: size & No	:	1.5m x 3m
7	Elevation of Mine	:	66 AMSL to 67 AMSL
8	Ground Level Elevation		66 AMSL
9	Ultimate Working Depth	:	64 AMSL (2 bgl)
10	Water Table	:	10 AMSL (56 bgl)
11	Topography of Mine	:	Area represents flat topography

Production Details

Year	Total excavation of brick earth in cum	Total excavation of brick earth
		MT=Cum x 1.3
1 st	1200.00	1560.00
2 nd	1200.00	1560.00
3 rd	1200.00	1560.00
4 th	1200.00	1560.00
5 th	1196.00	1554.80
Total	5996.00	7794.80

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.300	0.300
Infrastructure	Nil	-	-
Storage of casted bricks	Nil	Storage of casted bricks within quarry	Storage of casted bricks within quarry
Safety Zone Plantation	Nil	0.145	0.145
Proposed Kiln	Nil	Within lease area	Within lease area
Mine Road	Nil	-	-
Total	Nil	0.445	0.445
Unused Area	0.445	0.000	0.000

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ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.145 ha	360
2	Haul /Approach Road	:	0.52 km	520

- 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

- No waste will be generated during the 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 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.

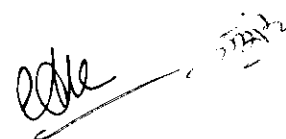
Air Quality Management

- 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

1

2







- All machineries and transport vehicles shall be properly maintained and pollution checked. 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.

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 Kuliank Brick Earth Deposit of M/s S.K. Bricks, Village : Kuliank, Thana : Baharagora, Dist. : East Singhbhum, Jharkhand (0.445 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

15. Mukrudih Brick Earth Mining Project of M/s Rahul Bricks, Village : Mukrudih, Thana : Boram, Dist. : East Singhbhum, Jharkhand (1.554 Ha)

(Proposal No. : SIA/JH/MIN/ 228500/ 2021).

Project Category : B2 – Application for Environment Clearance
 EC Application for: Production capacity: 1740.64 cum/season or 2262.83 MT/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter		Details
1	Project Name	:	Mukrudih Bricks Earth Deposit
2	Lessee:	:	M/S Rahul Bricks Prop. - Sri Bhaktranjan Mahto , S/o Gohiram Mahto H.No – 224, New Kumrum Basti, NH-33, P.O – MGM Jamshedpur, Dist – East Singhbhum, Jharkhand, 831018
3	Lease Address	:	Village – Mukrudih, Thana.- Boram, District - East Singhbhum, Jharkhand
4	Lease Area	:	Ha: 1.554 ha Acres: 3.84 Acre
5	Type of Land	:	Non Forest Land
6	Project Cost	:	Rs. 12 Lakhs
7	EMP Budget	:	Capital: 1.82 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.24 Lakhs
9	New or Expansion	:	New
10	Mineral Reserves	:	Cu.M.: 22114.90 Cum Tonnes: 28749.37 MT
11	Mine Life	:	13.00 seasons/years
12	Man power	:	21
13	Water Requirement	:	4.66 ~ 4.70 KLD (Drinking:0.21 KLD, Dust Suppression: 1.87 KLD, Plantation: 2.58 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	Nil
16	Crusher	:	No Crusher
17	Nearest Water Body	:	Sona Nadi, Approx. 2.0 km Nangsai Nadi, Approx. 1.5 km
18	Nearest Habitation	:	Mukrudih, 0.20 km
19	Nearest Rail Station	:	Biramdi Railway Station, approx. 16.60 km
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, approx. 110.50 km
21	Nearest Forest	:	Dalma Wildlife Sanctuary, Approx. 9.20 km SSW direction. Kherua Protected Forest, Approx. 8.70 km S direction. Dense Mixed Jungle, Approx. 8.80 km SSW direction. Barabhum Reserve Forest, Approx. 7.00 Km NE

			direction. Hatiadih Protected Forest, Approx 9.00 Km W direction.
22	Road & Highways	:	SH-4, approx, 5.0 km

CO-ORDINATES

1	Latitude		From 22°59'07.07"N	To 22°59'11.40"N
2	Longitude		From 86°20'45.72"E	To 86°20'52.16"E

LAND DETAILS

1	Mukrudih	:	Khata No.- 78	Plot No.- 950, 951, 952
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STATUTORY CLEARANCES

1	LOI/Lease docs	:	The land agreement has been made on 23.03.2018.
2	CO	:	The CO, Boram vide letter no. 336, Dated 30.07.2021 has mentioned the plot no. of the project is recorded as "Jangle Jhari" in Khatiyani.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide letter no. 1628/khanan dated 18.08.2018 certified that no lease exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.
4	DFO Dalma Elephant Project	:	Deputy Conservation of Forest & Field Officer, Elephant Project, Jamshedpur vide letter no. 359, dated 02.09.2021 certified that the National Park & Sanctuary is not within 10 km from project site & proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 1705 dated 06.08.2021 certified that the distance of reserved / protected forest from the Project site is more than 250 m.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of East Singhbhum district.
7	Gram Sabha	:	On 21-05-2018
8	Mine Plan Approval	:	Vide letter no. 188/G on 25.07.2018

Working Details :

1	Mining Method	:	Open Cast manually method	
2	Quarry Area	:	5 years-0.435 ha	Life of Mine - 0.435 ha

3	Waste Generation	:	5 years–No waste	Life of Mine – No waste
4	Stripping Ratio	:	1: 0.0	
5	Working Days	:	150	
6	Benches: size & No	:	1.5m x 3m	
7	Elevation of Mine	:	250 AMSL to 252 AMSL	
8	Ground Level Elevation	:	250 AMSL	
9	Ultimate Working Depth	:	248.5 AMSL (1.5 bgl)	
10	Water Table	:	237 AMSL (13 bgl)	
11	Topography of Mine	:	Area represents flat topography	

Production Details

Year	Production brick earth in cum/year
1st year/season	1740.64
2nd year/season	1740.48
3rd year/season	1739.88
4th year/season	1739.10
5th year/season	1740.00
Total	8700.10

Land Use

Pattern of Utilization	Existing (Ha.)	At the end of plan period (Ha.)
Quarrying	Nil	0.435
Infrastructure (Proposed Kiln)	Nil	0.150
Storage of Bricks	Nil	0.050
Plantation at safety zone	Nil	0.325
Village Road Barrier	Nil	0.122
Unused Area	1.554	0.472
Total	1.554	1.554

ENVIRONMENT MANAGEMENT
Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.325 ha	820
2	Haul /Approach Road	: 0.040 km	40

- 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

- No waste will be generated during the 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 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 Retention 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.

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 Mukrudih Brick Earth Mining Project of M/s Rahul Bricks, Village : Mukrudih, Thana : Boram, Dist. : East Singhbhum, Jharkhand (1.554 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

16. Kusumbha Stone Deposit of Shri Anirudh Singh & Shri Binod Kumar Kushwaha, Village : Kusumbha, Thana : Bishungarh, Dist. : Hazaribag, Jharkhand (1.234 Ha)

(Proposal No. : SIA/JH/MIN/ 228602/ 2021).

Project Category : B2 – Application for Environment Clearance

EC Application for: Production capacity: 22222.22 cum/annum or 60000.00 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

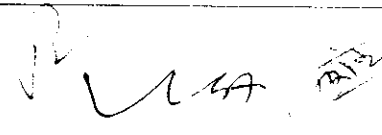
Project & Location Details :

2

Sl	Parameter		Details
1	Project Name	:	Kusumbha Stone Deposit
2	Lessee:	:	Shri Anirudh Singh S/O Sri Prafullo Singh, Vill- Sarauni Khurd, P.O Silwar, P.S- Muffasil, Dist- Hazaribag & Shri Binod Kumar Kushwaha S/O- Pannu Prasad Kushwaha, Pandit Road, Hurhuru, P.S- Sadar, Dist- Hazaribag. Jharkhand.
3	Lease Address	:	Village – Kusumbha, Thana - Bishungarh, District – Hazaribagh, Jharkhand
4	Lease Area	:	Ha: 1.234 ha Acres: 3.05 Acre
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 20 Lakhs
7	EMP Budget	:	Capital: 9.216 Lakhs Recurring: 4.17 Lakh / year
8	CSR / CER Budget	:	Rs. 0.40 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 167475.00 Cu. M. Tonnes: 452182.50 tons
11	Mine Life	:	9 years
12	Man power	:	21
13	Water Requirement	:	20.66 ~ 20.70 KLD (Drinking:0.21 KLD, Dust Suppression: 14.36 KLD, Plantation: 6.09 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	Nil
16	Crusher	:	No crusher
17	Nearest Water Body	:	Konar reservoir, 2.0 km
18	Nearest Habitation	:	Kusumbha, 1.0 km
19	Nearest Rail Station	:	Gumia Railway station, Approx. 1.46 km.
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, 85.52 km
21	Nearest Forest	:	Alkopi Protected Forest, Approx. 7.0 km. Bukna Protected Forest, Approx. 9.20 km. Bhelwara Protected Forest, Approx. 9.5 km. Protected Forest near Simariya village, 8.5 km. Dense Mixed Jungle near Tolniadah village, Approx.

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		4.0 km. Dense Mixed Jungle near Kari Khurd, Approx. 9.0 km.
22	Road & Highways	: NH- 100, Approx. 5.32 km.

CO-ORDINATES :

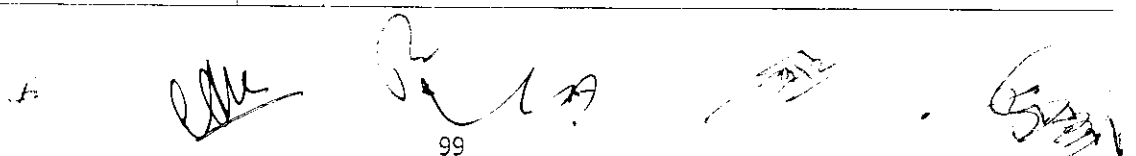
1	Latitude	From 23°58'38.48"N	To 23°58'44.00"N
2	Longitude	From 85°45'21.18"E	To 85°45'26.01"E

LAND DETAILS :

1	Kusumbha	: Khata no.- 31	Plot No.- 325P, 327P and 328
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STATUTORY CLEARANCES :

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Hazaribag vide letter no. 844/M dated 02.11.2020.
2	CO	: The CO, Bishungarh vide letter no. 103, dated 17.03.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon
3	DMO	: DMO, Hazaribag vide letter no. 23/Khannan dated 08.01.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribag vide letter no. 1097 dated 19.06.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Hazaribag East Forest Division vide letter no. 1774, dated 06.08.2020 certified that the distance of reserved / protected forest from the Project site is more than 250 m.
6	DSR	: The DC, Hazaribag vide letter no. 565/M dated 06.09.2021 has informed that this project is part of District Survey Report (DSR) at Hazaribag district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 26-02-2020
8	Mine Plan Approval	: Vide Memo no. 208/G on 27.11.2020



Working Details :

1	Mining Method	:	Opencast Other than Fully Mechanized (OTFM) method
2	Quarry Area	:	5 years-0.775 ha
3	Waste Generation	:	5 years- 10870.00 Cu.M
4	Stripping Ratio	:	1: 0.37
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	430 AMSL to 435 AMSL
8	Ground Level Elevation	:	430 AMSL
9	Ultimate Working Depth	:	410 AMSL (20 bgl)
10	Water Table	:	405 AMSL (25 bgl)
11	Topography of Mine	:	Area represents a small hillock

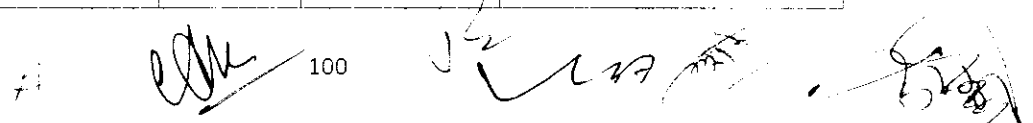
Production Details :

Year	Stone (Tonnes)	O/B Waste (cum)	Total Waste (cum)
1 st Year	50000.00	5020.00	5020.00
2 nd Year	50000.00	0.00	0.00
3 rd Year	50000.00	5625.00	5625.00
4 th Year	50000.00	0.00	0.00
5 th Year	60000.00	225.00	225.00
Total	260000.00	10870.00	10870.00

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period	Conceptual Plan
Excavation	Nil	0.775	0.833 (0.833 ha area shall be converted as water reservoir)
Waste Dump	Nil	Nil	Nil
Road	Nil	Nil	Nil

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Infrastructure	Nil	0.058	Nil
Plantation (Green belt)	Nil	0.401	0.401
Lease Hold Area	1.234	1.234	1.234

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.401 ha	1000
2	Haul /Approach Road	:	2.06 km	1030

- 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 10870.00 Cu.M. during the life of Mine. All the waste shall be utilized for making the village road, maintenance of haulage road. As such, no area has been selected for waste dumping.

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 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 shall 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.

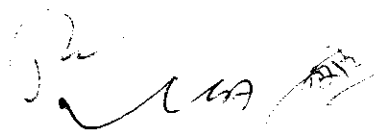
Based on the presentation made and information provided, the Committee in the report of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kusumbha Stone Deposit of Shri Anirudh Singh & Son Binod Kumar Kushwaha, Village : Kusumbha, Thana : Bishungarh, Dist. : Hazaribag, Jharkhand (1.234 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

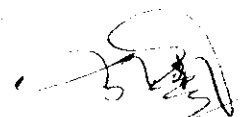
17. Talpahari Stone Mine of M/s Jishan Stone Works, Village : Talpahari, Thana : Hiranpur, Dist. : Pakur, Jharkhand (1.05 Ha)

(Proposal No. : SIA/JH/MIN/ 228779/ 2021).

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Project Category: B2 – Application for Environment Clearance

EC Application for: Production capacity: 10,283 cu.m/annum or 27,764.00 TPA of stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 15.09.2021

Project & Location Details:

Sl	Parameter		Details
1	Project Name	:	Talpahari Stone Mine
2	Lessee:	:	M/s Jishan Stone Works Prop.- Md. JiyaulRahman S/o Md. ZakimShaikh Vill. & Panchayat – Jay Kishtopur, P.O.- Manirampur, P.S- Pakur, District– Pakur, State – Jharkhand.
3	Lease Address	:	Village : Talpahari, Thana : Hiranpur, Dist. : Pakur, Jharkhand
4	Lease Area	:	Ha:1.05 ha Acres:2.60 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	Rs. 20 Lakhs
7	EMP Budget	:	Capital: 3.70 Lakhs Recurring: 4.17 Lakh / year
8	CSR / CER Budget	:	Rs. 0.40 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M. :75126 Cu. M. Tonnes : 2,02,840 tons
11	Mine Life	:	10 years
12	Man power	:	19
13	Water Requirement	:	9.0 KLD (Drinking : 0.19 KLD, Dust Suppression : 4.45 KLD, Plantation : 4.05 KLD
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	01
16	Crusher	:	No crusher
17	Nearest Water Body	:	Torai Nadi, 8.16 km
18	Nearest Habitation	:	Talpahari, 1.05km
19	Nearest Rail Station	:	Tilbhita Railway station, 7.20 km
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi approx 292.30 km

21	Nearest Forest	:	Protected Forest near Belpahari Village, 6.20 km Protected Forest near Dhatapatra Village, 9.30 km
22	Road & Highways	:	NH-34, 14.50 km.

CO-ORDINATES :

1	Latitude	From 24°41'48.52"N	To 24°41'29.69"N
2	Longitude	From 87°46'26.59"E	To 87°46'31.29"E

LAND DETAILS :

1.	Talbahari	Khata no	Plot No
		08	1231, 1232, 1233, 1234
		21	1226(P), 1227(P), 1228, 1230

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 469/M dated 23.03.2021.
2	CO	:	The CO, Hiranpur vide letter no. 220 dated 06.06.2020 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide letter no. 1060/M, dated 06.03.2021 certified that the one lease (4.20 acre) within 500 m radius and total lease area is less than 5 ha.
4	DFO Wildlife	:	DFO, Wildlife Hazaribagh, vide letter no. 1510, dated 09.09.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division, vide letter no. 311 dated 25.02.2021 certified that distance of notified site is more than 250 m from proposed project site
6	DSR	:	The DC-cum-District Magistrate, Pakur Vide Letter no. 1412/M, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 20-07-2020

8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1450/M dated 19.08.2021
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Working Details :

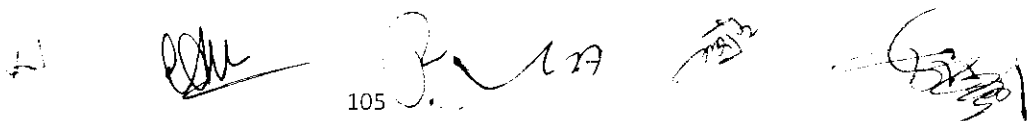
1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-0.45 ha Life of Mine – 0.56 ha
3	Waste Generation	:	5 years-3680.00Cu.M Life of Mine –3680.00Cu.M
4	Stripping Ratio	:	1: 0.08
5	Working Days	:	300
6	Benches: size & No	:	3m x 3m
7	Elevation of Mine	:	44 AMSL
8	Ground Level Elevation	:	44 AMSL
9	Ultimate Working Depth	:	20 AMSL (24 bgl)
10	Water Table	:	15 AMSL (29 bgl)
11	Topography of Mine	:	Area represents a flat topography
12	Explosive Requirement	:	125 gms (Cartridge)

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)
1 st	10132.00	27356	1400.00
2 nd	10055.00	27148	0.0
3 rd	9872.00	26655	0.0
4 th	10283.00	27764	2280.00
5 th	10237.00	27640	0.0
Total	50579.00	136563.00	3680.00

Land Use :

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	End of Mine (Ha)	Status of land at the end life of the Mine
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Mining Activities	0.09	0.45	0.56	Water Reservoir
Road	0.00	0.01	0.01	Green Belt
Parapet Wall	0.00	0.03	0.03	Parapet Wall
Garland Drain	0.00	0.07	0.07	Green Belt
Green Belt/Safety Zone	0.00	0.38	0.38	Green Belt
Dump	0.00	0.03	0.00	Removed and Reclaimed
Utilized	0.00	0.97	1.05	-
Unutilized	0.96	0.08	0.00	-
Total Lease hold Area	1.05	1.05	1.05	-

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.380 ha	950
2	Haul /Approach Road	:	0.40 km	400

- 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 3680.00 Cu.M. during the life of Mine. Proposed waste shall be temporarily dumped on SW side. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 goodsanitation 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

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 date 12.12.18 decided that the proposal for Talpahari Stone Mine of M/s Jishan Stone Works, Village : Talpahari, Thana : Hiranpur, Dist. : Pakur, Jharkhand (1.05 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.


18. Proposed G+7 storied Residential Colony of M/s Rungta Mines Limited, Village : Banksai, Thana : Rajnagar, Tehsil : Rajnagar, Dist. : Saraikela Kharsawan, Jharkhand
(Proposal No. : SIA/JH/MIS/ 217392/ 2021).

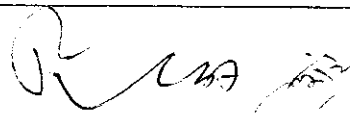
Project Category : 8(a) Category – Application for Environment Clearance
EC Application for : Residential buildings: Total built-up area of 51248 m²

Name of the consultant: P & M SOLUTION, Noida

Project & Location Details:

Parameters	Description
Plot Area	25891 m ² (approx. 6.40 acre)
Project Cost	INR 101 Crores
Built-up Area	51248 m ²
Green Area	6368 m ² (@24.59 % of plot area)
Population	1691
Water Requirement	226 KLD
Fresh Water Requirement	142 KLD
Wastewater Generation	176 KLD
STP Capacity	200 KLD
Total Municipal Waste	797 kg/day
Power Requirement	1617 kVA (Jharkhand State Electricity board / Chaliyama Steel Plant)
DG Sets	1 no. of DG set of Total 250 kVA
RWH Pits	10 no.
Parking	765 no.

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Connecting road	Project site is well connected with road. This road connects site Jamshedpur-Chaibasa Road.
National Highway	NH-220 0.17 km East
Nearest Railway Station	Chaibasa railway station, 8.0 km, SW
Airport	Sonari Airport Jamshedpur, (38.38 km, NE)
Nearest Hospitals	Sadar Hospital Chaibasa (9.93 km, SW)
Nearest Water Bodies	Chandmari lake Dam (11.37 km, W) Kachahari talaab (9.96 km, SW) Kharkai River(0.30, W)

Area Statement :

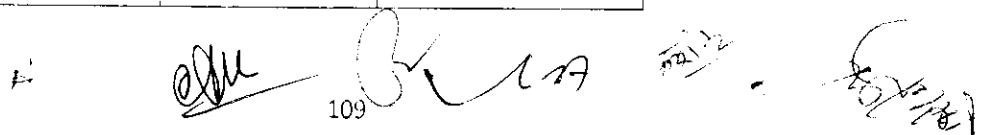
S. NO.	DESCRIPTION	AREA (SQ M)
A.	Plot Area	25891
B.	Proposed Ground Coverage (@29.97% of net plot area)	7759.53
C.	Proposed FAR (@1.98 of plot area	41872
D.	Non-FAR area	9377
E.	Built-up Area (C+D)	51248
F.	Green Area (@ 24.59% of the plot area)	6368
G.	Road Area(@ 36.43% of the plot area))	9433
H.	Paved area (@6.29 % of the plot area)	1631
I.	Open area (@2.7% of the plot area)	700
J.	Stlit parking area	7321
K.	Height	32 m
L.	No of Dwelling Units	490

CO-ORDINATES :

1	Latitude	From 22°34'28.64"N	To 22°34'36.69"N
2	Longitude	From 85°54'5.41"E	To 85°54'10.88"E

LAND DETAILS

		Khata No	Plot no
1.	Village –Banksai	4	97(P)
		5	95, 96



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	Tehsil - Rajnagar	10	94(P)
		15	24(P)
		16	93 (P)

STATUTORY CLEARANCES :

1	DFO Certificate	:	Divisional Forest Officer (DFO), Saraikela Forest Division vide letter no. 1585 dated 21.08.2021 certified that the distance of reserved / protected forest from the project site is more than 250 m.
2	DFO wildlife	:	Deputy Conservator of Forest & Field Director, Elephant Project, Jamshedpur vide letter no. 172 dated 03.09.2021 certified that the National Park, Bio Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO certificate issued vide letter no. 948 dated 27.08.2021 certified that the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
4	Fire Department	:	A Certificate from Fire Department, Ranchi, G Jharkhand vide letter no. 2732/tak/2021 dated 07.09.2021
5	Permission from CGWA	:	We wish to inform that we will not use ground water. The water required for the plant / colony will be sourced from Kharkai river. The state government has permitted withdrawal of 15370 KLD from river Kharkai and agreement is signed with the Irrigation Division

Water and waste water Requirement Details :

Category	Population/ Area (sqm)/ Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
Domestic					
Residents	1470	135	198	139	59
Staff	74	45	4	1.2	2.8
Visitors	147	15	2	1.4	0.6

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Total Domestic Water Demand			204	142	62
Landscape	6368 Sq.m	3 ltr/sqm	19	-	19
Fire Fighting			1	-	1
DG cooling	250 KVA	0.9 l/kVA/hr	2	-	2
Total		-	226	142	84

Category	Total Quantity (KLD)
Domestic water Req.	142
Flushing water Req.	62
Sewage generation (@80% of the Domestic + 100% flushing water requirement)	176
Capacity of STP	200
Recovered water from STP (90% of Waste water)	158
1. Flushing	62
2. Landscaping	19
3. Fire Fighting	1
4. DG cooling	2
5. Construction in nearby areas/road washing/e.t.c	74

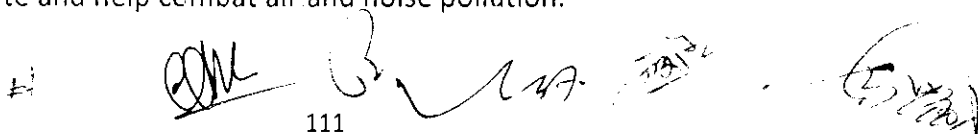
Solid Waste Requirement

S. No	Description	Occupancy/ Area	kg/capita/ day	Total Solid Waste Generation (kg/day)
1.	Residents	1470	0.5	735
2.	Staff	74	0.25	19
3.	Visitors	147	0.15	23
4.	Landscape waste	1.57 acres	0.2 kg/acres	1
5.	STP sludge	200 KLD	--	19
Total Waste Generated				797

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 6368 m² (@24.59 % of 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 re...

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 used 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 Waste (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.
- 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. 200 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, firefighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 142 KLD of fresh water is required during operational phase of the project out of which Approx. 30 KLD will be met from Rain water harvesting through UG tank.

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 Panels will be used in Street Lights, Common area, Pumping area (approx. 250 Nos of solar panels will be used to save around 5 % of the total power requirement). Details as follows:

Energy conservation by using solar light = 250 panel X 330 Watt=82.5 KW

Percentage of Energy saving by using solar light $82.5/1617= 5.10\%$

Undertaking

1. An affidavit stating that no construction work.
2. An undertaking that 93 KLD recycles waste water generated at proposed G+7 storied Residential Colony located at village – Banksai, Tehsil – Rajnagar, District – Saraikela Kharsawan of State Jharkhand shall be used in Chaliyama Steel Plant of M/s Rungta Mines Limited.
3. An undertaking that 1617 KVA Power requirement in proposed G+7 storied Residential Colony located at village – Banksai, Tehsil – Rajnagar, District – Saraikela Kharsawan of State Jharkhand shall be met from Chaliyama Steel Plant of M/s Rungta Mines Limited.
4. Ground water will not be used during construction phase.
5. There will be no tree cutting involve, Tree cutting will be done only after getting approval from competent authority and abide by their laws, if required.
6. Sufficient no. of water tankers to be used in dust suppression in the colony area.
7. Provision will be made for the removal of oil and grease from the domestic waste water in STP.
8. Provision will be made for the storage of rain water along with rain water harvesting and storage water will be used to the maximum extant.

Based on the presentation made and information provided, the Committee decided that the proposal for Proposed G+7 storied Residential Colony of M/s Rungta Mines Limited, Village : Banksai, Thana : Rajnagar, Tehsil : Rajnagar, Dist. : Saraikela Kharsawan, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III.



Day 3 : September 16, 2021 [Thursday]

Consideration of Proposals

1. Installation of Captive Power Plant of 8 MW Capacity based on WHRB / AFBC Boilers with existing premises of M/s Balmukund Sponge & Iron (P) Lt., Village : Manjhiladih, P.O. : Gadisirampur, P.S. : Giridih (Muffasil), Dist. : Giridih, Jharkhand.

(Proposal No. : SIA/JH/THE/ 59149/2020).

The Project Authorities vide letter dated 15.09.2021 requested to defer appraisal of the proposal. The Committee considered the request and accepted the same.

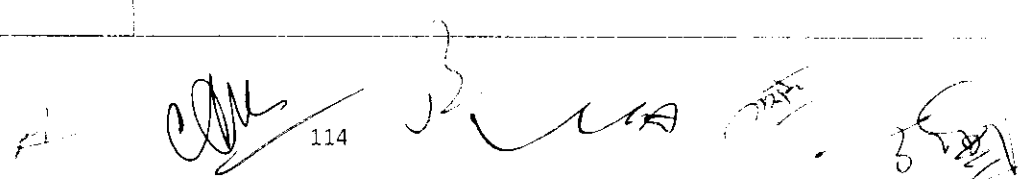
2. Kanhopur Stone Deposit of M/s Presidency Minerals Pvt. Ltd., Village : Kanhopur, P.O. : Malpahari (O.P.), Thana no. : 98, Dist. : Pakur, Jharkhand (0.96 Ha).

(Proposal No. : SIA/JH/MIN/589821/2020).

Project Title	Kanhopur Stone Deposit of Presidency Minerals Private Limited in Mauza - Kanhopur, P.O.- Chengadanga, P.S. - Malpahari (O.P.), District - Pakur, Jharkhand , over an area of 2.37 Acres (0.96 Ha).
Proposal No. :	SIA/JH/MIN/58982/2020
Project Category:	B1 – Application for TOR
EC Application for :	Stone : 15,460 Cu.M. / year i.e. 46,380 TPA
Name of the consultant :	M/s Crystal Consultants, Ranchi, Jharkhand.
This is a new/expansion project which has been taken for appraisal on 16.09.2021	

Project & Location Details :

Sl	Parameter	Details
1	Project Name	: Kanhopur Stone Deposit
2	Lessee:	: Presidency Minerals Private Limited
3	Lease Address	: Village : Kanhopur, Thana : Malpahari (O.P.), Thana no. : 98, Dist. : Pakur, Jharkhand
4	Lease Area	: Ha : 0.96 Hectares Acres : 2.37 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 64 Lakhs

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7	EMP Budget	:	Capital: 10.04 Lakhs	Recurring: 3.68 Lakh / year
8	CSR / CER Budget	:	Rs. 1.30 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.: 77,055 Cu. M.	Tonnes: 2,31,165 Tonnes
11	Mine Life	:	5 years	
12	Man power	:	24	
13	Water Requirement	:	14.315 KLD (Drinking: 0.96 KLD, Dust Suppression: 10.2 KLD, Plantation: 3.155 KLD)	
14	Water Source	:	From Banshlai Nadi by tankers	
15	DG Set / power	:	No	
16	Crusher	:	No	
17	Nearest Water Body	:	Banshlai Nadi is approx. 8.3 Km aerial distance away in south direction	
18	Nearest Habitation	:	Banarampur village is approx. 1.92 Km aerial distance away in south direction Pakur Town is approx. 8.15 Km aerial distance away in the North East direction	
19	Nearest Rail Station	:	Rajgram Railway Station is approx. 3.72 Km aerial distance away in South - East direction	
20	Nearest Air Port	:	Netaji Subhash Chandra Bose International Airport, Kolkata, West Bengal is approx. 220 Km aerial distance away in South - East direction.	
21	Nearest Forest	:	approx. 1.55 Km aerial distance away in North West direction.	
22	Road & Highways	:	Road - Harirampur – Hamrol Road is approx. 740m away in North direction. Highway - SH-7 is approx. 4.02 Km away in South -	

		East direction.
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CO-ORDINATES

1	Latitude	From 24°33'35.42" N	To 24°33'38.50" N
2	Longitude	From 87°50'02.88" E	To 87°50'08.88" E

LAND DETAILS

Sl. No.	Khata no.	Plot no.
1.	22	321
2.	26	318, 325
3.	29	322, 323, 324, 345, 346.

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, vide letter no. 871/M dated 10.06.2020.
2	CO	:	The CO, Pakur, vide letter no. 1233, dated 08.09.2019 has mentioned the plot no. of the project no recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur, vide memo no. 1872/M, dated 10.10.2020 certified that three leases (5.78 Acres, 6.83 Acres & 7.50 Acres) exist within 500 m radius from proposed project site & Total lease area is 22.48 Acres i.e. 9.10 Ha. which is more than 5 Ha.
4	DFO Wild Life	:	Division Forest Officer Wildlife Hazaribagh vide letter no. 2041, dated 21.09.2019 certified that the National Park Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	Division Forest Officer, Pakur Forest Division vide letter no. 1168, dated 28.09.2019 certified that the distance of notified forest is more than 250m from proposed project site
6	DSR	:	Project's name is mentioned in page no 70 of District Survey report (DSR) Pakur.

7	Gram Sabha	:	BDO, Pakur Letter no. 1503, dated 09.08.2019
8	Mine Plan Approval	:	Deputy Director Mines, Santhal Pargana Circle, Dumka memo no. 305/DDM dated 15.10.2020

Working Details

1	Mining Method	:	Opencast Mechanized mining. Jack Hammer, Drilling & Blasting to be used.
2	Quarry Area	:	5 years – 0.551 Ha Life of Mine – 0.551 Ha
3	Waste Generation	:	5 years– 9203 Cu.M (Gritty Soil) Life of Mine – 9203 Cu.M (Gritty Soil)
4	Stripping Ratio	:	1 : 0.12
5	Working Days	:	300 Days
6	Benches: size & No	:	Size: 6m x 6m, No. - 5
7	Elevation of Mine	:	Highest RL 40m AMSL, Lowest RL 38m AMSL
8	Ground Level Elevation	:	38m AMSL
9	Ultimate Working Depth	:	10m AMSL
10	Water Table	:	5m AMSL
11	Topography of Mine	:	Gently Slopping Land.
12	Explosive Requirement	:	6.9 Tons/year
13	Diesel/Fuel requirement	:	3.9 KL/year (130 Litres/day)

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste (gritty soil) Generation (CuM)	Bench RL in Meters
1st	15,460	46,380	6650	40m – 34m
2nd	15,414	46,242	Nil	34m – 28m

3rd	15,429	46,287	Nil	34m – 22m
4th	15,419	46,257	2553	40m – 27m
5th	15,326	45,978	Nil	22m – 10m
Total	77,048	2,31,144	9203	

Land Use

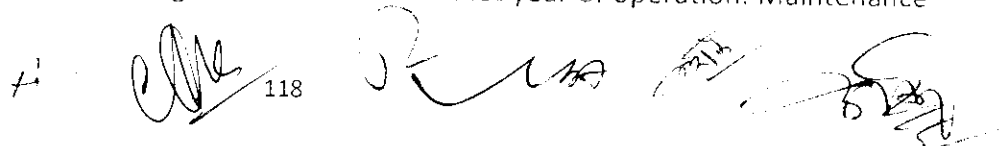
SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.043	0.551	0.551	0.551	Water Body
2	Office /Store	Nil	Nil	Nil	Nil	
3	Crusher	Nil	Nil	Nil	Nil	
4	Road	0.002	Nil	Nil	Nil	
5	Garland Drain	Nil	Nil	Nil	Nil	
6	Safety Zone	Nil	0.409	0.409	0.409	Plantation
7	Settling Tank	Nil	Nil	Nil	Nil	
8	Unutilized	0.915	Nil	Nil	Nil	
	TOTAL	0.96	0.96	0.96	0.96	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.409 Ha	1023 trees @ 2500 trees per Ha
2	Other Reclaimed Area	NIL	NIL
3	Haul /Approach Road	0.148 Ha i.e. Length 740m width 2m	496 trees on both sides – 3m distance

- 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 (gritty soil) Generation will be 9203 Cu.M. during the life of Mine.
The area is covered with a thin layer of gritty soil of 2m thickness. During quarry advancement gritty soil will be removed, at first the removal gritty soil will be temporarily dumped in the south eastern side of the applied area suitable precaution like constructing parapet wall and garland drain. The dumping of the OB in external dump would be continue till 3rd year after that the external dump and removal of gritty soil on 4th year will 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 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:

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

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 on 14, 15, 16, 17 & 18.09.2021, 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 for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II.

3. Light House Project Ranchi – Construction of 1008 DU for EWS of M/s JUIDCO Ltd., Village : Anni, Tehsil : Nagri, Thana no. : 227, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/224569/2021).

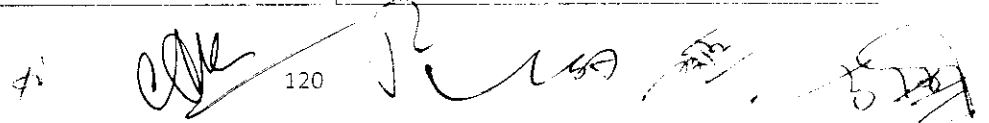
Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 16.09.2021.

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

Plot Area as per allotment	21569.56 Sq. m.	
Height	32 m	16.15 m
Built – Up Area (50733.55 Sq. m.)	47565.63 Sq. m.	3167.92 Sq. m.
Number of Floor	G+8	G+3
Number of Block	7	1

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Number of Dwelling Units	1008 (1BHK) (16 DU per floor)	Ground Floor													
		Office	1												
		Shop	8												
		Health Care (Nurse Change Room + Dr. Chamber + Store for Pharmacy + Dressing / Injection Room + Registration Room + Waiting Room)	1												
		Community Hall	1												
		First Floor													
		Class Room	10												
		Principal Room	1												
		Office	1												
		Staff Room	1												
		Second Floor													
		Class Room	8												
		Skill Development Centre	4												
Third Floor															
Hall	3														
FAR	2.352														
Ground Covered Area (7166.35 Sq. m.)	6299.35 Sq. m.	867 Sq. m.													
Population (4990)	Permanent – 4032 @ 4 person per 1BHK DU Floating 10% - 403 Total - 4435	Shop – 52 @ 3 sq. m. per person Office – 1 @ 10 sq. m. per person Health Care – 46 (Bed + Staff + 7 person per bed for OPD) Educational Institute – 456 (20 Student Per Class + 1 Principal + Teacher @ 40 student per Teacher + 4 Office Staffs) Total - 555													
Water Demand (466.69 KLD)	Domestic (70 L Per Person) – 310.45 KLD Flushing (30 L Per Person) – 133.05 KLD Total - 443.50 KLD	Total Water Demand – 23.19 KLD <table border="1" style="width: 100%;"> <tr> <td colspan="2" style="text-align: center;">Domestic Water Demand – 13.15 KLD</td> </tr> <tr> <td>Shop (25 L per Person)</td> <td style="text-align: center;">1300 L</td> </tr> <tr> <td>Office (25 L per Person)</td> <td style="text-align: center;">25 L</td> </tr> <tr> <td>Educational Institute (25 per Person)</td> <td style="text-align: center;">10325 L</td> </tr> <tr> <td>Health Care</td> <td></td> </tr> <tr> <td>Bed</td> <td style="text-align: center;">1150 L</td> </tr> </table>		Domestic Water Demand – 13.15 KLD		Shop (25 L per Person)	1300 L	Office (25 L per Person)	25 L	Educational Institute (25 per Person)	10325 L	Health Care		Bed	1150 L
Domestic Water Demand – 13.15 KLD															
Shop (25 L per Person)	1300 L														
Office (25 L per Person)	25 L														
Educational Institute (25 per Person)	10325 L														
Health Care															
Bed	1150 L														

		(230 L per Bed)
		OPD (10 L per Attendant) 350 L
		Flushing Water Demand – 10.04 KLD
		Shop 1040 L (20 L per Person)
		Office 20 L (20 L per Person)
		Educational Institute 8260 L (20 per Person)
		Health Care
		Bed 550 L (115 L per Bed)
		OPD (5 L per Attendant) 175 L
Source of Water	Municipal Water Supply System	
Domestic (323.60 KLD)	310.45 KLD	13.15 KLD
Flushing (143.19 KLD)	133.05 KLD	10.14 KLD
Total Volume of Sewage (402.07 KLD)	$(310.45 \times 80\%) + 133.05 = 381.41$ KLD	$(13.15 \times 80\%) + 10.14 = 20.66$ KLD
Capacity of STP	420 KLD	
Treated Water	321.66 KLD	
Waste Water Management		
Discharge	266.66 KLD	
Dust Suppression	50.00 KLD	
Horticulture	5.00 KLD	
Municipal Solid Waste @ 0.6 Kg per Person	2661.00 Kg	333.00 Kg
Bio-Degradable (40 % of MSW)	1064.40 Kg	133.20 Kg
Non – Biodegradable (60% of MSW)	1596.6 Kg	199.8 Kg
Power Requirement (1820 KVA)	EWS Residential Building – 1492KVA Source – Jharkhand State Electricity Board	Community Building – 176KVA Source – Jharkhand State Electricity Board Common Services – 152 KVA

		Source : Solar Power
Back – Up Power	Back up - 500 KVA (2 D.G. Set for 250 KVA each)	
Parking	210 Car	
Rain Water Harvesting Pit	14 Pits	1 Pit
Plot Area Break-Up		
Ground Coverage	7166.35 Sq. m.	
Road	5364.68 Sq. m.	
Plantation	4350.23 Sq. m. (20.16 %)	
Connectivity		
Road	NH-39 (Ranchi Ring Road) & NH-33	
Railway	Hatia Railway Station – 3.0 Km Ranchi Railway Station – 8.0 Km	
Airport	Birsamunda Airport Ranchi – 4.0 Km	
Latitude	23°19'19.46" N	
Longitude	85°17'27.30" E	
Project Cost	Rs. 134 Cr.	
CER	Rs. 2.01 Cr.	
EMP Cost	Rs. 60 Lakhs	
Recurring Cost	Rs. 6 Lakhs	

Khata no. & Plot no. of the project site :

Khata no. & Plot no.	Khata No.	Plot no.
	24	710
	11	711, 712, 713 & 715
	61	714
	04	730 (P)

The DFO, Wildlife Ranchi, vide letter no. LETTER20210724, dated 26.07.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

The DFO, Ranchi Division vide letter no. 2120, dated 11.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.

The CO, Nagri, Ranchi vide letter no. 874 (ii), dated 24.08.2020 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

Specific observations of the committee during appraisal are as under :

- i. Revised EMP



- ii. Traffic impact study
- iii. Emergency Evacuation plan.
- iv. Revised plan of green belt development and location of rain water harvesting pits.

The PAs have submitted the above documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Light House Project Ranchi – Construction of 1008 DU for EWS of M/s JUIDCO Ltd., Village : Anni, Tehsil : Nagri, Thana no. : 227, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III along with specific conditions as follows :

- i. PAs have to implement dual plumbing system to maximize use of recycle water.
4. Baghmura Stone Deposit of M/s Tara Stone Works, Village : Baghmura, Thana : Meheshpur, Thana no. : 339, Dist. : Pakur, Jharkhand (2.88 Ha).

(Proposal No. : SIA/JH/MIN/224160/2021).

Project Category	B2 – Application for Environment Clearance
EC Application for	Stone: 33,497 Cu.M. / year i.e. 1,00,491 TPA
Name of the consultant :	M/s Crystal Consultants, Ranchi, Jharkhand, 834002.
This is a new project which has been taken for appraisal on 16.09.2021	

Project & Location Details :

Sl	Parameter	Details
1	Project Name	: Baghmura Stone Deposit
2	Lessee:	: M/s Tara Stone Works
3	Lease Address	: M/s Tara Stone Works Proprietor: - Sri Tarachand Kirrim Chandani Mouza - Baghmura, P.S. - Maheshpur, District - Pakur, Jharkhand
4	Lease Area	: Ha : 2.88 Hectares Acres : 7.11 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 74 Lakhs
7	EMP Budget	: Capital: 15.79 Lakhs Recurring: 4.55 Lakh / year

8	CSR / CER Budget	:	Rs. 1.50 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 3,34,903 Cu. M. Tonnes: 10,04,709 Tonnes
11	Mine Life	:	10 years
12	Man power	:	29
13	Water Requirement	:	21.71 KLD (Drinking: 1.16 KLD, Dust Suppression: 13.0 KLD, Plantation: 7.55 KLD)
14	Water Source	:	From Brahmani River by tankers
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Brahmani River is approx. 6.94 Km aerial distance away in South East direction
18	Nearest Habitation	:	Chengagaria village is approx. 2.26 Km aerial distance away in west direction Nalhati Town is approx. 8.34 Km aerial distance away in the South East direction
19	Nearest Rail Station	:	Nalhati Railway Station is approx. 8.08 Km aerial distance away in South - East direction
20	Nearest Air Port	:	Netaji Subhash Chandra Bose International Airport, Kolkata, West Bengal is approx. 197.84 Km aerial distance away in South - East direction.
21	Nearest Forest	:	More than 250m away from the proposed project.
22	Road & Highways	:	Road: Radhanagar – Baghmara Pahari - Kadashir Road is approx. 570m away in south direction. Highway: SH-7 is approx. 7.92 Km away in west direction.

CO-ORDINATES

1	Latitude	From 24°19'34.45" N	To 24°19'41.23" N
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2	Longitude	From 87°45'51.49" E	To 87°46'00.30" E
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LAND DETAILS

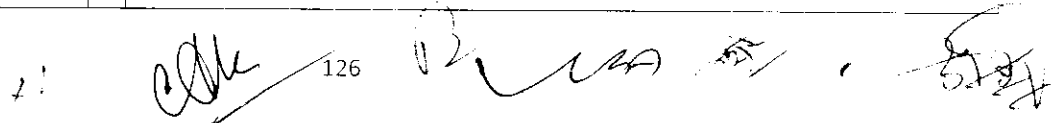
Sl. No.	Khata no.	Plot no.
1.	36	32
2.	15	33
3.	05	56

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, vide letter no. 561/M dated 10.04.2021.
2	CO	:	The CO, Pakur, vide letter no. 599, dated 25.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Pakur, vide letter no. 828/M, dated 19.06.2021 certified that no other lease exist within 500m radius from proposed project site & total lease area is 7.11 Acres i.e. 2.88 Ha.
4	DFO Wild Life	:	Division Forest Officer Wildlife Hazaribagh vide letter no. 736, dated 10.04.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	Division Forest Officer, Pakur Forest Division vide letter no. 497 dated 05.03.2021 certified that the distance of notified forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Pakur, vide letter no. 878 / M, dated 21.06.21 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 20.08.2020
8	Mine Plan Approval	:	District Mining Office, Pakur Letter No. 1323/M dated 03.08.2

Working Details

1	Mining Method	:	Opencast Mechanized mining. Jack Hammer, Drilling & Blasting to be used.
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2	Quarry Area	:	5 years – 2.03 Ha	Life of Mine – 2.17 Ha
3	Waste Generation	:	5 years– 4988 Cu.M (Gritty Soil)	Life of Mine – 5600 Cu.M (Gritty Soil)
4	Stripping Ratio	:	1 : 0.03	
5	Working Days	:	300 Days	
6	Benches: size & No	:	Size: 6m x 6m, No. - 7	
7	Elevation of Mine	:	Highest RL 86m AMSL, Lowest RL 72m AMSL	
8	Ground Level Elevation	:	72m AMSL	
9	Ultimate Working Depth	:	44m AMSL	
10	Water Table	:	33m AMSL	
11	Topography of Mine	:	Hill slope Land.	
12	Explosive Requirement	:	6.9 Tons/year	
13	Diesel/Fuel requirement	:	30.6 KL/year (102 Litres/day)	

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste (gritty soil) Generation (CuM)	Bench RL in Meters
1st	33,415	1,00,245	4988	86m – 68m
2nd	33,485	1,00,455	Nil	74m – 68m
3rd	33,496	1,00,488	Nil	74m – 62m
4th	33,454	1,00,362	Nil	68m – 62m
5th	33,497	1,00,491	Nil	68m – 62m
Total	1,67,347	5,02,041	4988	

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)	1.64	2.03	2.17	2.17	Water Body - 1.59 Ha Dead bench



						Plantation – 0.7 Ha
2	Office /Store	Nil	Nil	Nil	Nil	
3	Crusher	Nil	Nil	Nil	Nil	
4	Road	0.05	Nil	Nil	Nil	
5	Garland Drain	Nil	Nil	Nil	Nil	
6	Green Belt Within Safety Barrier	Nil	0.71	0.71	0.71	Plantation
7	Settling Tank	Nil	Nil	Nil	Nil	
8	Magazine	0.03	0.03	Nil	Nil	
9	Unutilized	1.16	0.09	Nil	Nil	
	TOTAL	2.88	2.88	2.88	2.88	

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	Other Reclaimed Area (Dead Bench Plantation)	:	0.58 Ha	1450 trees @ 2500 trees per Ha
3	Haul /Approach Road	:	0.114 Ha i.e. Length 570m width 2m	382 trees on both sides – 3m distance

- 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 (gritty soil) Generation will be 5600 Cu.M. during the life of Mine. During 1st year of mining, some extent of gritty soil will be removed and 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 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.



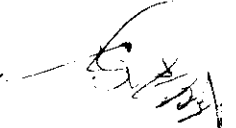
Air Quality Management

- 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 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.


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- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- 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.

Based on the presentation made and information provided, the Committee in the presence of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M date 12.12.18 decided that the proposal for Baghmura Stone Deposit of M/s Tara Stone Works, Village : Baghmura, Thana : Meheshpur, Thana no. : 339, Dist. : Pakur, Jharkhand (2.88 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

5. Brick Soil Mining for M/s Isha Bricks Works, Village : Kedal, Thana : Sadar, Thana no. : 165, Dist. : Ranchi, Jharkhand (0.858 Ha).

(Proposal No. : SIA/JH/MIN/197104 /2021).

EC Application for	Soil : 1200 Cu.M. / year i.e. Bricks 6,00,000 Numbers / year.
Name of the consultant :	M/s Crystal Consultants, Ranchi, Jharkhand.
This is a new project which has been taken for appraisal on 16.09.2021	

Project & Location Details :

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s Isha Bricks Work in Mouza - Kedal.
2	Lessee:	: M/s Isha Bricks Work
3	Lease Address	: M/s Isha Bricks Work Proprietor: - Sri Ram Kishore Prasad Village : Kedal, Thana : Sadar, Thana no. : 165, Dist. : Ranchi, Jharkhand
4	Lease Area	: Ha : 0.858 Hectares Acres : 2.12 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 08 Lakhs
7	EMP Budget	: Capital : 4.14 Lakhs Recurring : 2.30 Lakh / year
8	CSR / CER Budget	: Rs. 0.16 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 14,261 Cu. M.
11	Mine Life	: 12 years

12	Man power	:	14
13	Water Requirement	:	6.97 KLD (Dust Suppression: 4.8 KLD, Drinking: 0.56 KLD, Plantation: 1.61 KLD)
14	Water Source	:	From Jumar River by tankers
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Jumar River is approx. 315m aerial distance away in South West direction
18	Nearest Habitation	:	Kedal village is approx. 600m aerial distance away in North direction Ranchi Town is approx. 9.66 Km aerial distance away in the South West direction
19	Nearest Rail Station	:	Mesra Railway Station is approx. 1.95 Km aerial distance away in North - East direction
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, Jharkhand is approx. 14.53 Km aerial distance away in South - West direction.
21	Nearest Forest	:	3.1 Km away from the proposed project.
22	Road & Highways	:	Road: Getlatu - Kedal- Mesra Road is approx. 360m away in East direction. Highway: NH-33 is approx. 1.27 Km away in East direction.

CO-ORDINATES

1	Latitude	:	From N 23°25'30.63"	To N 23°25'34.69"
2	Longitude	:	From E 85°23'52.23"	To E 85°23'56.42"

LAND DETAILS

Sl. No.	Khata no.	Plot no.
1.	31	628

STATUTORY CLEARANCES :

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Kanke, Ranchi, vide letter no. 1044(ii), dated 09.12.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Ranchi, vide memo no. 1407/M, dated 07.12.2017 certified that no other lease exist within 500m radius from proposed project site.
4	DFO Wild Life	:	Division Forest Officer, Wildlife Division Ranchi, vide memo no. 1106, dated 30.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any

			ESZ.
5	DFO Forest Distance	:	Division Forest Officer, Ranchi Forest Division vide letter no. 5030, dated 31.10.2019 certified that the distance of notified forest is more than 250 m from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Ranchi district.
7	Gram Sabha	:	On 26.08.2017
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag Letter No. 644/G dated 11.08.2021

Working Details

1	Mining Method	:	Opencast Manual Mining and transportation by tippers.	
2	Quarry Area	:	5 years – 0.363 Ha	Life of Mine – () Ha
3	Waste Generation	:	5 years– 715 Cu.M (Top Soil)	Life of Mine – 164 Cu.M (Top Soil)
4	Stripping Ratio	:	1 : 0.11	
5	Working Days	:	200 Days	
6	Benches: size & No	:	Size: 1m X 1.5m, No. - 2	
7	Elevation of Mine	:	Highest RL 614m AMSL, Lowest RL 613m AMSL	
8	Ground Level Elevation	:	613m AMSL	
9	Ultimate Working Depth	:	611m AMSL	
10	Water Table	:	593m AMSL	
11	Topography of Mine	:	Flat Land.	
12	Explosive Requirement	:	No	
13	Diesel/Fuel requirement	:	4 KL/year (20 Litres/day)	

Production Details :

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench Length Meters
1st	1200	6,00,000	143	614m – 612m
2nd	1200	6,00,000	143	614m – 612m
3rd	1200	6,00,000	143	614m – 612m
4th	1200	6,00,000	143	614m – 612m
5th	1200	6,00,000	143	614m – 612m
Total	6000	30,00,000	715	

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	0.363	0.822	0.822	Grass cultivation will be done on it
2	Office /Store	Nil	Nil	Nil	Nil	
3	Road	0.001	Nil	Nil	Nil	
4	Green Belt Within Safety Barrier	Nil	0.036	0.036	0.036	Plantation
5	Unutilized	0.857	0.459	Nil	Nil	
	TOTAL	0.858	0.858	0.858	0.858	

ENVIRONMENT MANAGEMENT

Green Belt Development :

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.036 Ha	90 trees @ 2500 trees per Ha
2	Other Reclaimed Area Outside the project area	:	0.178 Ha	445 trees @ 2500 trees per Ha
3	Haul /Approach Road	:	0.072 Ha i.e. Length 360m width 2m	242 trees on both sides – 3m distance

- 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 (Top soil) Generation will be 1643 Cu.M. during the life of Mine. The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

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 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 discharge 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 Septic Tank 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

- No drilling and blasting is proposed.
- 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 transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.

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

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12.12.18 decided that the proposal for Brick Soil Mining for M/s Isha Bricks Works, Village : Kedal, Thana : Sadar, Thana no. : 165, Dist. : Ranchi, Jharkhand (0.858 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Proposed Residential & Commercial Building belongs of M/s Shekhar Buildcon Pvt. Ltd., Village : Lalpur, Tehsil : Sahar, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/ MIS/218049/2021).

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 16.09.2021.

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

Salient Features of the Project :

Plot Area	21739.52 m ² 20643.64 m ² (plot area after leaving land for road widening)
Total Built-Up Area	84868.56 m ²
Main Commercial Building	35896.98 m ²
Commercial Building Block C	2155.00 m ²
Community Building	539.94m ²
Residential Block A1	11428.74 m ²
Residential Block A2	11216.82 m ²
Residential Block B1	11815.54 m ²
Residential Block B2	11815.54 m ²
Plot Area	20,643.64 Sq. m.
Ground Coverage Proposed	7,068.22 Sq. m.
Plantation / Green Area	6,474.86 Sq. m. (31.36%) 4,235.16 Sq. m. (20.52%) (Tree Plantation)
Total Built-Up Area	84868.56 Sq. m.
Proposed FAR	2.58
Building Height	29.7 m
No. of Floor	G+9
No. of Block	7
Number of Dwelling Units	299
Estimated Population	2263
Total Water Requirement	424.49 KLD
Fresh Water Requirement	194.29 KLD
Waste Water Generation	287.75 KLD
Capacity of STP	For Residential Building 252 KLD For Commercial Building 93 KLD
Treated Water Recycled	230.20 KLD

Parking	Residential Block For 2 Wheeler – 313 For 4 Wheeler – 299 Commercial Block For 2 Wheeler – 287 For 4 Wheeler – 100
Rain Water Harvesting Pits	7 Pits
Power Requirement	Residential Building – 1645 kW Back – Up - D.G. Set for 500 KVA Commercial Building – 845 kW Back – Up - D.G. Set for 350 KVA Source – Jharkhand State Electricity Board.
Project Cost	Rs. 127,30,28,400.00
CER	Rs. 1,90,95,426.00
EMP Cost	Rs. 60.00 Lakhs
Recurring Cost	Rs. 6.00 Lakhs

Water Demand

	Water Demand (KLD)	Source
Domestic	194.29	Fresh Water
Flushing	132.32	Treated Water
Horticulture	30.00	Treated Water
Car Washing	25.00	Treated Water
Dust Suppression	5.00	Treated Water
Discharge	37.88	Treated Water
Total Fresh Water Demand		194.29 KLD
Total Treated Water Demand		230.20 KLD
Total Water Demand		424.49 KLD

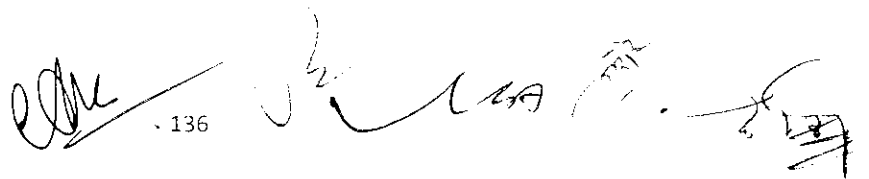
The DFO Wildlife Ranchi, vide memo no. 53, dated 15.01.2021 certified that certified that the project is not situated in any ESZ.

The DFO Ranchi Division vide letter no. 2121, dated 11.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.

The CO Shahr, Ranchi vide letter no. 455(ii), dated 04.08.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

Specific observations of the committee during appraisal are as under :

- Revised EMP
- Traffic impact study



- iii. evacuation plan
- iv. Revised green belt development plan.
- v. Undertaking for
 - a. Separate STPs for residential & commercial building blocks.
 - b. Reducing power consumption through renewable energy.

The PAs have submitted the above documents & undertakings.

Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Residential & Commercial Building belongs of M/s Shekhar Buildcon Pvt. Ltd., Village : Lalpur, Tehsil : Sahar, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III along with specific conditions as follows :

- i. PAs have to implement dual plumbing system to maximize use of recycle water.

7. Asehar Stone Deposit of M/s Reyaz Ahmed Khan Construction, Village : Asehar, Tehsil : Panki, Dist. : Palamau, Jharkhand (5.848 Ha).

(Proposal No. : SIA/JH/MIN/ 64419/2021).

Name of the consultant : M/s Crystal Consultants

This is a expansion project which has been taken for appraisal on 16.09.2021

The PAs and the consultant are required to submit certified compliance report of previous EC from Regional Office of MoEF&CC and also certified compliance report of current CTO from JSPCB.

The above documents were not submitted and hence, the project is not taken for the consideration.

8. Chapabar Stone Mine of M/s Hardrock Infra, Village : Chapabar, Tehsil : Ormanjhi, Dist. : Ranchi, Jharkhand (0.66 Ha).

(Proposal No. : SIA/JH/MIN/ 208663/2021).

Project Category : B2 – Application for Environment Clearance

EC Application for: Boulder Stone: 33350 Cu.M./ year i.e. 90,045 TPA

Name of the consultant: Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 16.09.2021.

PROJECT AND LOCATION DETAILS:

Sl	Parameter		Details
1	Project Name	:	Chapabar Stone Mine
2	Lessee:	:	M/s Hardrock Infra, (Partner: Sri Moiz Akhtar)
3	Lease Address	:	Mouza – Chapabar, Thana – Ormanjhi

		District – Ranchi, State – Jharkhand.	
4	Lease Area	: Ha: 0.66 ha.	Acres: 1.63 Ac.
5	Type of Land	: Non Forest – Rayati Land	
6	Project Cost	: 78.40 Lakhs	
7	EMP Budget	: Capital: 7.00 Lakhs	Recurring: 4.00 Lakh year
8	CSR / CER Budget	: Rs. 1.40 Lakhs	
9	New or Expansion	: New Project	
10	Mineable Reserves	: Cu.M.: 1,67,272 Cu. M.	Tonnes: 4,51,634 Tonnes
11	Mine Life	: 11 years	
12	Man power	: 24	
13	Water Requirement	: 8 KLD (Drinking: 1.0 KLD, Dust Suppression: 6.0 KLD, Plantation: 1.0 KLD)	
14	Water Source	: Dug well for drinking & River water for dust suppression/ green belt	
15	DG Set / power	: Not required	
16	Crusher	: Not within mine lease area	
17	Nearest Water Body	: Doma River 5.50 KM	
18	Nearest Habitation	: Kuchhu Village: 2.50 KM; Ormanjhi: 5.00 KM	
19	Nearest Rail Station	: Ranchi - 20.00 KM	
20	Nearest Air Port	: Ranchi - 20.00 KM	
21	Nearest Forest	: Not within 250m	
22	Road & Highways	: NH 33 – 05.00 KM; Ormanjhi – Kuchhu Road – 2.50 KM	

CO-ORDINATES :

1	Latitude	From 23° 31' 07.5" N	To 23° 31' 11.1" N
2	Longitude	From 85° 26' 41.4" E	To 85° 26' 44.1"

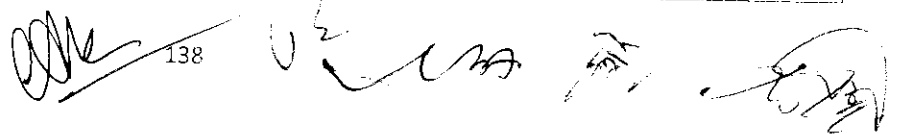
LAND DETAILS

1.	Mouza Chapabar	Khata No. 14	Plot No. 63 & 64
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STATUTORY CLEARANCES :

1	LOI/Lease docs	: LOI has been issued by District Mining Office Ranchi, vide letter no. 961/M dated 27.08.2020.
2	CO	: The CO, Ormanjhi (Ranchi) vide letter no. 559/ , dated 19.10.2019 has mentioned the plot nos. of the

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			project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	The DMO, Ranchi vide letter no. 32/M, dated 08.01.2021 certified that one lease (5.42 Ac.) exists within 500 m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife, Ranchi vide memo no. 1058, dated 24.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Ranchi vide letter no. 4717, dated 10.10.2019 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Ranchi vide letter no. 751/M, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) of Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Issued NOC on vide memo no. 1060 (ii) dated 31.08.2019
8	Mine Plan Approval	:	Letter No. 208/M, Ranchi dated 31.10.2020

Working Details

1	Mining Method	:	Opencast Mechanized.
2	Quarry Area	:	Plan period – 0.430 ha
3	Waste Generation	:	Plan period – 12238 m ³
4	Stripping Ratio	:	0.0734 (overall stripping ratio)
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m and 6 benches.
7	Elevation of Mine	:	674m AMSL
8	Ground Level Elevation	:	630m AMSL
9	Ultimate Working	:	636 m AMSL

	Depth		
10	Water Table	:	632 m AMSL
11	Topography of Mine	:	Hump like
12	Explosive Requirement	:	9000 kg/year
13	Diesel/Fuel requirement	:	NA (as DG set not required)

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench Plan
1 st	33,350	90,045	12238	600 - 660
2 nd	33,350	90,045	-	660 - 654
3 rd	33,350	90,045	-	654 - 648
4 th	33,350	90,045	-	648 - 642
5 th	33,350	90,045	-	642 - 636
Total	1,66,750	4,50,225	12,238	

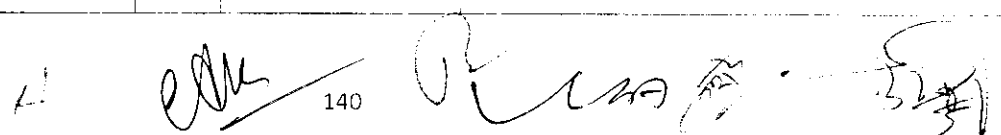
Land Use

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Use at Closure Stage
1	Mining Area	0.00	0.43	0.43	Water Body
2	Office /Store	0.00	0.00	0.00	-
3	Crusher	0.00	0.00	0.00	-
4	Road	0.00	0.00	0.00	-
5	Safety Zone	0.00	0.23	0.23	Green Belt
6	Unutilized	0.66	0.00	0.00	-
	TOTAL	0.66	0.66	0.66	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.23 ha	250 trees
2	Other Reclaimed Area	:	NIL	NIL
3	Haul /Approach	:	0.25 km	250 trees (250 m x 2 = 500 m)



	Road			
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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 no waste to be generated.

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 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 in the outer part of safety barrier 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
- Domestic waste water will not be generated.
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.

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 Order dated 12.12.18 decided that the proposal for Chapabar Stone Mine of M/s Hardrock Infra, Village Chapabar, Tehsil : Ormanjhi, Dist. : Ranchi, Jharkhand (0.66 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

9. Brick Soil Mining for M/s Jai Mata Di Bricks (J.M.D.), Mouza : Sugnu, Thana : Sadar, Dist. : Ranchi, Jharkhand (0.86 Ha).

(Proposal No. : SIA/JH/MIN/46213/2019).

The Committee is of the view that notice will be issued to PAs to attend the next PAC meeting, failing which the project will be recommended for delisting without any further intimation.

10. Brick Soil Mining for M/s Dipu Bricks, Mouza : Sugnu, Thana : Sadar, Thana no. : 170, Dist. : Ranchi, Jharkhand (1.18 Ha).

(Proposal No. : SIA/JH/MIN/192826/2021).

Project Category: B2 – Application for Environment Clearance


EC Application for: Soil: 1200 Cu.M. / Year i.e. Bricks 6,00,000 Numbers / year.

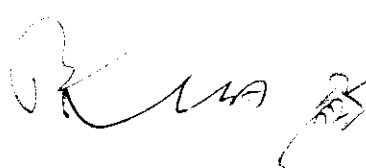
Name of the consultant: M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

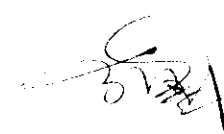
This is a new project which has been taken for appraisal on 16.09.2021

Project & Location Details:

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Sl	Parameter		Details
1	Project Name	:	Brick Soil Mining For M/s Dipu Bricks in Mouza – Sugnu.
2	Applicant:	:	M/s Dipu Bricks Legal Representative: Sri Shyam Sunder Singh S/o – Late Bisheswar Singh (Proprietor) At Near Hanuman Mandir, Koker Chowk, PO – Koker, Ranchi G.P.O. District - Ranchi, State – Jharkhand – 834001.
3	Lease Address	:	In Mouza - Sugnu, Thana – Sadar, Thana No. – 170, District – Ranchi, Jharkhand.
4	Applied Area	:	Ha: 1.18 Hectares Acres: 2.93 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	10 Lakhs
7	EMP Budget	:	Capital: 3.62 Lakhs Recurring: 2.29 Lakh / year
8	CSR / CER Budget	:	Rs. 0.20 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 19,887 Cu. M.
11	Mine Life	:	17 years
12	Man power	:	14
13	Water Requirement	:	4.96 KLD (Dust Suppression: 2.4 KLD, Drinking: 0.56 KLD, Plantation: 2.00 KLD)
14	Water Source	:	From Subarnarekha River by tankers
15	DG Set / power	:	No

16	Crusher	:	No
17	Nearest Water Body	:	Subarnarekha River is approx. 770m aerial distance away in North - East direction
18	Nearest Habitation	:	Jamuari village is situated approx. 510m aerial distance away in North direction
19	Nearest Rail Station	:	Mesra Railway Station is situated approx. 2.71 Km aerial distance away in North - West direction.
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, Jharkhand is situated approx. 14.10 Km aerial distance away in North - West direction.
21	Nearest Forest	:	625m away from the proposed project.
22	Road & Highways	:	Approach Road: Sugnu - Masu Road is approx. 90m away in South direction. Highway: NH-33 is approx. 2.76 Km away in West direction.

CO-ORDINATES :

1	Latitude	From N 23°23'56.10"	To N 23°24'01.34"
2	Longitude	From E 85°25'38.97"	To E 85°25'42.82"

LAND DETAILS

Khata No -	09
Plot Nos -	2900 & 2903

STATUTORY CLEARANCES :

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Kanke, Ranchi, vide letter no. 1067(ii), dated 17.12.2019 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon of Cluster II.
3	DMO	:	DMO, Ranchi, vide letter no. 39/M, dated 04.01.2018 certified that no other lease exists within 500m radius from

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			proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	:	Division Forest Officer, Wildlife Division Ranchi, vide memo no. 1274, dated 19.11.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	Division Forest Officer, Ranchi Forest Division vide letter no. 5028, dated 31.10.2019 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project's name is mentioned in page no 155 of District Survey report (DSR) Ranchi.
7	Gram Sabha	:	On 26.08.2017
8	Mine Plan Approval	:	Approved by the Additional Director, Geology, Hazaribag vide Letter no. 657/G on dated 27.08.2021.

Working Details

1	Mining Method	:	Opencast Manual Mining and transportation by tippers.	
2	Quarry Area	:	5 years – 0.370 Ha	Life of Mine – 1.136 Ha
3	Waste Generation	:	5 years– 710 Cu.M (Top Soil)	Life of Mine – 2281 Cu.M (Top Soil)
4	Stripping Ratio	:	1 : 0.11	
5	Working Days	:	200 Days	
6	Benches: size & No	:	Size: 1m X 1.5m, No. - 2	
7	Elevation of Mine	:	Highest RL 612m AMSL, Lowest RL 610m AMSL	
8	Ground Level Elevation	:	610m AMSL	
9	Ultimate Working Depth	:	608m AMSL	
10	Water Table	:	593m AMSL	
11	Topography of Mine	:	Flat Land.	

12	Explosive Requirement	:	No
13	Diesel/Fuel requirement	:	4 KL/year (20 Litres/day)

Production Details :

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in meters
1st	1200	6,00,000	142	610m - 608m
2nd	1200	6,00,000	142	610m - 608m
3rd	1200	6,00,000	142	610m - 608m
4th	1200	6,00,000	142	610m - 608m
5th	1200	6,00,000	142	610m - 608m
Total	6000	30,00,000	710	

Land Use :

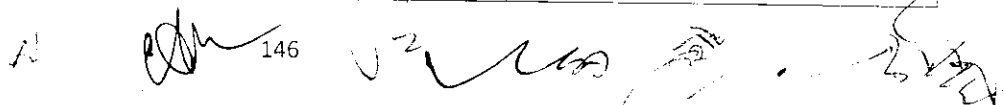
SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Use at Conceptual Stage
1	Mining Area (Quarry)	Nil	0.370	1.136	1.136	Grass cultivation will be done on it
2	Road	0.001	Nil	Nil	Nil	
3	Green Belt Within Safety Barrier	Nil	0.044	0.044	0.044	Plantation
4	Unutilized	1.179	0.766	Nil	Nil	
	TOTAL	1.180	1.180	1.180	1.180	

ENVIRONMENT MANAGEMENT

Green Belt Development :

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.044 Ha	110 trees @ 2500 trees per Ha
2	Other	0.328 Ha	820 trees @ 2500 trees

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	Reclaimed Area Outside the project area		per Ha
3	Haul /Approach Road	:	0.018 Ha
			i.e. Length 90m width 2m
			62 trees on both sides – 3m distance

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. 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, Deptt. 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 (Top soil) Generation will be 2281 Cu.M. during the life of Mine.

The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

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

- No drilling and blasting is proposed.
- 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 followed by 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 transport vehicles should be maintained in good condition and annual test for fitness and PUC and records to be maintained.

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 Brick Soil Mining for M/s Dipu Bricks, Mouza : Sugnu, Thana : Sadar, Thana no. : 170, Dist. : Ranchi, Jharkhand (1.18 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

11. Brick Soil Mining for M/s Tiger Bricks, Mouza : Dhautikra, Thana : Silli, Thana no. : 77 Dist. : Ranchi, Jharkhand (1.1064 Ha).

(Proposal No. : SIA/JH/MIN/187619/2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1200 Cu.M. / Year i.e. Bricks 6,00,000 Numbers / year.

Name of the consultant : M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

This is a new project which has been taken for appraisal on 16.09.2021

Project & Location Details:

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s Tiger Bricks in Mouza – Dhautikra.
2	Lessee:	: M/s Tiger Bricks Proprietor: Sri Jyoti Lal Shaw

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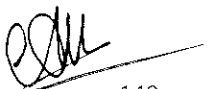


			At near Union Bank, Silli, District – Ranchi, State – Jharkhand, Pin Code - 835102.	
3	Lease Address	:	In Mouza – Dhautikra, Thana – Silli, Thana No – 72, District – Ranchi, Jharkhand.	
4	Lease Area	:	Ha: 1.064 Hectares	Acres: 2.63 Acres
5	Type of Land	:	Non Forest – Rayati Land	
6	Project Cost	:	10 Lakhs	
7	EMP Budget	:	Capital: 5.30 Lakhs	Recurring: 2.39 Lakh / year
8	CSR / CER Budget	:	Rs. 0.20 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.: 9,770 Cu. M.	
11	Mine Life	:	8 years	
12	Man power	:	10	
13	Water Requirement	:	6.08 KLD (Dust Suppression: 3.1 KLD, Drinking: 0.40 KLD, Plantation: 2.58 KLD)	
14	Water Source	:	From Subarnarekha River by tankers	
15	DG Set / power	:	No	
16	Crusher	:	No	
17	Nearest Water Body	:	Subarnarekha River is approx. 4.77m aerial distance away in East direction	
18	Nearest Habitation	:	Khapchabera village is approx. 1.14 km aerial distance away in south - eastern direction Muri Town is approx. 3.41 Km aerial distance away in the South- Eastern direction	
19	Nearest Rail Station	:	Silli Railway Station is approx. 2.84 Km aerial distance away in South direction.	
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, Jharkhand is approx. 51.25 Km aerial distance away in West direction.	
21	Nearest Forest	:	262m away from the proposed project.	
22	Road & Highways	:	Road: Pundag - Jatra - Dhautikra Road is approx. 130m away in South direction. Highway: SH-1 is approx. 2.21 Km away in South- West direction.	

CO-ORDINATES

1	Latitude		From N 23°22'37.61"	To N 23°22'41.29"
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2	Longitude	From E 85°49'21.71"	To E 85°49'28.84
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LAND DETAILS :

Khata No -	19
Plot Nos -	260, 261, 262, 263, 264 & 258

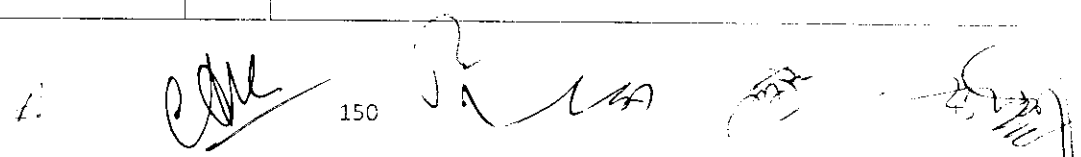
STATUTORY CLEARANCES :

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Silli, Ranchi, vide letter no. 113(ii), dated 02.03.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar or Register II.
3	DMO	:	DMO, Ranchi, vide letter no. 40/M, dated 04.01.2018 certified that no other lease exists within 500m radius from proposed project site & total lease area is less than 10000 Sq. m.
4	DFO Wild Life	:	Division Forest Officer, Wildlife Division Ranchi vide letter no. 1275, dated 19.11.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	Division Forest Officer, Ranchi Forest Division vide letter no. 3104, dated 29.09.2018 certified that the distance of notified forest is 262 m from proposed project site.
6	DSR	:	Project's name is mentioned in page no 163 of District Survey report (DSR) Ranchi.
7	Gram Sabha	:	On 30.10.2017
8	Mine Plan Approval	:	Approved by the Assistant Mining Officer, Ranchi, vide Memo no. 562 dated 19.06.2018.

Working Details

1	Mining Method	:	Opencast Manual Mining and transportation by tippers.
2	Quarry Area	:	5 years – 0.376 Ha Life of Mine – 0.587 Ha
3	Waste Generation	:	5 years– 735 Cu.M (Top Soil) Life of Mine, 1174 Cu.M (Top Soil)
4	Stripping Ratio	:	1 : 0.12
5	Working Days	:	200 Days
6	Benches: size & No	:	Size: 1m X 1.5m, No. - 2

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7	Elevation of Mine	:	Highest RL 267m AMSL, Lowest RL 266m AMSL
8	Ground Level Elevation		266m AMSL
9	Ultimate Working Depth	:	264m AMSL
10	Water Table	:	252m AMSL
11	Topography of Mine	:	Flat Land.
12	Explosive Requirement	:	No
13	Diesel/Fuel requirement	:	4 KL/year (20 Litres/day)

Production Details

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in Meters
1st	1200	6,00,000	147	266m – 264m
2nd	1200	6,00,000	147	266m – 264m
3rd	1200	6,00,000	147	266m – 264m
4th	1200	6,00,000	147	266m – 264m
5th	1200	6,00,000	147	266m – 264m
Total	6000	30,00,000	735	

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	0.376	0.587	0.587	Grass cultivation will be done on it
2	Road	0.001	Nil	Nil	Nil	
3	Green Belt Within Safety Barrier	Nil	0.477	0.477	0.477	Plantation
4	Unutilized	1.063	0.211	Nil	Nil	
	TOTAL	1.064	1.064	1.064	1.064	

ENVIRONMENT MANAGEMENT

Green Belt Development :

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.477 Ha	1193 trees @ 2500 trees per Ha
2	Haul /Approach Road	:	0.026 Ha i.e. Length 130m width 2m	88 trees on both sides – 7m distance

- 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 (Top soil) Generation will be 1174 Cu.M. during the life of Mine.
The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

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 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 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 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

- No drilling and blasting is proposed.

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 transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.

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 Brick Soil Mining for M/s Tiger Bricks, Mouza : Dhautikra, Thana : Silli, Thana no. : 72, Dist. : Ranchi, Jharkhand (1.1064 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

12. "Bhagwati Heritage" of M/s Nirbhay Buildcon Private Limited, Village : Dindli, Tehsil : Gamharia, Dist. : Seraikela Kharsawan, Jharkhand.

(Proposal No. : SIA/JH/ MIS/ 218243/2021).

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 16.09.2021.

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

Salient Features of the Project :

Particular	Residential Building	Commercial Building
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Plot Area as per allotment	8012 Sq. m.	
	Break-Up	
	Residential	- 1980.73 Sq. m. (24.72%) Commercial
	Roads	- 772.52 Sq. m. (9.64 %)
	Plantation	- 1102.98 Sq. m. (13.76 %)
Services	- 2307.3 Sq. m. (29 %)	
		- 1617.72 Sq. m. (20.19 %)
Plot No.	JSHB Plot No. 4 (1538, 1550, 1573 , 1574, 1575, 1576, 1577, 1578, 1581, 1583, 1584, 1596, 1597, 1598, 1599)	
Khata No.	10, 12, 14, 17, 19, 84, 114, 134, 157, 186	
Height	32m	29 m
Built - Up Area (39322.37Sq. m.)	31555.02 Sq. m.	7767.35 Sq. m.
Number of Floor	G+9	G+7
Number of Block	1	1
Number of Dwelling Units	2 BHK - 102 3 BHK - 54 4 BHK - 1 TOTAL - 157	Office - 13 Showroom - 8 Room - 22 Café/Canteen/Restaurant - 3 Hall - 4 Total - 50
FAR	3.31	
Ground Covered Area (2753.52 Sq. m.)	1980.73 Sq. m.	772.52 Sq. m.
Population	Permanent - 896	Permanent - 1357
Source of Water	Municipal Water Supply System	
Domestic (107KLD)	80KLD	27KLD
Flushing (60KLD)	40KLD	20KLD
Total Volume of Sewage	104KLD	41KLD
Capacity of STP	125KLD	50 KLD
Treated Water	83.20KLD	32.80KLD
(80% Capacity of STP)		116KLD
Municipal Solid Waste @ 0.6 Kg per	537.60 Kg	814.20 Kg
Bio-Degradable (40% of MSW)	215.04 Kg	325.68 Kg
Non - Biodegradable	322.56 Kg	488.52 Kg
Power	662.31KW/827.89KVA	571.04KW/713.81KVA
Back - Up Power	250KVA	150KVA
Parking	173	66
Rain Water Harvesting Pit	18 nos	10 nos
No. of Tree @ 5 Sq. m per Tree	1650 nos	

Plot Area Break-Up	
Ground Coverage	2753.52 Sq. m. (34.36 %)
Roads	1102.98 Sq. m. (13.76 %)
Plantation	2307.3 Sq. m. (29 %)
Services	1617.72 Sq. m. (20.19 %)
Connectivity	
Road	200 m
Railway	Adityapur Railway Station : 1.18 Km
Airport	Sonari Airport : 2.93 Km
Project Cost	Rs. 35.66 Crores
CER	Rs. 0.5349 Crores
EMP Cost	Rs. 60.00 Lakhs
Recurring Cost	Rs. 6.00 Lakhs

Water & Waste Water :

	Water Demand	Source
Domestic	107.00	Fresh Water
Flushing	60.00	Treated Water
Horticulture	5.00	Treated Water
Car Washing	25.00	Treated Water
Dust Suppression	26.48	Treated Water
Discharge	0.00	Treated Water

Building Plan Approved by **Adityapur** Municipal Corporation vide Memo No. - **A MC/4H/0114/W15/2019**, dated - **05/12/2020**

Airport Authority of India issued a height clearance NOC vide its NOC ID - **JAMS/EAST/B/090920/479885** dated **23/09/2020** and this NOC is valid till **21/09/2028**.

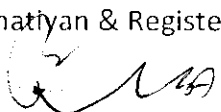
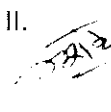
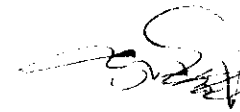
Fire Fighting Department, Jharkhand has issued a Advisory vide its memo No. - **1560**, dated **25/06/2019**.

The DFO, Wildlife **Dumra** vide letter no. **1062**, dated **20/07/2021** certified that certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

The DFO, **Seraikela** Ranchi Division vide letter no. **1075** dated **18.06.2021** certified that the distance of reserved / protected forest is more than 250 m from proposed project site.

The CO, **Ganbaria** vide Letter No. **281**, dated **30/03/2021** has mentioned that the plot nos. of the project is not recorded as "Jangle Jhari" in R.S Khatyan & Register II.

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Specific observations of the committee during appraisal are as under :

- i. Revised EMP
- ii. Traffic impact study
- iii. Revised green belt development plan.
- iv. Terrace solar plan
- v. Undertaking for
 - a. Separate STPs for residential & commercial building blocks.
 - b. Reducing power consumption through renewable energy.

The PAs have submitted the above documents & undertakings.

Based on the presentation made and information provided, the Committee decided that the proposal for "Bhagwati Heritage" of M/s Nirbhay Buildcon Private Limited, Village : Dindli, Tehsil : Gamharia, Dist. : Seraikela Kharsawan, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III along with specific conditions as follows :

- i. PAs have to implement dual plumbing system to maximize use of recycle water

13. Angara Stone Deposit of Sri Hemant Soren, Village : Angara, Thana : Angara, Thana No. 26, Dist. : Ranchi, Jharkhand (0.356 Ha).

(Proposal No. : SIA/JH/MIN/ 224382 / 2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Stone: 2,204 Cu.M. / year i.e. 6,171 Tonnes / year

Name of the consultant : M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

This is a new project which has been taken for appraisal on 16.09.2021

Project & Location Details:

Sl	Parameter	Details
1	Project Name	: Angara Stone Deposit
2	Applicant:	: Sri Hemant Soren S/o- Sri Shibu Soren B/63, Harmu Housing Colony, Thana- Angara, District- Ranchi, Jharkhand.
3	Lease Address	: In Mouza – Angara, Thana - Angara, Thana No.- 26, District - Ranchi, Jharkhand.
4	Applied Area	: Ha: 0.356 Hectares Acres: 0.88 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 26 Lakhs
7	EMP Budget	: Capital: 5.77 Lakhs Recurring: 2.54 Lakh / year



8	CSR / CER Budget	:	Rs. 0.52 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 11,044 Cu. M. Tonnes: 30,923 Tonnes
11	Mine Life	:	5 years
12	Man power	:	27
13	Water Requirement	:	5.795 KLD Dust Suppression: 3.5 KLD, Drinking: 1.08 KLD, Plantation: 1.215 KLD
14	Water Source	:	From Getalsud Dam by tankers
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Getalsud Dam is approx. 4.10 Km aerial distance away in North-East direction
18	Nearest Habitation	:	Angara village is situated approx. 1.13 Km aerial distance away in North - West direction Ranchi Town is situated approx. 22.38 Km aerial distance away in the South - West direction
19	Nearest Rail Station	:	Gangaghat Railway Station is situated approx. 3.98 Km aerial distance away in South - West direction
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, Jharkhand is situated approx. 21.77 Km aerial distance away in South - East direction.
21	Nearest Forest	:	More than 410m away from the proposed project.
22	Road & Highways	:	Road: SH-1 Road is approx. 210m away in North direction.

CO-ORDINATES

1	Latitude	:	From 23°23'44.10" N To 23°23'46.66" N
2	Longitude	:	From 85°31'16.08" E To 85°31'18.63" E

LAND DETAILS :

Khata No.	187
Plot No.	482

STATUTORY CLEARANCES :

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Ranchi, vide letter no. 615/M dated 16.06.2021.
2	CO	:	The CO, Angara, Ranchi, vide letter no. 468 (ii), dated 03.06.2021 has mentioned the plot no. of the project is not

			recorded as "Jangle Jhari" in R.S. R.S. Khatiyar & Register II.
3	DMO	:	DMO, Ranchi vide memo no. 622/M, dated 22.06.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	Division Forest Officer, Wildlife Ranchi vide letter no. 770, dated 02.09.2021 certified that the National Park & Sanctuary is not within 10 km from project and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	Division Forest Officer, Ranchi Forest Division vide letter no. 1451, dated 08.06.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Ranchi, vide letter no. 782/M, dated 27.08.2021 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On dated 07.06.2021.
8	Mine Plan Approval	:	Approved by the Assistant Mining Officer, Ranchi, vide Memo No. 106/M dated 10.07.2021

Working Details

1	Mining Method	:	Opencast Manual Mining.
2	Quarry Area	:	5 years – 0.201 Ha Life of Mine – 0.201 Ha
3	Waste Generation	:	5 years– 140 Cu.M (Gritty Soil) Life of Mine – 140 Cu.M (Gritty Soil)
4	Stripping Ratio	:	1 : 0.02
5	Working Days	:	300 Days
6	Benches: size & No	:	Size: 3m x 3m, No. - 6
7	Elevation of Mine	:	Highest RL 602m AMSL, Lowest RL 592m AMSL
8	Ground Level Elevation	:	592m AMSL
9	Ultimate Working Depth	:	582m AMSL
10	Water Table	:	565m AMSL
11	Topography of Mine	:	Gently Sloppy land.
12	Explosive Requirement	:	1.2 Tons/year
13	Diesel/Fuel requirement	:	12 KL/year (40 Litres/day)

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste (gritty soil) Generation (CuM)	Bench RL in Meters
1st	2197	6152	140	600m – 594m
2nd	2204	6171	Nil	597m – 591m
3rd	2194	6143	Nil	594m – 588m
4th	2199	6157	Nil	591m – 585m
5th	2200	6160	Nil	588m – 582m
Total	10,994	30,783	140	

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)	0.160	0.201	0.201	0.201	Water Body – 0.176 Ha Dead bench Plantation – 0.025 Ha
2	Road	0.006	Nil	Nil	Nil	
3	Green Belt Within Safety Barrier	Nil	0.155	0.155	0.155	Plantation
4	Unutilized	0.190	Nil	Nil	Nil	
	TOTAL	0.356	0.356	0.356	0.356	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.155 Ha	388 trees @ 2500 trees per Ha
2	Other Reclaimed Area (Dead Bench Plantation)	0.025 Ha	63 trees @ 2500 trees per Ha
3	Haul /Approach Road	0.042 Ha i.e. Length 210m width 2m	142 trees on both sides – 3m distance

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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

- Waste (gritty soil) Generation will be 140 Cu.M. during the life of Mine. During 1st year of mining, some extent of gritty soil will be removed and this soil will be used for road dressing.

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 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 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 shall 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.

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 Angara Stone Deposit of Sri Hemant Soren, Village : Angara, Thana : Angara, Thana no. : 26, Dist. : Ranchi, Jharkhand (0.356 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

14. Shahpur Stone Deposit of M/s Jai Maa Vindhya Vasini Stone, Village : Shahpur, Thana : Naudiha Bazar, Thana no. : 380, Dist. : Palamu, Jharkhand (1.687 Ha).

(Proposal No. : SIA/JH/MIN/ 228036 / 2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Stone: 29,729 Cu.M. / year i.e. 83,241 Tonnes / year

Name of the Consultant: M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

This is a new project which has been taken for appraisal on 16.09.2021

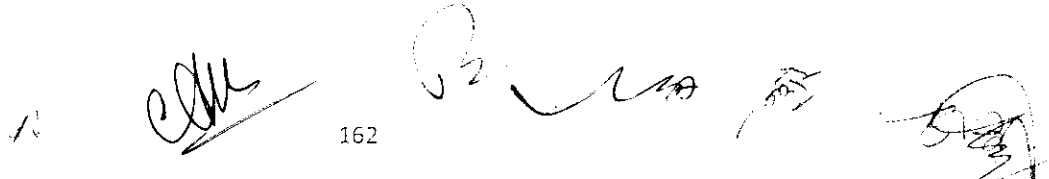
Project & Location Details:

Sl	Parameter	Details
1	Project Name	Shahpur Stone Deposit
2	Applicant:	M/s Jai Maa Vindhya Vasini Stone Partner 1): - Sri Randhir Kumar Pathak At Gayatri Mandir Road, Sudna, Post- Sudna, Thana – Daltonganj, Palamu, Jharkhand.

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			Partner 2): - Smt. Anjana Chaurasia At Namak Gola, Jay Muhalla, Ward No. – 30, Buxar, Bihar.
3	Lease Address	:	In Mouza - Shahpur, Thana -- Naudiha Bazar, Thana No. – 380, District - Palamu, Jharkhand.
4	Applied Area	:	Ha: 1.687 Hectares Acres: 4.17 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	70 Lakhs
7	EMP Budget	:	Capital: 14.93 Lakhs Recurring: 4.38 Lakh / year
8	CSR / CER Budget	:	Rs. 1.40 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 1,48,350 Cu. M. Tonnes: 4,15,381 Tonnes
11	Mine Life	:	5 years
12	Man power	:	30
13	Water Requirement	:	18.915 KLD Dust Suppression: 11.5 KLD, Drinking: 1.2 KLD, , Plantation: 6.215 KLD
14	Water Source	:	From Batane River by tankers
15	DG Set / power	:	60 KVA
16	Crusher	:	Yes over area of 0.02 Ha
17	Nearest Water Body	:	Batane River is flowing approx. 7.30 Km aerial distance away in North - west direction
18	Nearest Habitation	:	Shahpur village is situated approx. 1.48 Km aerial distance away in North - East direction Chhatarpur Town is situated approx. 14.22 Km aerial distance away in the North - West direction
19	Nearest Rail Station	:	Rajhara Railway Station is situated approx. 33.19 Km aerial distance away in South - west direction
20	Nearest Air Port	:	Gaya International Airport, Gaya, Bihar is situated approx. 81.55 Km aerial distance away in North - East direction.
21	Nearest Forest	:	More than 250m away from the proposed p. t.
22	Road & Highways	:	Approach Road: Saraidih – Shahpur - Haraiya Road is approx. 720m away in West direction. Highway: NH-98 is approx. 14.10 Km away in West direction.

CO-ORDINATES



1	Latitude	From 24°17'38.25" N	To 24°17'50.93" N
2	Longitude	From 84°18'16.68" E	To 84°18'23.02" E

LAND DETAILS :

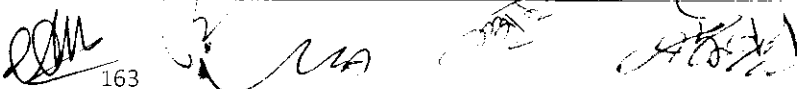
Khata No.	72
Plot Nos.	295, 297, 299, 300, 302, 304 & 306

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Palamau, Medininagar vide letter no. 766/M dated 14.07.2021.
2	CO	:	The CO, Naudiha Bazar, Palamu vide letter no. 166, dated 19.05.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar or Register II.
3	DMO	:	DMO, Palamau, Medininagar vide memo no. 779/M, dated 17.07.2021 certified that no other lease exist within 500 m radius from proposed project site & total area is less than 5 Ha.
4	DFO Wild Life	:	Deputy Director, Palamau Tiger Project, North division Medninagar vide letter no. 719, dated 01.09.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	Division Forest Officer, Medninagar Forest Division vide letter no. 1994, dated 06.07.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Palamau, Medininagar, vide letter no. 900/M, dated 19.07.21 has informed that this project is part of District Survey Report (DSR) at Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On dated 28.04.2021
8	Mine Plan Approval	:	Approved by the Additional Director, Geology, Hazaribag vide Letter No. 645/G dated 11.08.2021

Working Details :

1	Mining Method	:	Opencast Mechanized Mining.
2	Quarry Area	:	5 years ~ 0.66 Ha Life of Mine – 0.66 Ha



3	Waste Generation	:	5 years– 2982 Cu.M (Gritty Soil)	Life of Mine – Cu.M (Gritty Soil)
4	Stripping Ratio	:	1 : 0.02	
5	Working Days	:	300 Days	
6	Benches: size & No	:	Size: 6m x 6m, No. - 3	
7	Elevation of Mine	:	Highest RL 295m AMSL, Lowest RL 290m AM	
8	Ground Level Elevation	:	290m AMSL	
9	Ultimate Working Depth	:	277m AMSL	
10	Water Table	:	267m AMSL	
11	Topography of Mine	:	Sloppy land.	
12	Explosive Requirement	:	13.8 Tons/year	
13	Diesel/Fuel requirement	:	42 KL/year (140 Litres/day)	

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste (gritty soil) Generation (CuM)	Bench RL in Meters
1st	29574	82807	1166	295m – 289m
2nd	29696	83149	1396	295m – 289m
3rd	29658	83042	00	295m – 287m
4th	29677	83096	00	289m – 287m
5th	29729	83241	420	290m – 287m
Total	148334	415335	2982	

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	0.66	0.66	0.66	Quarry
2	Road	0.010	Nil	Nil	Nil	
3	Green Belt Within Safety Barrier	Nil	0.93	0.93	0.93	Plantation
4	Non	Nil	0.097	0.097	--	Plantation

	Mining Area		(Crusher 0.020 Ha)	(Plantation)		
5	Unutilized	1.677	Nil	Nil	Nil	--
	TOTAL	1.687	1.687	1.687	1.687	

ENVIRONMENT MANAGEMENT

Green Belt Development :

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.93 Ha	2325 trees @ 2500 trees per Ha
2	Non Mining Area Plantation	:	0.097 Ha	243 trees @ 2500 trees per Ha
3	Haul /Approach Road	:	0.144 Ha	482 trees on both sides – 3m distance
			i.e. Length 720m 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 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 (gritty soil) Generation will be 2982 Cu.M. during the life of Mine. The area is covered with a thin layer of gritty soil of 0.5m thickness. During quarry advancement gritty soil will be removed, at first the removal gritty soil will be temporarily dumped in the north side of the applied area. The dumping of the OB in external dump would be continue till 4th year after that the external dump and removal of gritty soil on 5th year will 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 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

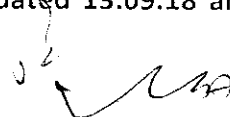
Undertaking submitted affirming:

- 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 regulations 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.

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

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12.12.18 decided that the proposal for Shahpur Stone Deposit of M/s Jai Maa Vindhyavasini Stone, Village : Shahpur, Thana : Naudiha Bazar, Thana no. : 380, Dist. : Palamu, Jharkhand (1.687 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

15. Stone Mine of Shri Chandan Kumar Gupta, Mouza : Katekowa, Sub Division : Rajmahal, Dist. : Sahebganj, Jharkhand (2.79 Ha)

(Proposal No. : SIA/JH/MIN/ 228615/ 2021).

Project Category: B2 – Application

EC Application for: Boulder Stone : 83,328 Cu.M. / year i.e. 2,24,985.60 TPA
DG Set : 60 KVA

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

Project & Location Details:

Sl	Parameter		Details
1	Project Name	:	Chandan Kumar Gupta Stone Mine Project Type – Stone Mine & Movable Crusher
2	Lessee:	:	Shri Chandan Kumar Gupta
3	Lease Address	:	Shri Chandan Kumar Gupta S/O Binod Lal Gupta Mouza : Katekowa, Sub Division : Rajmahal, Dist. : Sahebganj, Jharkhand
4	Lease Area	:	Ha: 2.79 ha Acres: 6.90 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	54.45 Lakhs
7	EMP Budget	:	Capital: 11,17,550 Lakh Recurring: 2,09,000 Lakh
8	CSR / CER Budget	:	Rs. 1.50 Lakh
9	New or Expansion	:	New Project
10	Mineable Reserves	:	Cu.M.: 8,33,283 Cu. M. Tonnes: 22,49,864.10 Tonnes
11	Mine Life	:	10 years
12	Man power	:	15
13	Water Requirement	:	23.83 KLD (Drinking:0.23 KLD, Dust Suppression:2.10 KLD, Plantation:21.5 KLD
14	Water Source	:	Water will be sourced from Bore Well at a distance of 600 metre from lease area (Plot taken on lease by applicant).

15	DG Set / power	:	60 KVA
16	Crusher	:	Movable Crusher over an area of 0.03 Ha.
17	Nearest Water Body	:	Ganga River – 10.55 km- NE
18	Nearest Habitation	:	Katekewa Village: 0.60 KM; Sahebganj – 22.77 KM
19	Nearest Rail Station	:	Taljhari Railway station – 6.88 km - NE
20	Nearest Air Port	:	Kazi Nazrul Islam Airport – 163.72 km - SW
21	Nearest Forest	:	Protected Forest, Phulbhanga - 1.20 Km
22	Road & Highways	:	Pakka Road – 0.35 Km - West, Borio-Tinpahar-Rajmahal Rd – 0.76 km - South

CO-ORDINATES :

Sl.no.	Latitude	Longitude
A	25°02'08.41" N	87°41' 45.47" E
B	25°02'13.17" N	87°41' 39.60" E
C	25° 2'16.19"N	87°41'42.27"E
D	25°02'10.55" N	87°41' 47.95" E
E	25°02'07.13" N	87°41' 46.52" E

LAND DETAILS :

1	Mouza : Katekwa	Khata No.	Plot No.
		9	45 (P)
		4	74 (P)
		1	75 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj, vide letter no. 418/M dated 16.04.2021
2	CO	:	The CO, Taljhari, Sahebganj, vide letter no. 680, dated 11.10.2019 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in Khatiyon or Register II.
3	DMO	:	DMO, Sahebganj vide memo no. 854/M, dated 17.08.2021 certified that one lease (5.40 Acre) exists within 500 m radius from proposed project site & Total lease area is 12.30 acre (less than 5 Ha).
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2034, dated 21.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed

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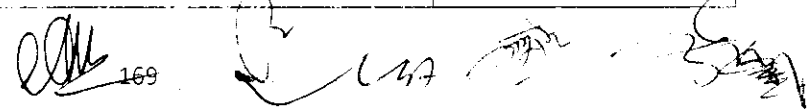
			project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Sahebganj Division vide letter no. 665, dated 11.03.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Sahebganj vide letter no. 668 / M, dated 09.07.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 12.09.2019
8	Mine Plan Approval	:	DMO, Sahibganj vide letter no. 505 dated 3.06.2021

Working Details :

1	Mining Method	:	Semi Mechanised. Wagon, Drilling & Blasting to be used	
2	Quarry Area	:	5 years – 2.20 Ha	End of Mine – 2.20 Ha
3	Waste Generation	:	5 years–Nil	Life of Mine – Nil
4	Stripping Ratio	:	1:0	
5	Working Days	:	300	
6	Benches: size & No	:	6 m x 6 m, Bench No.- 1 to 6	
7	Elevation of Mine	:	215 m AMSL	
8	Ground Level Elevation	:	175 m AMSL	
9	Ultimate Working Depth	:	179 m AMSL	
10	Water Table	:	165 m AMSL	
11	Topography of Mine	:	Undulating Terrain	
12	Explosive Requirement	:	82.8 Tons/year	
13	Diesel/Fuel requirement	:	91.8 KL/year (306 Litres/day)	

Production Details :

Year	Production of Stone	Bench RL in
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1  169

	Cubic meters	Tons	meters
1st Year	83,328	2,24,985.60	160-154
2nd Year	83,328	2,24,985.60	154-148
3rd Year	83,328	2,24,985.60	154-148
4th Year	83,328	2,24,985.60	148-142
5th Year	83,328	2,24,985.60	142-136
Total	4,16,640	11,24,928.00	Depth dur plan period 24 m

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	0.00
Road	0.00
Total area in use	0.00
Balance area unused	2.79
Total Leasehold area	2.79

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry	2.20
Movable Crusher	0.03
Road	0.008
Green Belt / Safety Zone	0.52
Garland Drain	0.016
Settling Tank	0.016
Total area in use	2.79
Total Leasehold area	2.79

Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Quarry	2.20 Plantation – 2.20 Ha.
Green Belt/ Safety Zone	0.52 (Plantation)
Infrastructure + Road + Garland Drain	0.054 (Plantation)
Settling Tank	0.016

Total area in use	2.79
Total Leasehold area	2.79

ENVIRONMENT MANAGEMENT

Green Belt Development :

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.52 ha	1300 trees @ 2500 trees per ha
2	Other Reclaimed Area (Quarry area, Road, Garland Drain, Infrastructure)	:	2.254 Ha.	5,635 trees @ 2500 trees per Ha.
3	Haul /Approach Road	:	0.35KM	234 trees on both sides – 3 m distance

- 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 Generation

Waste material will be less and the same will be utilized for internal mine road construction & berm along the approach road construction & maintenance. Hence, there will not be any dump in the lease hold area

Water Quality Management

Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2 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:

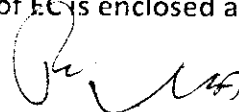
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area as per order 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.

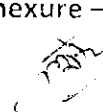
Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Stone Mine of Shri Chandan Kumar Gupta, Mouza : Katekowa, Sub Division : Rajmahal, Dist. : Sahebganj, Jharkhand (2.79 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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16. Saharpur Stone Mine of M/s Jai Maa Tara Stone Product, Mouza : Saharpur, P.O. : Benagaria, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.73 Ha).

(Proposal No. : SIA/JH/MIN/ 67289/ 2021).

Project Category: B1 – Application for TOR

EC Application for: Boulder Stone : 1,57,500 Cu.M. / year i.e. 4,25,250 TPA

DG Set : 60 KVA

Mobile Crusher (15 TPH Capacity)

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

Project & Location Details :

Sl	Parameter	Details
1	Project Name	Saharpur Stone Mine Project Type – Stone Mine & Mobile Crusher (15 TPH Capacity)
2	Lessee:	Shri Binod Prasad Bhagat
3	Lease Address	Mouza : Saharpur, P.O. : Benagaria, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.73 Ha)
4	Lease Area	Ha: 2.73 ha Acres: 6.73 Acres
5	Type of Land	Non Forest – Rayati Land
6	Project Cost	118.25 Lakhs
7	EMP Budget	Capital: NA Recurring: NA
8	CSR / CER Budget	NA
9	New or Expansion	New Project
10	Mineable Reserves	Cu.M.: 7,14,616 Cu. M. Tonnes: 19,29,463.2 Tonnes
11	Mine Life	7.34 years
12	Man power	19
13	Water Requirement	11.57 KLD (Drinking:0.285 KLD, Dust Suppression:2.28 KLD, Plantation:9 KLD
14	Water Source	<ul style="list-style-type: none"> Water will be Sourced from Brahmani River through Water Sprinkler and Water Tankers for Dust Suppression and Plantation. Water will be sourced from Water Tankers, to be purchased locally for Drinking and Domestic Consumption.
15	DG Set / power	60 KVA
16	Crusher	Yes over area of 0.04 ha
17	Nearest Water	Brahmani River 7.00 KM

	Body	
18	Nearest Habitation	: Saharpur Village: 1.29 KM; Dumka 34.16 KM
19	Nearest Rail Station	: Pinargaria 7.30 KM
20	Nearest Air Port	: Ranchi: 72 KM
21	Nearest Forest	: Protected Forest, Porpahar - 3.20 Km
22	Road & Highways	: NH 114 A – 3.25 KM; Pakka Road – 0.38 KM

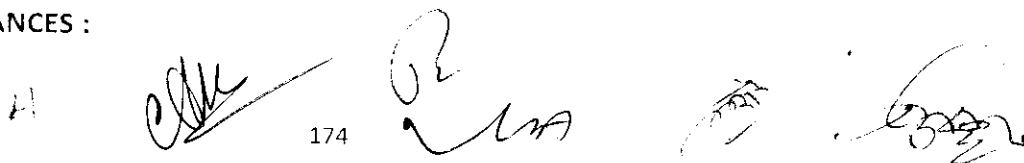
CO-ORDINATES

Geo-Coordinates		
Corner Point	Longitude	Latitude
P1	24° 11' 22.30" N	87° 34' 25.30" E
P2	24° 11' 22.09" N	87° 34' 25.97" E
P3	24° 11' 22.03" N	87° 34' 26.63" E
P4	24° 11' 21.69" N	87° 34' 27.03" E
P5	24° 11' 21.72" N	87° 34' 27.88" E
P6	24° 11' 19.72" N	87° 34' 27.99" E
P7	24° 11' 19.26" N	87° 34' 27.54" E
P8	24° 11' 16.71" N	87° 34' 27.32" E
P9	24° 11' 16.49" N	87° 34' 30.24" E
P10	24° 11' 16.65" N	87° 34' 30.45" E
P11	24° 11' 16.54" N	87° 34' 32.23" E
P12	24° 11' 15.59" N	87° 34' 32.30" E
P13	24° 11' 15.57" N	87° 34' 31.61" E
P14	24° 11' 15.13" N	87° 34' 30.94" E
P15	24° 11' 13.22" N	87° 34' 30.73" E
P16	24° 11' 13.18" N	87° 34' 28.08" E
P17	24° 11' 14.23" N	87° 34' 27.23" E
P18	24° 11' 15.28" N	87° 34' 26.62" E
P19	24° 11' 16.25" N	87° 34' 26.26" E
P20	24° 11' 16.74" N	87° 34' 25.48" E
P21	24° 11' 17.27" N	87° 34' 24.54" E
P22	24° 11' 17.97" N	87° 34' 24.04" E
P23	24° 11' 20.25" N	87° 34' 24.74" E
P24	24° 11' 21.06" N	87° 34' 24.92" E

LAND DETAILS :

1	Mouza : Saharpur	Khata No	Plot Nos.
		30	21, 24 (P)
		52	22

STATUTORY CLEARANCES :



1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Dumka vide letter no. 982/M dated 24.08.2019.
2	CO	:	The CO, Shikaripara vide letter no. 1237/R, dated 12.12.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Dumka vide memo no. 42/M, dated 04.01.2018 certified that eleven lease (total area : 72.966 Acres) exists within 500 m radius from proposed project site & Total lease area is more than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2688, dated 09.12.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Dumka Division vide letter no. 2766, dated 18.08.2017 certified that the distance of notified forest is 1192 m from proposed project site
6	DSR	:	The DC-cum-District Magistrate, Dumka vide letter no. 683 / M, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 05.02.2017
8	Mine Plan Approval	:	Deputy Directore Mines, Santhal Pargana, Dumka vide memo no. 394/DDM dated 12.09.2019

Working Details :

1	Mining Method	:	Semi Mechanised. Wagon, Drilling & Blasting to be used
2	Quarry Area	:	5 years – 1.62 Ha End of Mine – 1.62 Ha
3	Waste Generation	:	5 years–37,700 Life of Mine – 37,700 Cu.M
4	Stripping Ratio	:	1:0.02
5	Working Days	:	300
6	Bench: size & No	:	5 m x 5 m, Bench No.- 1 to 9
7	Elevation of Mine	:	269.37 m AMSL

8	Ground Level Elevation		253.37 In AMSL
9	Ultimate Working Depth	:	211.37 m AMSL
10	Water Table	:	201.37 m AMSL & also 52 m bgl
11	Topography of Mine	:	Undulating Terrain
12	Explosive Requirement	:	42.9 Tons/year
13	Diesel/Fuel requirement	:	132 KL/year (440 Litres/day)

Production Details :

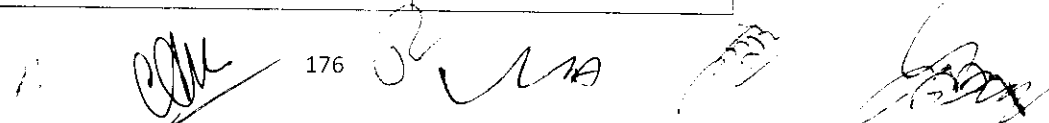
Year	Production of Stone		Over Burden (OB)	Bench RL i meters
	Cubic meters	Tons	Cum.	
1st Year	157,500	425,250	22,500	Zone A (bench 1 to 4) RL 199 – 182 metre
2nd Year	123,750	334,125	0	Zone A (Bench 5 to 7) RL 182 – 167 meters
3rd Year	97,750	263,925	15,200	Zone A (Bench 8, RL 167 – 162 meters Zone B (Bench 1 to 3) 199 – 187 metre
4th Year	72,000	194,400	0	Zone B (Bench 4 to 6) 187- 172 meters
5th Year	36,000	97,200	0	Zone B (Bench 9) 172 – 157 meters
Total	487,000	1,314,900	37,700	Depth – 42 metre

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	0.00

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Road	0.00
Total area in use	0.00
Balance area unused	2.73
Total Leasehold area	2.73

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry	1.62
Crusher	0.32
Infrastructure	0.02
Dump	0.02
Road	0.01
Green Belt / Safety Zone	0.73
Garland Drain	0.01
Total area in use	2.73
Total Leasehold area	2.73

Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Quarry	1.62 To be Converted to Water Body after reducing the depth partially
Green Belt/ Safety Zone	0.73 (Plantation)
Crusher + Office + Dump + Road + Garland Drain	0.38 (Plantation)
Post Mining Land Use	Water body 1.62 Ha. Plantation 1.11 Ha.
Total Leasehold area	2.73

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.73 ha	1825 trees @ 2500 trees per ha
2	Other Reclaimed Area	:	0.38 Ha.	950 trees @ 2500 trees per Ha.

3	Haul /Approach Road	0.38 KM	254 trees on both sides – 3 m distance
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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 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

- A total of 37,700 Cum of wastes (Over Burden) will be generated from entire Saharganj Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1st Year	22,500
2nd Year	0
3rd Year	15,200
4th Year	0
5th Year	0
Total	37,700

Disposal of Waste from the Quarry

- Over burden will be dumped in the waste dump within the mining lease area in 0.02 Ha. waste dump area inside the lease. OB will be utilized for internal mine road construction & berm along the approach road construction & 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

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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 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.

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 14, 15, 16, 17 & 18.09.2021, 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 for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II.

A. Consideration of Proposal

1. Proposed expansion of existing SMS of M/s Radhagopal Ispat LLP, Village : Konra, Barhi Industrial Area, Tehsil : Barhi, Dist. : Hazaribagh, Jharkhand.

(Proposal No. : SIA/JH/IND/66453 /2021).

Name of the consultant : Pollution & Ecology Control Services

This is a expansion project which has been taken for appraisal on 17.09.2021.

As per the minutes of surveillance assessment of NABET dated 05th March, 2021 also the scope as updated on 09th August, 2021 the above consultant is not accredited for metallurgical industries.

Hence, the project was not taken up for the consideration.

2. Proposed expansion, installed production capacity of the industrial unit will increase to ~980 MT/day (3,23,400TPA) of steel billets, metal refining (using LRF) ~50MT/batch, continuous casting (using CCM) ~50MT/hr ~950 MT/day (3,13,500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/hr) of M/s Dadijee Steel Manufacturing & Trading Pvt. Ltd., Village : Gumo, Tehsil : Koderma, Dist. : Koderma Jharkhand.

(Proposal No. : SIA/JH/IND/66658 /2021).

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

This is a expansion project which has been taken for appraisal on 17.09.2021.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed EIA & PFR the proposed project falls under item 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

Project background :

M/s Dadijee Steel Manufacturing & Trading Pvt. Ltd., Jhumri Talaiya, Koderma (Jharkhand), is an existing secondary steel based industrial unit (engaged in steel melting and casting using induction furnace) at the site.

The existing industrial unit has installed production capacity of ~90 MT/day of steel billets using MS scrap/sponge iron (DRI) and ferro-alloys as basic raw material.

Now the industrial unit is planning for capacity expansion and augmentation. In the process the industrial unit will increase its molten metal generation capacity, facility for metal refining (using LRF) and continuous casting (using CCM), and re-rolling mill (of matching capacity).

After proposed expansion, installed production capacity of the industrial unit will increase to ~980 MT/day (3,23,400TPA) of steel billets, metal refining (using LRF) ~50MT/batch, continuous casting (using CCM) ~50MT/hr ~950 MT/day (3,13,500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/hr).

The estimated cost for the plant will be Rs. 60.0 Crores (Existing: 10 Crores & Proposed: 50 Crores).

Latitude & Longitude :

Latitude	Longitude
24°25'58.952"N	85°29'12.383"E
24°26'01.031"N	85°29'12.870"E
24°26'00.186"N	85°29'16.117"E
24°25'59.407"N	85°29'20.111"E
24°25'57.881"N	85°29'20.306"E
24°25'57.816"N	85°29'18.585"E
24°25'56.809"N	85°29'18.325"E
24°25'57.329"N	85°29'16.507"E
24°25'57.978"N	85°29'16.377"E

Details of Khata no. & Plot no. of the project site :

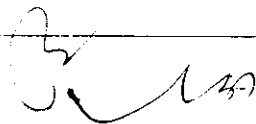

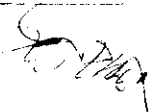
Khata No. : 153 & 180

Plot No. : 74 & 73

Project details :

S. No	Parameters	Description
1	Identification of project	Project falls under Metallurgical Industries (secondary metallurgical processing) Item 3(a) of the schedule of EIA notification of Sept 14, 2006 issued by MOEF & CC.
2	Project Proponent	M/s. Dadijee Steel Manufacturing & Trading Private Limited.


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S. No	Parameters	Description
3	Brief description of nature of the project	After proposed expansion, installed production capacity of the industrial unit will increase to ~980 MT/day (3,23,400TPA) of steel billets, metal refining (using LRF, ~50MT/batch, continuous casting (using CCM) ~50MT/hr ~950 MT/day (3,13,500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/day).
4	Salient Features of the Project	
4.1	Proposed production capacity	Proposed expansion, installed production capacity of the industrial unit will increase to ~980 MT/day (3,23,400TPA) of steel billets, metal refining (using LRF) ~50MT/batch, continuous casting (using CCM) ~50MT/hr ~950 MT/day (3,13,500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/hr).
4.2	Total Plot Area	Total Plot Area –8.06 Acres
4.3	Location	Jhumri Telaiya, Jharkhand (India)
4.4	Water requirement	Water is required to meet process cooling water make-up (~20 m3/day) and domestic requirement (~20 m3/day). The cooling water will be normal raw water for rolling mill activities and RO treated water for induction furnaces.
4.5	Source of water	Borewell
4.6	Wastewater	The domestic water consumption will result in generation of ~12 m3/day of domestic wastewater. The wastewaters will be treated and entirely reused.
4.7	Man Power	Around 300 person
4.8	Electricity/Power	The electrical power requirement will increase to ~24000 kVA. One DG set of 500 kVA already installed (as per check-

S. No	Parameters	Description
	requirement	up).
4.9	Alternative site	The proposed addition will be established in the existing plant premises only.
4.10	Land form, Land use and land ownership	Private land, owned by M/s. Dadijee Steel Manufacturing & Trading Private Limited

Salient feature of the plant :

S.No.	Particulars	Existing	Proposed expansion	Total
1.	Unit processes/ machinery	Induction furnace (10 MT/heat) Required utilities	Induction furnaces (100 MT/heat)* Ladle refining furnace (LRF) (~50MT/batch) Continuous casting (con cast) machine (50 T/hr) Reheating furnace (20 MT/heat) Rerolling mill (50MT/hr) Slag crusher Required utilities(40MT/hr)	
2.	Gross melting capacity	~90 MT/day		~980 MT/day
3.	Installed production capacity	~90MT/day (steel ingots/billets)		~980 MT/day (billets) & ~950 MT/day

				(steel rolled sections)
4.	Fixed capital investment (Rs)	10 Cr	50 Cr	60 Cr
5.	Electrical power requirement	~6.5MVA	~17.5MVA	~24MVA
6.	Raw material requirement (externally sourced/indigenous) Source – TATA steel long products limited Saraikela Kharsawan Jharkahnd Mode of Transportation- By Road			
	• Sponge iron, Pig iron/ MS scrap	~129 MT/day	~1257MT/day	~1386 MT/day
	• Ferro-alloys	~1 MT/day	~13 MT/day	~14 MT/day
	• Ingots/billets (Only for rolling)	NIL	~500 MT/day	~500 MT/day
7.	Total land area	~ 12140.6 m ²	~ 21714 m ²	~33854 m ²
8.	Manpower requirement	~80	~220	~300
9.	Process water requirement	~20 m ³ /day	~60 m ³ /day	~80 m ³ /day
10.	Process wastewater generation	~2 m ³ /day	~08 m ³ /day	~10 m ³ /day
11.	Domestic water requirement	~4 m ³ /day	~16 m ³ /day	~20 m ³ /day
12.	Domestic wastewater generation	~3 m ³ /day	~09 m ³ /day	~12 m ³ /day
13.	Solid waste generation Slag Mill scale	~35 MT/day NIL	~425 MT/day ~10 MT/day	~460 MT/day ~10 MT/day
14.	Hazardous waste APCD dust (35.1)	~300 kg/day ~100 kg/year	~2700kg/day ~400kg/day	~3000 kg/day ~500 kg/year

	Waste oil/lubricant (5.1)			
15	APCD- Bag-House Filter	01	02	03
16	Fuel	HSD- DG sets Electricity- Induction furnace	HSD Electricity, Oxygen- LRF & Coal- Reheating furnace (~70 kg/tunes)	

Employment details :

Existing	Proposed	Total
~80	~220	~300

Site analysis :

The Plant site is located at Jhumri Telaiya, Jharkhand (India). The Project is located near to telaiya town of Jharkhand, it is well connected to Gajhanndi Road at a distance of approx. 170 m. which further connects to NH 31 in south direction.

The site is connected by road and railways. The neighboring city Koderma located about 11 km away from project site. The nearest railway station is Koderma Railway station about 13 km in ENE direction. The Nearest Airport is Gaya International Airport about 93 km away from project site.

Hazardous Waste & Solid Waste Management :

Hazardous waste will include;

- Sludges from air pollution control devices @3000 kg/day (Category 35.1 of Schedule-I) – the waste will be stored on-site in HDPE bags, inside a lined and covered room before being disposed through the State's common hazardous waste disposal facility.
- Waste/used oil/lubricant @500 kg/annum (Category 5.1 of Schedule-I) – the waste will be stored on-site in a covered room before being disposed through authorized recyclers.

Solid waste will include;

- Slag @~420 MT/day – reusable as building material (especially in road construction).
- Mill scale @10 MT/day – the waste has commercial worth and will be sold.

STATUTORY CLEARANCES :

1	CO	:	The CO, Koderma vide letter no. 107, dated 27.09.2019 has mentioned the plot nos. of the
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			project is not recorded as "Jangle Jhari" in I.C. Khatiyon.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1583, dated 17.08.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	DFO Forest Distance	:	DFO, Koderma Division vide letter no. 2608, Dated 08.07.2019 certified that the distance of notified forest is 280 m from proposed project site.

The project cost at the time of application was Rs. 22 Crores. Subsequently, the project cost has been revised to 60 Crores by PAs. Accordingly, PA's have been directed to deposit the difference amount of scrutiny fee to SEIAA before issue of ToR.

Specific observations of the committee during appraisal are as under :

- The PAs were asked to submit self certified compliance report of CTO.
- Application copy submitted to CGWA for drawal of ground water.
- Revised lay out plan.
- Environmental Monitoring test reports
- Details of LRF process.

The PAs have submitted the above documents.

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 14, 15, 16, 17 & 18.09.2021, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV and also to conduct public hearing as per EIA notification, 2006.

B. Matter referred by SEIAA

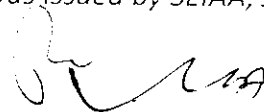
- Correction in earlier EC issued by SEIAA vide letter no. 68, dated 15.07.2021. M/s Mongia Steel Ltd.

The PA's vide letter no. MSL/ 2021-22/EC/79 dated 18.08.2021 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2020-21/ 2164 /2020/68, dated 15.07.2021 with regard to the following :

The proposed expansion project of M/s Mongia Steel Limited is located at Mouza Dandidih (Burhiadih), District Giridih, Jharkhand initially applied in the SEIAA/SEAC, Jharkhand on 03.09.2019 for obtaining Terms of Reference (ToR) as per EIA Notification, 2006. The State Expert Appraisal Committee, Jharkhand deliberated the project during its 78th meeting held on 19th September, 2019 and SEIAA, Jharkhand has approved the ToRs in its meeting held on 25th September 2019. TOR for the project was issued by SEIAA, Jharkhand vide letter

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545, date 09.10.2019. The final EIA / EMP submitted by PP to SEIAA on 17.06.2021 and which was forwarded to SEAC on 18.06.2021.

The company was set up in the year 1996 initially, after obtaining NOC from Bihar State Pollution Control Board on 18.07.1996 for setting up of steel plant for production of 50 TPD Billets and 10 TPD TMT Bars. In the year 2011, the company changed its name from Mongia Hi-Tech Pvt. Ltd to Mongia Steel Limited after necessary amendment in the Registrar of Companies (ROC). Further expansion was carried out after obtaining Environment Clearance from SEIAA, Jharkhand vide letter No. EC/SEIAA/2014-2015/569/2014/310 dated 13.12.2018 and subsequent CTE granted by JSPCB vide No JSPCB/HO/RNC/CTE-3579450/2019/294 dated 01.05.2019 for production of 240 TPD TMT Bars and 60 TPD Pipes & shutter strips.

The proposed expansion project of Mongia Steel Limited is envisaged for capacity expansion for production of TMT Bars from 72,000 TPA to 277,200 TPA and Pipes, shutter strips, angles, channels from 18000 TPA to 99000 TPA by installing additional facilities of 2x15 T and 3x20 T Induction furnace with CCM and 600 TPD Rolling mill. The existing unit of Strip mill will be enhanced in capacity from 60 to 300 TPD. The existing Induction furnace of 2x15 Tons and TMT Bar Mill of 240 TPD will continue to operate along with proposed units. The total working days will be increased from 300 to 330 days. Additionally, 66000 TPA capacity Slag Crusher unit shall also be installed. The proposed capacity for different products for site are as below:

Final configuration of production capacity – after expansion

Plant	Existing			Proposed (Total after the proposed expansion)		
	Unit	Days of Operation	Capacity TPA	Unit	Days of Operation	Capacity TPA
Steel Melting Shop Induction Furnace with Continuous Casting Machine (CCM)	2x15 Ton	300	90000	2x15 Ton (Existing) 2x15 Ton 3x20 Ton	330	396000
Producer Gas plant	1	300	9,000 Nm ³ /hr-	No Producer Gas Plant (Existing unit to be dismantled and removed)		
Reheating Furnace	1x30 TPH	300	90000	No Re-heating Furnace unit (Existing unit to be dismantled and removed)		
Rolling Mill TMT Bar Mill – 1	240 TPD	300	72000	240 TPD	330	79,200
TMT Bar Mill –	--	--	--	600 TPD	330	198,000

Plant	Existing			Proposed (Total after the proposed expansion)		
	Unit	Days of Operation	Capacity TPA	Unit	Days of Operation	Capacity TPA
2						
Strips Mill (Pipes, Shutter strips, angles, Channels etc)	60 TPD	300	18000	300 TPD	330	99,000
Slag Crusher Unit	--	--	--	2x100 TPD	330	66000 (Metal Recovery -- 2500)

No additional land shall be acquired for the project and the entire project shall be installed within existing plant area of 12.67 ha. No forestland is involved. It has been reported that no water body/ water body exist at the project site and modification/diversion in the existing natural drainage pattern at any stage has not been proposed.

The topography of the area is Gently undulating and reported to lies between 24.15722 to 23.16083 Latitude and 86.32430 to 86.32861 E Longitude in Survey of India Topo sheet 72 L/4 & 72 L/8 at an elevation of 312 m AMSL. The ground water table is reported range between 4.82 to 6.21 mbgl during the post-monsoon season and 8.20 to 9.80 ml during the pre-monsoon season.

The process of project showing the basic raw material used and the various processes involved to produce the final output, waste generated in process.

Basic Raw Material Used

Raw Materials	Total Raw materials required After Expansion	Storage	Source	Transportation by Road (km)
Induction Furnace (Total after expansion: 396,000 TPA)				
Sponge Iron	316,800 TPA	Shed	Local Plants in Giridih through Road	5 km
Pig Iron	99,000 TPA	Shed		5 km
Scrap	47,520 TPA	Shed	In-house & nearby plants through Road	250 km
Ferro Alloys (Si/Mn/Fe/Si)	792 TPA	Drums	Local Plants in Giridih through Road	110 km

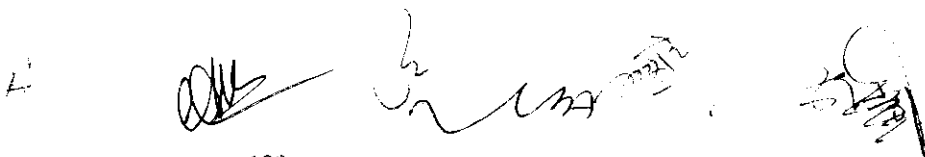
Total	464,112	-	-	-
Billet Caster (Total after expansion: 388,235 TPA)				
Liquid Steel	396,000	-	In house	-
Rolling Mill – TMT Bars (Total after expansion: 277,200 TPA)				
Hot Billets	282,720	-	In-house - Hot Billets direct charging	-
Strips Mill- Shutter strips, channels etc. (Total after expansion: 99,000 TPA)				
Hot Billets	100,800	-	In-house - Hot Billets direct charging	-

Process involved

TMT bars and steel Strips production through Induction Furnace, Billet Caster, Rolling Mill and Strip Mill. Slag Crushing plant of 2x100 TPD is also proposed to be installed for metal recovery of the slag.

Waste Generated in the proposed project

Units	Solid Wastes	Total Qty In TPA	Disposal practice
Induction Furnace	Slag	28380	After Metal extraction of slag it will be supplied to our sister concern M/s Santpuria Alloys Pvt. Ltd. unit II for fly ash bricks manufacturing.
TMT Bar Mill & Strips Mill	Mill Scale	5260	Recycled in-house along with scrap in the induction furnace.
Bag Filter Dust from process	Dust from process	2850	Partly recycled (metal content). Rest supplied to our sister concern M/s Santpuria Alloys Pvt Ltd. unit II for fly ash bricks manufacturing.



The targeted saleable capacities of TMT Bars and Steel Strips (Shutter Strip, Channel Pipes, angles) are 277200 and 99000 TPA respectively. The raw material transportation will be done through road only.

The water requirement of the project is estimated as 120 m³ /day requirement to be obtained through Ground water. The permission for drawl of water will be obtained from CGWA.

The power requirement of the project is estimated 40 MVA out of which shall be supplied through Damodar Valley Corporation. Existing power demand is 18 MVA.

Baseline Environmental Studies were conducted during Winter Season i.e. from 01.12.2019 to 29.02.2020. Ambient air quality monitoring has been carried out at 8 locations during study period indicates: PM₁₀ (40.8 to 82.1 µg/m³), PM_{2.5} (18.0 to 49.8 µg/m³), SO₂ (8.1 to 26.9 µg/m³) and NO_x (11.6 to 39.4 µg/m³). The results of the modeling study indicate that the maximum increase of GLC for the proposed project is 1.46 µg/m³ with respect to PM₁₀, 0.61 µg/m³ with respect to PM_{2.5}, 0.58 µg/m³ with respect to SO₂ and 0.44 µg/m³ with respect to the NO_x.

Ground water quality has been monitored in 8 locations in the study area and analyzed. pH: 7.15 to 8.01, Total Hardness: 185 to 235.1 mg/l, Chlorides: 50 to 61 mg/l, Fluoride: 0.22 to 0.38 mg/l. Heavy metals are within the limits. Surface water samples were analyzed from 8 locations. pH: 7.36 to 7.72, DO: 4.80 to 5.96 mg/l, BOD: 6.0 to 13.0 mg/l and COD from 18 to 41 mg/l.

Noise levels are in the range of 47.62 to 71.60 dB (A) for day time and 38.10 to 67.00 dB (A) for night time. No R&R is involved as no land has been acquired for the project.

It has been reported that the latest Consent to Operate from the Jharkhand State Pollution Control Board was obtained vide Lr. No. JSPCB/HO/RNC/CTO-8002611/2020/1612 dated 30.09.2020 and consent is valid up to 30.06.2021.

Public hearing is a very significant part of the process of public participation envisaged under guidelines issued by MoEF&CC, Government of India. It facilitates involvement of all the stake holders of the project which is essential for ensuring smooth running of project and benefitting all section of society in the process of economic development of the region. The public hearing for Mongia Steel Limited is exempted as per ToR issued by SPAA, Jharkhand, Since the Public hearing was conducted on 26.03.2017 which is below the limit as per MoEFCC OM dated 29.08.2017. An amount of Rs 68.5 Lakhs (1% of Project cost) has been earmarked for CER based on public hearing / Socio-economic issues.

The capital cost of the proposed project is Rs 68.48 Crores and the capital cost for environmental management is proposed as Rs 208 Lakhs. The annual recurring cost towards the environmental management is proposed as Rs 30.50 Lakhs/year. An amount of Rs 68.5 Lakhs (1% of Project cost) has been earmarked for CER based on previous public hearing issues and need based assessment. The employment generation from the proposed project of expansion is 172.

Green Belt will be developed over 33% of the plant area. Indigenous trees will be planted in 4.18 Ha. out of the total area of 12.67 Ha. Existing green belt area is 0.433 Ha and about 985 No. of trees are planted in the area. An additional land of 3.64 Ha. has also been

developed as greenbelt with around 4000 trees planted. Tree density of 1600 trees per hectare with local board leaf specification will be planted in future after expansion. A 10 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 1600 trees per hectare.

The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.

The SEAC recommends to issue the corrected EC as stated above and rest other terms & conditions mentioned in EC letter no. EC/SEIAA/2020-21/2164/2020/68, dated 15.07.2021 shall remain the same.

- ii. Armai Stone Mine of Sri Manish Kumar Lal, Village : Dumardih (Armai), Teshil + Dist. : Gumla, Jharkhand (2.430 Ha).

The Project Authorities vide email dated 17.09.2021 requested to defer appraisal of the proposal. The Committee considered the request and accepted the same.

- iii. Letter no. PVUN/Township/1, dated 07.09.2021 from General Manager, PVUNL, Patratu, Ramgarh.
- iv. Proposed Rehabilitation & Resettlement Package for HEC Displaced Persons of M/s Greater Ranchi Development Agency Ltd. at Site 1, HEC area, Vill. : Aani, Dhurwa, Ranchi.
- v. Bankuchia Stone Deposit of M/s K.K. Builders Pvt. Ltd., Village : Bankuchia, Thana : Patamda, Dist. : East Singhbhum, Jharkhand (11.74 Ha).

(Proposal No. : SIA/JH/ MIN/63125/2017)

Khokha Sand Mining Project of M/s Ganga Kaveri Construction Pvt. Ltd. at Village : Khokha, Dist. : Garhwa, Jharkhand (23.00 Ha).

(Proposal No. : SIA/JH/ MIN/43682/2019)

- vii. Bhartidih Sand Mining of M/s JSMDCLtd. at Village – Bhartidih, P.S. – Devipur, Dist – Deoghar (4.65 Ha)

(Proposal No. : SIA/JH/MIN/34840/2019)

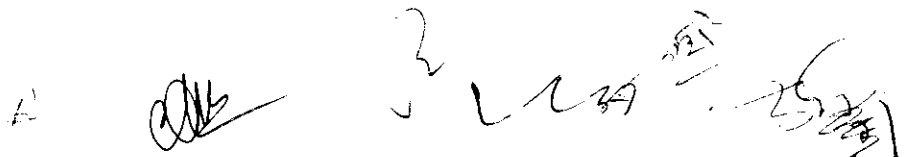
- viii. Dindli Sand Mining Project on Kharkai River of M/s Amit Trading Corporation at Vill.- Dindli, Adityapur, Dist. : Saraikel-Kharsawan, Jharkhand (6.07 Ha).

(Proposal No. : SIA/JH/ MIN/63041/2017)

Expansion of Cement Grinding Unit from 4.6 to 6.6 MTPA for M/s Lafarge India Ltd., Jojobera Cement Plant, Jojobera, East Singhbhum, Jharkhand.

(Proposal No. : SIA/JH/ IND/18532/2017)

The proposal mentioned above (from Sl. no. iii to ix) will be taken up for internal discussion in the next meeting.



A. Matter referred by SEIAA for withdrawal of certain application under ToR / EC category.

The SEIAA has forwarded the list of various proposal applied under ToR / EC category for delisting.

LIST OF PROJECT FOR WITHDRAWAL OF EC APPLICATION

Sl. No.	Proposals No.	Projects Name	Remarks
1.	SIA/JH/NCP/61243/2016	Ashiana Ananda Of ASHIANA HOUSING LTD	Project Proposer has made Request for Withdrawal of application.
2.	SIA/JH/MIN/61595/2017	Chapandey Stone Mine, 2.56 Ha Of MS R P SHARMA AND SONS	Do
3.	SIA/JH/MIN/18399/2013	-1 Of Jharkhand State Mineral Development Corporation Limited	Do
4.	SIA/JH/MIN/18400/2013	-1 Of Jharkhand State Mineral Development Corporation Limited	Do
5.	SIA/JH/MIN/67572/2017	M/S Mining Project Of ABC CONSULTANT	Do
6.	SIA/JH/MIN/73153/2018	Dudhania Sand Mining Project Of SHRI AJAY KUMAR RAI	Do
7.	SIA/JH/MIN/74896/2018	SHERUA SAND GHAT Of Jharkhand State Mineral Development Corporation Limited	Do
8.	SIA/JH/MIN/60874/2016	ASTHA STONE WORKS (PATNIBONA STONE MINE, 15.00 Ac) Of MS CRYSTAL CONSULTANTS	Do
9.	SIA/JH/MIN/60875/2016	TAMANNA STONE WORKS (Marikuti Stone Mine, 13.31 Ac) Of MS CRYSTAL CONSULTANTS	Do
10.	SIA/JH/MIN/60876/2016	BLACK STONE WORKS (Deshpokharia & Amjhor Stone Mine,	Do

		16.93 Ac) Of MS CRYSTAL CONSULTANTS	
11.	SIA/JH/MIN/34691/2015	DUMBO SAND MINE (PROP ANIL ORAON) OF MS CRYSTAL CONSULTANTS	Do
12.	SIA/JH/MIN/32847/2015	CHAPANDEY STONE MINE (M/S ALPHA MINING CORPORATION) OF MS CRYSTAL CONSULTANTS	Do
13.	SIA/JH/MIN/31962/2015	Golpahari Stone Mine Of MS CRYSTAL CONSULTANTS	Do
14.	SIA/JH/MIN/31963/2015	Golpahari Stone Mine Of MS CRYSTAL CONSULTANTS	Do
15.	SIA/JH/MIN/78335/2018	DEWARIYA SAND GHAT Of Jharkhand State Mineral Development Corporation Limited	Do
16.	SIA/JH/MIN/78843/2018	Paharpur Sarkand river sand mines, vill. Paharpur Sarkand, Mouza - 632 P.S. Deoghar, Dist: Deoghar, Jharkhand over an area of 53.25 Ha Of JHARKHAND STATE MINERAL DEVELOPMENT CORPORATION	Do
17.	SIA/JH/MIN/78909/2018	Pasai to Danre Confluence Sand Mine Of JHARKHAND STATE MINERALS DEVELOPMENT CORPORATION LTD.	Do
18.	SIA/JH/NCP/79598/2018	Shrachi Greens Project, Tata Nagar, Jharkhand Of SHRACHI REALTY PVT. LTD.	Do
19.	SIA/JH/MIN/82529/2018	M/s Chanduka Minerals Of MS CHANDUKA MINERALS	Do
20.	SIA/JH/MIN/92491/2019	Budhachanch Stone Mine (Dilip Buildcon	Do

		Ltd) Of DILIP BUILDCON LTD. BUDHACHANCH STONE MINE	
21.	SIA/JH/MIN/92514/2019	Atkadih Stone Mine (Dilip Buildcon Ltd.) Of DILIP BUILDCON LTD. ATKADIH STONE MINE	Do
22.	SIA/JH/MIN/79087/2018	PAHARPUR SARKAND RIVER SAND MINES, VILL. PAHARPUR SARKAND, MOUZA - 632 P.S. DEOGHAR, DIST: DEOGHAR, JHARKHAND LEASE AREA OF 5.25 HA Of JHARKHAND STATE MINERAL DEVELOPMENT CORPORATION	Do
23.	SIA/JH/MIN/93699/2019	M/s Vinod Kumar Jain (Stone Mine) Of MS CRYSTAL CONSULTANTS	Do
24.	SIA/JH/MIN/67767/2017	Govindpur Balu Ghat Mining Project Of BINDHYAVASINI COMMERCIAL SERVICES PVT. LTD	Do
25.	SIA/JH/MIN/67168/2017	Sukhjoda Sand Mine Of SRI RAJAN PRASAD	Do
26.	SIA/JH/MIN/32660/2019	-1 Of MS HARSHRAJ MINING LLP	Do
27.	SIA/JH/MIN/34213/2017	Loharsi Stone Mine Project Of MS SANTOSH CONSTRUCTION	Do
28.	SIA/JH/MIN/35736/2009	M/s J.S.M.D.C.Ltd Of M/s J.S.M.D.C.Ltd	Do
29.	SIA/JH/MIN/33941/2019	Mayapur Stone Of MAYAPUR STONE MINE DOLERITE	Do
30.	SIA/JH/MIN/37828/2019	Mandramo Stone Mine Of MS BABA STONE	Do
31.	SIA/JH/MIN/37943/2019	Chino Stone Mine Of DILIP BUILDCON LIMITED CHINO STONE MINE	Do
32.	SIA/JH/MIN/38167/2019	Mandramo Stone Mine Of MS BABA STONE	Do

33.	SIA/JH/MIN/38682/2019	Ghujadih Stone Mine Of RANU BAGARIA	Do
34.	SIA/JH/MIN/38868/2019	Sidhpahari Stone Mine Of RAM SEVAK YADAV	Do
35.	SIA/JH/MIN/74903/2018	sherua sand ghat Of Jharkhand State Mineral Development Corporation Limited	Do
36.	SIA/JH/MIN/42761/2019	Gurha Stone Deposit Of SURESH KUMAR JHANJHRI	Do
37.	SIA/JH/MIN/41005/2019	Kulbhangga Stone Deposit Of MAA DURGA SAHIBGANJ	Do
38.	SIA/JH/MIN/44400/2019	Chhinmastika Stone mine Of M/S CHHINMASTIKA STONE MINERALS	Do
39.	SIA/JH/MIN/44716/2019	SARSOT STONE MINE Of M/S RAJA STONE WORKS	Do
40.	SIA/JH/MIN/40925/2019	CHANDPUR STONE MINE Of CHANDPUR STONE MINE	Do
41.	SIA/JH/MIN/149721/2020	Khairidih Stone Mine. Of MS RAJ LAKCHMI MINERALS	Do
42.	SIA/JH/MIN/161902/2020	Paharpur Stone Mine. Of shri MANOJ KUMAR MAHATO	Do

LIST OF PROJECT FOR WITHDRAWAL OF ToR APPLICATION

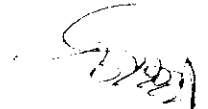
Sl. No.	Proposals No.	Projects Name	Remarks
1.	SIA/JH/MIS/11197/2016	RANCHI MSW PVT. LTD. Of RANCHIMSW PRIVATE LIMITED	Project Proponent has made request for withdrawal for application.
2.	SIA/JH/IND/18748/2017	Balmukund Sponge & Iron Pvt. Ltd. Of BALMUKUND SPONGE AND IRON PRIVATE LIMITED	Do
3.	SIA/JH/MIN/26290/2018	Jyoti Pahari Kyanite Mine	Do

		Of Jharkhand State Mineral Development Corporation Limited	
4.	SIA/JH/MIN/26348/2018	Surjabasa & Bingtopang Limestone Mining Project Proposed By: M/s Narsinh Harji area 16.70 Of MS NARSINH HARJI	Do
5.	SIA/JH/IND2/20167/2017	Proposed HPC LPG Bottling Plant at Village- Konra, thana no-72, Block-Barhi Dist-Hazaribag, Jharkhand Of HINDUSTAN PETROLEUM CORPORATION LTD.	Do
6.	SIA/JH/MIS/21685/2018	Common Effluent Treatment Plant Of CRYSTAL CONSULTANTS	Do
7.	SIA/JH/MIN/21975/2018	Dumarkunda Balu Ghat Over Brakar River Of SHANKAR COAL TRANSPORT AGENCY	Do
8.	SIA/JH/MIN/24062/2018	CHITRAO STONE MINE. Of MAHESH YADAV	Do
9.	SIA/JH/MIN/24169/2018	CHITRAO STONE MINE. Of MAHESH YADAV	Do
10.	SIA/JH/MIN/24876/2018	Makrapahari Stone Mine Of TUNDU STONE WORKS	Do
11.	SIA/JH/MIS/21031/2017	Integrated Municipal Solid Waste Management Facility for Ranchi Municipal Corporation. Of RANCHI MSW PVT LTD	D
12.	SIA/JH/MIN/21438/2017	BALU/SAND MINING DUMARKUNDA BALU GHAT OVER BRAKAR RIVER, DHANBAD. Of SHANKAR COAL TRANSPORT AGENCY	Do
13.	SIA/JH/MIS/25997/2018	Proposed Common Effluent Treatment Plant(CETP) with	Do

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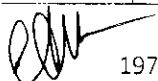
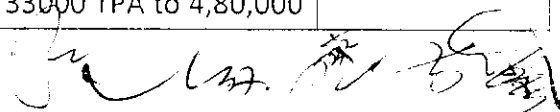






		Food Park Central Processing Centre at Village Bingaon, Block Karra, District khunti (Jharkhand) by M/S Agronomics Food Park Private Limited. Of AGRONOMICS	
14.	SIA/JH/MIN/28371/2018	Surjabasa & Bingtopang Limestone Mining Project. Of NARSINH HARJI	Do
15.	SIA/JH/MIN/30891/2019	Atkadih Stone Mine (Dilip Builcon Ltd.) Of DILIP BUILDCON LTD. ATKADIH STONE MINE	Do
16.	SIA/JH/MIN/30889/2019	Budhachanch Stone Mine. Of DILIP BUILDCON LTD. BUDHACHANCH STONE MINE	Do
17.	SIA/JH/MIN/30973/2019	M/s Vinod Kumar Jain (Stone Mine) Of MS CRYSTAL CONSULTANTS	Do
20.	SIA/JH/MIN/31038/2019	M/s Vinod Kumar Jain (Kumhari Stone Mine) Of MS CRYSTAL CONSULTANTS	Do
21.	SIA/JH/MIN/26292/2018	Rajbandh Stone Quarry Of M/S MANDHAN MINERALS CORPORATION	Do
22.	SIA/JH/MIN/37187/2019	Rehra Stone Mine Of MUKESH NATHUNI	Do
23.	SIA/JH/MIN/37913/2019	Sherua Sand Ghat Of Jharkhand State Mineral Development Corporation Limited	Do
24.	SIA/JH/MIN/40330/2019	Belpahari Stone Mines Of SOUMITRO	Do
25.	SIA/JH/MIS/28972/2018	Integrated Municipal Solid Waste Management Project by Jhumri Telaiya Nagar parishad for jhumritelaiya & Koderma. Of JHUMRI TELAIYA NAGAR PARISHAD	Do
26.	SIA/JH/IND/28308/2018	Enhancement in production from 33000 TPA to 4,80,000	Do


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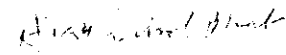




		TPA of M S Billet & TMT Bars by installation of five nos of Induction furnace and one rolling mill Of RADHA CASTING & METALIK (P) LTD.
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The Committee hereby recommends for the delisting the same.

The meeting concluded with thanks to all present.


(Dr. Raju Kumar)
Member


(Dr. Ajay Govind Bhatt)
Member


(Niranjan Lal Agarwalla)
Member


(Dr. Kirti Avishek)
Member


(Ashok Kumar Dubey)
Secretary


(Ashok Kumar Singh)
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. 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.
- iii. 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.

- iv. 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.
- v. 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.
- vi. 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.
- vii. 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.
- viii. The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- ix. 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.
- x. 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 Project wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

- xi. 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.
- xii. 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.
- xiii. 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.
- xiv. 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.
- xv. 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 other 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.

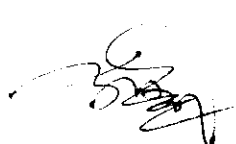
II. Air quality monitoring and preservation

- 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/PCB, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- ii. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The dust emissions from all 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


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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

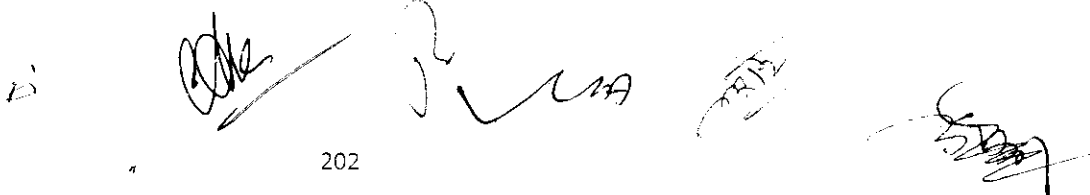
Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six month basis.

- 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 reduction in 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. Habitation have right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- iii. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining Plan

The bottom of the page contains several handwritten signatures and stamps. There are four distinct signatures in black ink, and a circular stamp with some illegible text inside. The signatures appear to be from different individuals, possibly representing the project proponent or regulatory authorities.

- 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 of 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 plants to the microclimate. The gullies formed on slopes should be adequately taken care 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 runoff 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 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 of Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department of Transport 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

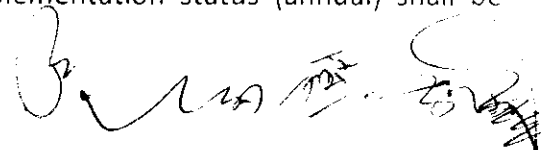
Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.

- 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.

V.1. 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.


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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 quarterly 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 Ophthalmological Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- iv. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line

X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.

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

X. Corporate Environment Responsibility (CER)

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

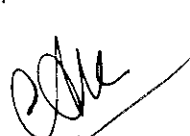
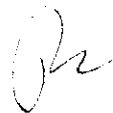
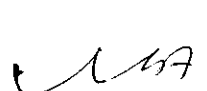

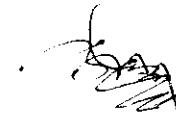
Miscellaneous

- 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


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- ii. The Project Authorities should inform to the Regional Office regarding date of final 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 does not increase production rate and alter lease area during the validity of Environmental Clearance.

A     

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, shall 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 periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

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

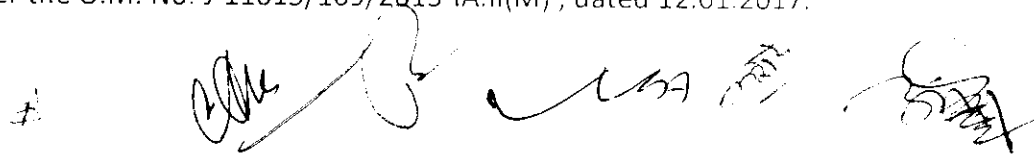
- xxv. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- xxvi. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any,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

- xxxiv. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- xxxv. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- xxxvi. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- xxxvii. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- xxx. 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.
- xliii. 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.

Besides the above, the below mentioned general points are also to be followed :-

- a) Executive Summary of the EIA/EMP Report
- b) All documents to be properly referenced with index and continuous page numbering.
- c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.

- e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly defining 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 would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.



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, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- 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 for drawl of ground water / surface water required for the project from the competent authority.
- vii. 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.
- viii. 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.
- ix. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi. 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.
- xii. 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.

- xiii. 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.
- xiv. 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.
- xv. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvi. Water during construction phase should be preferred from Municipal supply.
- xvii. Unskilled construction labourers shall be recruited from the local areas.
- xviii. 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.
- xix. 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.
- xx. Rest room facilities shall be provided for service population.
- xxi. 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.
- xxii. 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.
- xxiii. Project proponent shall install Wind Augmentation and Air Purifying Unit (4 Units at one location in Ranchi) on Pilot basis to deal with particulate matter pollution.

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 Domestic 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 1986. The height of stack of DG sets should be equal to the height needed to 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.

- 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 gravity 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 should be 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 all 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. 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.

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.

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-law 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, including 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.
- 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, 2016. 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 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 for 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.

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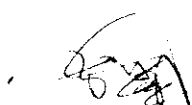
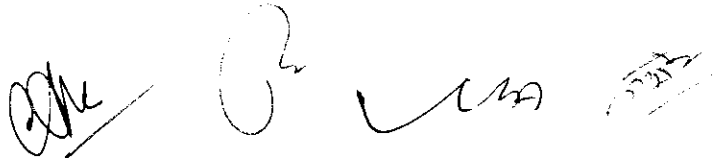
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility 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.
- 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 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.

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

A. Standard Terms of Reference

1. Executive Summary

Introduction

- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent
- iii. Importance and benefits of the project

3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- v. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing / existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

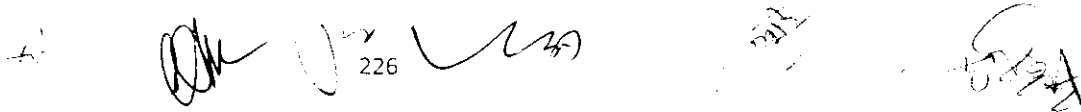
4. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.

- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 5 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5. Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha, etc)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.



6. Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7. Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment.

Characteristics of untreated and treated effluent to meet the prescribed standards discharge under E(P) Rules.

- v. Details of stack emission and action plan for control of emissions to meet stand.
- vi. Measures for fugitive emission control.
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle / reuse / recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

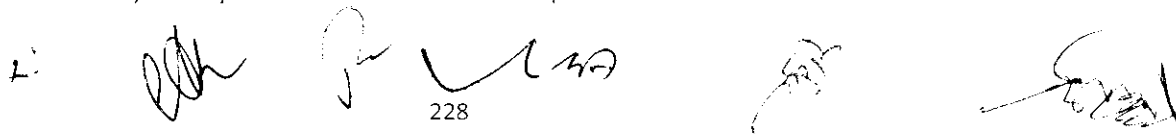
8. Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, etc. etc. etc. placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9. Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

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- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
 - iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
 - iv. Does the company have 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? This reporting mechanism shall be detailed in the EIA report
10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
13. A tabular chart with index for point wise compliance of above TOR.

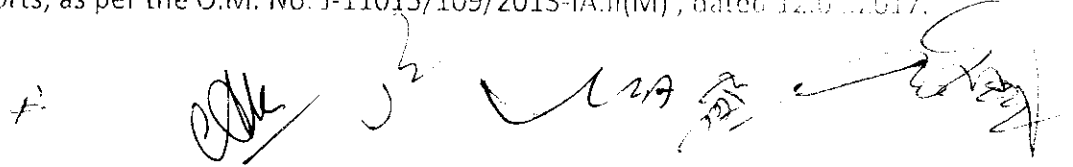
B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS)

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of opacity meters with recording with proper calibration system
4. Details on toxic metals including mercury, arsenic and fluoride emissions
5. Details on stack height requirement for integrated steel
6. Details on ash disposal and management -Non-ferrous metal
7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
8. Raw materials substitution or elimination
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation

10. Details on Holding and de-gassing of molten metal from primary and secondary aluminium materials pre-treatment, and from melting and smelting of secondary aluminium
11. Details on solvent recycling
12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coking oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water

C. Other

1. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.
2. The prescribed TORs would be valid for a period of three years for submission of the W/EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.

A series of handwritten signatures and initials in black ink, including a large signature on the right and several smaller ones to the left.