

MINUTES OF THE 95TH MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 15TH, 16TH, 17TH, 18TH, 19TH, 20TH, 21ST and 22ND JULY, 2022.

The 95th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 15th, 16th, 17th, 18th, 19th, 20th, 21st and 22nd July, 2022 under the Chairmanship of Shri Ashok Kumar Singh, IFS (Retd.) in the Conference Room at SEAC, Ranchi.

The following members were present:

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

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 10th, 11th, 12th, 13th and 14th May, 2022. 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 : July 15th, 2022 [Friday]

A. Matter referred by SEIAA

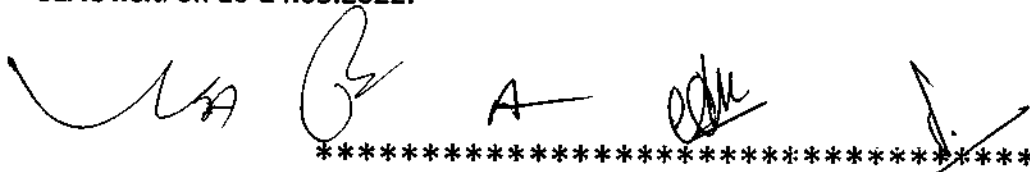
- i. Karaundajore Stone Mine of Sri Hemant Kumar Ohdar, Village : Karaundajore, Thana : Bharno, Dist. : Gumla, Jharkhand (2.83 Ha)

(Proposal No. : SIA/JH/MIN/ 270429/2022).

SEIAA in its 95th meeting held on 14 - 16.06.2022 referred back the proposal stating that the contiguous report of DMO was issued way back in 2015 vide letter no. 134/M, dated 29.01.2015 which does not provide the status of formation of cluster of mines / habitat etc. of the present conditions / status.

In the light of above direction the PAs submitted the revised DMO, Gumla certificate to SEAC vide letter no. 611/M, dated 05.07.2022 which reflects there is no other mines exist within 500 m periphery of project site. PAs also submitted the report of Mukhiya, Karaundajore alongwith Google imagery which reflects that no habitats is within 500 m of periphery of project site.

Based on the information provided, SEAC reiterates to grant of EC in the light of 94th MOM of SEAC held on 10-14.05.2022.



B. Consideration of Proposals

1. Samarjobra Stone Deposit of M/s Rayson Stone Crusher, Village : Samarjobra, Thana : Patamda, Dist. : East Singhbhum, Jharkhand (2.52 Ha).

(Proposal No. : SIA/JH/ MIN/253215 /2022).

Project Category: B2 – Application for Environment Clearance

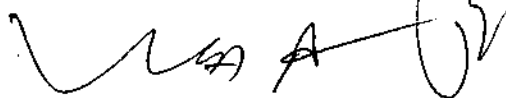
EC Application for: Proposed Capacity- 31,666.05 cu.m/annum or 85,498.33 TPA

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

This is a new project which has been taken for appraisal on 15.07.2022

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Samarjobra Stone Deposit
2	Lessee:	: M/s Rayson Stone Crusher Proprietor – Shri Sumit Kumar, At-101, Akash Kalsi Tower, Dimna Road, Mango, District – East Singhbhum, Jamshedpur, Jharkhand.
3	Lease Address	: Village – Samarjobra, Thana- Patamda , District – East Singhbhum, State –Jharkhand.
4	Lease Area	: 2.52 ha Acres-6.24 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 4.90 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.70Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 156,869.1 cum Tonnes: 4,23,546.57 tons
11	Mine Life	: 5.00 years
12	Man power	: 22
13	Water Requirement	: 12.0 KLD(Drinking: 0.22KLD,Dust Suppression:5.20 KLD, Plantation:6.60 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: Yes, crusher area- 0.100 ha (including in mining)
17	Nearest Water Body	: Kumari River Approx. 6.3 km. in N direction.
18	Nearest Habitation	: Samarjobra, 0.20 km
19	Nearest Rail Station	: Biramdih Railway station, approx. 29.0 km toward W direction



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20	Nearest Air Port	:	Birsa Munda Airport Ranchi, approx. 123 Km towards W direction.
21	Nearest Forest	:	Tentladih PF Approx. 3.0 km. in SSW direction. PF near Jharnakocha village Approx. 3.5 km. in NNW direction. Protected Forest Approx. 4.5 km. in ESE direction.
22	Road & Highways	:	NH-116B, Approx. 6.0 km. in N direction.

CO-ORDINATES :

1	Latitude	From 22°59'19" N	To 22°59'25" N
2	Longitude	From 86°28'25" E	To 86°28'38" E

LAND DETAILS :

Khata no.	Plot no.
14	226, 229, 230, 231, 232, 233
15	175, 176 & 223

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, East Singhbhum Jamshedpur vide letter no. 1179/M , dated 18-09-2021.
2	CO	:	The CO, Patmada vide letter no. 485, dated 25-06-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, East Singhbhum Jamshedpur vide memo no. 1583, dated 27-12-2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1471, dated 21-09-2021 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, Jamshedpur Forest Division vide letter no. 686 & 687, dated 12-03-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	:	The DC, East Singhbhum, Jamshedpur vide letter no. 1498/M, dated 06.12.2021 has informed that this project is part of District Survey Report (DSR) of East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.

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7	Gram Sabha	:	on 20-05-2021
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag vide letter no. 695/M dated 25.09.2021

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.62 ha Life of Mine - 1.62 ha
3	Waste Generation	:	5 years-72,415 cu.m
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	220AMSL to 208AMSL
8	Ground Level Elevation	:	220 AMSL
9	Ultimate Working Depth	:	199 AMSL (9 mbgl)
10	Water Table	:	188 AMSL (20 mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	84 kg slurry explosive
13	Diesel/Fuel requirement	:	9 liter/day

Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	85494.45	31,664.61	14819.29	220 mRL - 204 mRL
2 nd	85498.33	31,666.05	9818.45	216 mRL - 199 mRL
3 rd	85494.69	31,664.70	35183.0	220 mRL - 199 mRL
4 th	85495.17	31,664.88	4558.32	216 mRL - 199 mRL
5 th	81562.85	30,208.464	8036.49	216 mRL - 199 mRL
Total	423545.49	156868.704	72415.55	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation/ old pit	0.174	1.62	1.62 (0.81ha area left as dead bench and rest area shall be

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			left as water reservoir for rain water harvesting)
Road	0.03	Nil	Nil
Waste dump	Nil	Nil	Nil
Proposed crusher	Nil	0.100 (including in mining)	0.100 (including in mining)
Plantation (green belt)	Nil	0.800 (Within safety zone)	0.800 (Within safety zone)
Total	0.204	2.52	2.52
Area unused	2.316	0.0	0.0
Total leasehold area	2.52	2.52	2.52

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.800ha	2000
2	Haul /Approach Road	:	0.50 km	200

- 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 72415.55 cum during the plan period. Part of the waste shall be used for village & haul road maintenance and part of the waste shall be temporarily dump at southern side of 1st two year excavation and from 3rd year part of quarry will exhausted and gradually backfilling shall be done. 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 11m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of

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

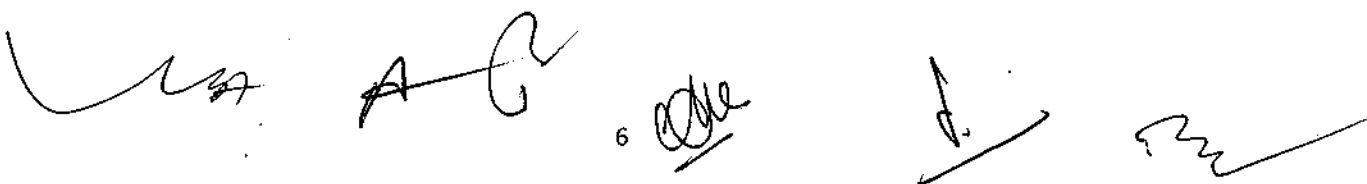
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing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

Air Quality Management

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

Undertaking submitted affirming:

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

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- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

This proposal was earlier considered in 93rd meeting of SEAC held during 18-27.02.2022 in which PAs were asked to submit a PAs were asked to obtain a clarification as the West Bengal state boundary was about 50 m from the project site. In this regard PAs has obtained the revised Circle Officer, Patmada letter no. 391, dated 21.06.2022 which reflects the interstate boundary is more than 5 km from the project site.

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 Samarjobra Stone Deposit of M/s Rayson Stone Crusher, Village : Samarjobra, Thana : Patamda, Dist. : East Singhbhum, Jharkhand (2.52 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

2. Sitagarh Stone Mine of M/s Abhen Mining & Engineering Work Pvt. Ltd., Village : Sitagarh and Sreerampur, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.11 Ha).

(Proposal No. : SIA/JH/MIN/254632 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Boulder Stone: 50000 Cu.m. / Year i.e. 135000 TPA

Waste: Nil

DG Set: No

Name of the consultant: P & M Solution, Noida

This project is listed on 15.07.2022 but request of PAs it was taken for appraisal on 17.07.2022

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: Sitagarh Stone Mine
2	Lessee:	: M/s Abhen Mining & Engineering Work Pvt. Ltd, Director- Sri Mose Tudu.
3	Lease Address	: Mouza – Sitagarh & Sreerampur; Thana – Pakur (Malpahari O.P.) District – Pakur; State Jharkhand
4	Lease Area	: Ha: 2.11 Ha Acres: 5.22 Acres

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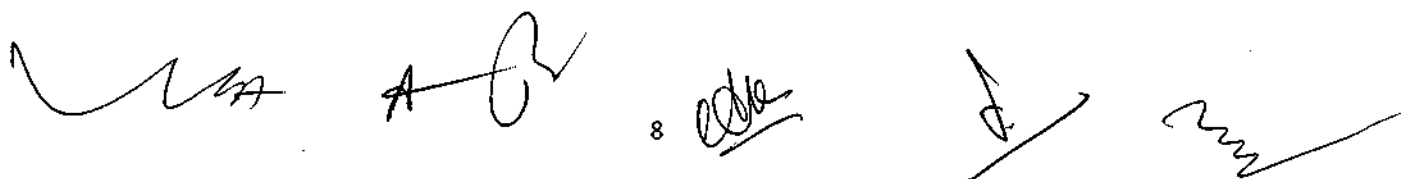
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	43.90 Lakhs
7	EMP Budget	:	Capital: 9.90 Lakhs Recurring: 4.00 Lakh / year
8	CSR / CER Budget	:	Rs. 2.20 Lakhs
9	New or Expansion	:	New Project
10	Mineable Reserves	:	Cu.m.: 5,43,725 Cu. M. Tonnes: 14,68,057 Tonnes
11	Mine Life	:	10 years
12	Man power	:	15
13	Water Requirement	:	23 KLD (Drinking: 2KLD, Dust Suppression: 15 KLD, Plantation: 6 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	River 4.5 KM
18	Nearest Habitation	:	Bara Mahulan Village: 1.2 KM; Pakur 6 KM
19	Nearest Rail Station	:	Pakur 6 KM
20	Nearest Air Port	:	Ranchi: 300 KM
21	Nearest Forest	:	PF 1.5 KM in west direction & 2.5 KM in SE Direction.
22	Road & Highways	:	NH-34 – 15 KM; SH – 20 KM

CO-ORDINATES :

1	Latitude	From 24°35' 30.58" N	To 24°35' 40.43" N
2	Longitude	From 87°48' 22.57" E	To 87°48' 23.12" E

LAND DETAILS :

Sl. no.	Mouza	Khata no.	Plot no.
1.	Sitagarh	13	661,674 & 675
2.	Sreerampur	11	171,172p,173p,174p & 175
		8	176, 177p
		24	169

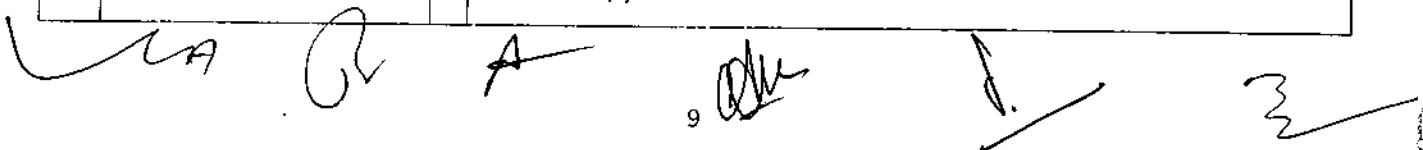


STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 44 dated 15.01.2021.
2	CO	:	The CO, Pakur vide letter no. 1022, dated 08.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide memo no. 249, dated 03.03.2021 certified that one lease (6.88 Acres) exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 652, dated 20.03.2020 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, Pakur Division vide letter no. 885, dated 30.05.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site
6	DSR	:	The DC-cum-District Magistrate, 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 regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 03.09.2019
8	Mine Plan Approval	:	The mine plan approved by Additional Director, Geology vide Letter No. 572/G dated 11.06.2021

Working Details :

1	Mining Method	:	Semi Mechanized. Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	:	5 years – 1.19 ha Life of Mine – 1.41ha
3	Waste Generation	:	5 years– Nil Life of Mine – Nil
4	Stripping Ratio	:	
5	Working Days	:	300
6	Bench: size & No	:	3m x 3m
7	Elevation of Mine	:	In AMSL
8	Ground Level Elevation	:	In AMSL
9	Ultimate Working Depth	:	20 mRL (Hence forth In AMSL)
10	Water Table	:	18 mRL (Hence forth In AMSL) & also bgl
11	Topography of Mine	:	Plain
12	Explosive Requirement	:	8.62 Tons/year


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13	Diesel/Fuel requirement	:	90 lt/day
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Production Details

Year	Production of stone (Cum)	Production of stone (Tons)	Bench RL in Meters
1 st	50,000	1,35,000	60-54
2 nd	50,000	1,35,000	54-50
3 rd	50,000	1,35,000	50-46
4 th	50,000	1,35,000	46-42
5 th	50,000	1,35,000	42-37
Total	2,50,000	6,75,000	

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	1.19	1.41	Water Body
2	Office /Store	0.00	0.00	0.00	
3	Crusher	0.00	0.00	0.00	
4	Road	0.00	0.01	0.00	
5	Garland Drain	0.00	0.00	0.00	
6	Safety Zone	0.00	0.70	0.70	Plantation
7	Settling Tank	0.00	0.00	0.00	
8	Unutilized	2.11	0.21	0.00	
	TOTAL	2.11	2.11	2.11	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.70 ha	1750 trees @ 2500 trees per ha
2	Other Reclaimed Area	: NIL	NIL

3	Haul /Approach Road	:	1.2 KM	1600 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 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 during 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:

- 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.
- If any tree felling is required a permission should be taken from competent authority.

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 Sitagarh Stone Mine of M/s Abhen Mining & Engineering Work Pvt. Ltd., Village : Sitagarh and Sreerampur, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.11 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

Day 2 : July 16th , 2022 [Saturday]

Consideration of Proposals

- Chandula – Simalgoda Opencast Stone Mine of M/s Jharkhand State Mineral Development Corporation Limited (JSMDC Ltd.), Village : Chandula - Simalgoda, Tehsil : Barharwa, Distt. : Sahibaganj, Jharkhand (Total project area 69.93 Ha, proposed lease area 19.769 Ha).

(Proposal No. : SIA/JH/ MIN/63157 /2021).

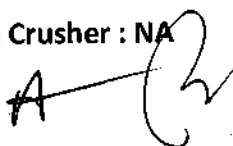
Project Category: B1 – Application for Environment Clearance

EC Application for: Boulder Stone : 4,00,000 Cu.M. / year i.e. 9,20,000 MTPA

Waste : 139097 Cu.M. / year

DG Set : NA

Mobile Crusher : NA

12





Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 16/07/2022

TOR for the project was issued by MoEF&CC, Govt. of India vide letter no. J-11015/20/2018-IA.II(M), dated 13.04.2018. The final EIA / EMP submitted by PP to SEIAA on 01.04.2022 and received by SEAC on 14.04.2022.

Project and Location Details :

Sl	Parameter	Details	
1	Project Name	: Chandula – Simalgoda Opencast Stone Mine	
2	Lessee:	: Jharkhand State Mineral Development Corporation Limited	
3	Lease Address	: Regd.Office : Khanij Nigam Bhawan, Doranda, Ranchi -834002, Jharkhand	
4	Total project Area	: 69.93 Ha	Acres: 172.80
	Proposed lease area	19.769 Ha (Stage I clearance obtained)	
5	Type of Land	: Forest Land & Gm Land	
6	Project Cost	: 94 Crore	
7	EMP Budget	: Capital: 38.00 Lakhs	Recurring: 5.00 Lakh / year
8	CSR / CER Budget	: Rs. 19.40 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 6629009.60	
11	Mine Life	: 16.57 Year	
12	Man power	: 207	
13	Water Requirement	: 40.00 KLD (Drinking: 5.00 KLD, Dust Suppression: 20.00 KLD, Plantation: 15.00 KLD)	
14	Water Source	: Ground Water	
15	DG Set / power	: NA	
16	Crusher	: Yes	
17	Nearest Water Body	: Gumani River (5.1 Km)	
18	Nearest Habitation	: Nearby Lease	
19	Nearest Rail Station	: Barharwa Junction Railway Station (6 Km) Bakudi Junction (2 Km)	
20	Nearest Air Port	: Birsa Munda Airport (250 Km)	
21	Nearest Forest	: 0 m within lease	
22	Road & Highways	: NH-80 (1.80 Km)	

CO-ORDINATES

1	Latitude	From 24 ⁰ 53'47.710" N	To 24 ⁰ 54'38.354" N
2	Longitude	From 87 ⁰ 45'16.695" E	To 87 ⁰ 46'03.102" E

LAND DETAILS

Plot No. – 63, 89 to 100, 103, 106, 440, 450, 456, 12 to 15, 17, 20 to 30, 21/56, 29/56, 28/58, 28/59 to 28/61 & 60 to 68

STATUTORY CLEARANCES

1	CO	:	The CO, Pathna vide letter no. : 525, Dated 02/11/2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatliyan & Register II.
2	DMO	:	DMO, Sahebganj vide memo no. 1029/M, dated 08.10.2021 certified that the no other lease mine exists within 500 m radius . For Production Figure Certificate : Letter No. 870 Dated 27/03/2018 & Letter No. 1638 Dated 06/11/2017.
3	Wildlife Clearance	:	The Wildlife Conservation Plan has been approved by the Principal Chief Conservator of Forest, Wildlife & Chief Wildlife Warden, Jharkhand vide Office Order no. 10, dated 18.01.2022.
4	Stage – I	:	MoEF&CC, Govt. of India has approved the Stage - I Forest Clearance vide Letter No.: 5-JHC030/2007-BHU, Dated: 06/07/2010. Later on MoEF&CC, Govt. of India has modified the Stage - I Forest Clearance vide Letter No. : 5-JHC030/2007-BHU/3944, Dated: 11/05/2020.
5	DSR	:	The project is already mentioned in page no. 43 of District Survey Report (DSR) of District Sahibganj.
6	Public Hearing	:	On Dated 17/12/2018
7	Mine Scheme Approval	:	Additional Director, Geology, Hazaribag vide Letter No. : 797 / G Date : 10/12/2021

Working Details

1	Mining Method	:	Opencast
2	Quarry Area	:	5 years – 12.25 ha Life of Mine – 12.769 ha
3	Waste Generation	:	5 years– 139097 Cu.M
4	Stripping Ratio	:	0:0.25
5	Working Days	:	300
6	Benches: size & No	:	Height 6m & Width 10m
7	Elevation of Mine	:	180m AMSL
8	Ground Level Elevation	:	180m AMSL

9	Ultimate Working Depth	:	97m AMSL
10	Water Table	:	53m AMSL
11	Topography of Mine	:	Hilly
12	Explosive Requirement	:	69.50 to 155.68 Kg

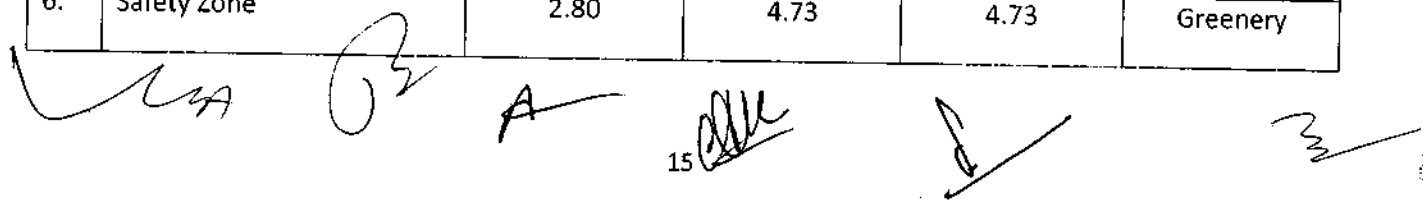
Production Details

Summary Of Year Wise Production Of O.B. And Stone				
YEARS	Production of Stone in Cum/Year	Over Burden in Cum/Year	Production of Stone in Tonnes/Year	Production of Stone in Cft/Year
2021-22	390524	62122	898205	22455130
2022-23	392879	26822	903622	22590554
2023-24	391894	14558	901357	22533921
2024-25	388212	22243	892888	22322190
2025-26	400000	13352	920000	23000000
Total	1963509	139097	4516072	112901795

Land Use

Project activities during plan period will be confined to already degraded area of 19.769 Ha.

Sl. NO.	Pattern of Utilization	Existing Land Use in Ha.	Proposed Land Use (5 Years Scheme Period) in Ha.	Conceptual Land Use in Ha.	Status of land at the end of the life of the mine
1.	Mining Activities	5.34	12.25	12.769	Water Reservoir
2.	Infrastructure etc.	1.50	0.20	0.20	Greenery
3.	Dumping	0.25	1.09	1.09	Greenery
4.	Mining Road	0.25	0.73	0.73	Greenery
5.	Garland Drain	0.25	0.25	0.25	
6.	Safety Zone	2.80	4.73	4.73	Greenery



7.	Stone Stock Yards	0.00	-	-	
8.	Utilized	10.39	19.25	19.769	
9.	Un-utilized	9.379	0.519	0.00	Greenery
TOTAL		19.769	19.769	19.769	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 4.517	3613
2	Haul /Approach Road	: 3.00 Km	1980

- 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.


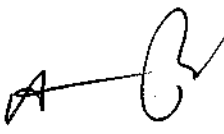
Solid Waste Management

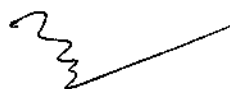
- Waste Generation will be 139097 Cu.M. during the life of Mine. Dump area proposed for waste storage is 1.09Ha. The Waste shall be handled as detailed below:

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 25m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

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

Undertaking submitted affirming:

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

Earlier this proposal was presented in SEAC on 10-14.05.2022 in which requisite documents were sought are under –

- i. Clarification regarding dump site shown in conceptual plan to be provided.
- ii. Clarification regarding back filling and reclamation to be provided.
- iii. Atleast 01 monitoring location should be within 500 m in down wind direction.
- iv. Time bound action plan of issues raised during Public Hearing to be provided.
- v. Need based socio economic study to be conducted.
- vi. Ecology & Bio-Diversity, Risk & Hazard and LULC study to be conducted for study area.
- vii. There is no clarity about EMP budget and budget for addressing public hearing issues.
- viii. One month additional environmental monitoring data to be generated.

The Project Authorities have submitted the above mentioned documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Chandula – Simalgoda Opencast Stone Mine of M/s Jharkhand State Mineral Development Corporation Limited (JSMDC Ltd.), Village : Chandula - Simalgoda, Tehsil : Barharwa, Distt. : Sahibaganj, Jharkhand is being recommended for grant of EC only for the area 19.769 Ha out of total project area 69.93 Ha. The various conditions for grant of EC is enclosed as Annexure – 1 alongwith the follwing specific conditions :

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

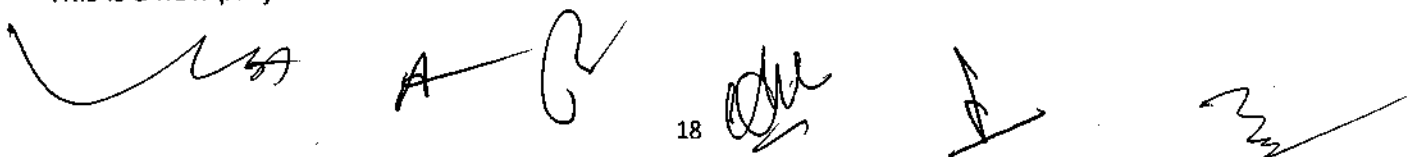
2. Dungri-Puttia Sand Mining Lease of M/s Tata Steel Limited (Prop. Mr. Chavala Divaker), Village : Dungri-Puttia, Tehsil : Jhariya & Putki, Dist. : Dhanbad, Jharkhand (24.127 Ha).

(Proposal No. : SIA/JH/MIN/59908/2021)

Project Category: B1 – Application for TOR

Name of the consultant :Crystal Consultants

This is a new project which has been taken for appraisal on 16.07.2022



Project and Location Details :

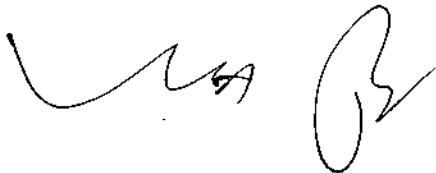
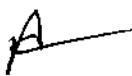
Sl	Parameter	Details	
1	Project Name	:	DUNGRI - PUTTIA SAND MINING LEASE
2	Lessee:	:	Tata Steel Ltd.
3	Lease Address	:	Jharia Division, Tata Steel, Jamadoba - 828112
4	Lease Area	:	24.127 Ha. Acres:
5	Type of Land	:	Govt. Land
6	Project Cost	:	51.85 Lakhs
7	EMP Budget	:	Capital: 2.50 Lakhs Recurring: 1.5Lakh / year
8	CSR / CER Budget	:	Rs. 1.00 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:198400 Cu. M/ year Tonnes:0.7716 MT
11	Mine Life	:	Till the lease is valid
12	Man power	:	42
13	Water Requirement	:	5.5 KLD (Drinking:1.50 KLD,Dust Suppression& Plantation: 4.00 KLD)
14	Water Source	:	Dug wells / Bore wells
15	DG Set / power	:	NO
16	Crusher	:	NO
17	Nearest Water Body	:	Damodar River
18	Nearest Habitation	:	Dungri
19	Nearest Rail Station	:	Bhaga (4 Km)
20	Nearest Air Port	:	Ranchi (160 Km)
21	Nearest Forest	:	None
22	Road & Highways	:	SH-12 (4.5 Km)

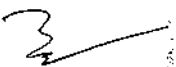
CO-ORDINATES :

1	Latitude	From 23°42'38.69" N	To 23°42'08.04" N
2	Longitude	From 86°22'33.23" E	To 86°22'16.95" E

LAND DETAILS :

Sl. no.	Mouza	Khata no.	Plot no.
1	Dungri	126	01 (P)
2	Puttia	201	1755 (P) (NEW) / 2616 / 2714 (P) (OLD)

STATUTORY CLEARANCES

1	CO	:	The CO, Putki (Dhanbad) vide letter no. 246, dated 26.07.2021 and CO, Jharia vide letter no. 394, dated 03.05.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
2	DMO	:	DMO, Dhanbad vide memo no. 1528 /M, dated 07.07.2021 certified that no lease area exists within 500 m radius from proposed project site.
3	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1622 , dated 16.09.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
4	DFO Forest Distance	:	DFO, Dhanbad Division vide letter no. 2201, dated 18.11.2020 certified that the distance of reserved / protected forest is 270 metre from proposed project site.
5	DSR	:	Project area mentioned in District Survey Report, Dhanbad district.
6	Mine Plan Approval	:	Letter dated 03.05.2019

Working Details

1	Mining Method	:	Semi-Mechanized Opencast Mining Method
2	Quarry Area	:	5 years-19.13 Ha. Life of Mine -18 years
3	Waste Generation	:	5 years- 0.0 Cu.M Life of Mine -0.0 Cu.M
4	Stripping Ratio	:	Zero
5	Working Days	:	237 Days
6	Bench: size & No	:	3
7	Elevation of Mine	:	In AMSL
8	Ground Level Elevation	:	In AMSL
9	Ultimate Working Depth	:	2 AMSL
10	Water Table	:	In AMSL and also bgl
11	Topography of Mine	:	Rolling
12	Explosive Requirement	:	Not Required
13	Diesel/Fuel requirement	:	500 Litres/day

Production Details

Year	Production of sand (Cum)	Production of sand (Tonne)	Waste Generation (CuM)
1 st	1,98,400	3,20,000	0.0
2 nd	1,98,400	3,20,000	0.0
3 rd	1,98,400	3,20,000	0.0
4 th	1,98,400	3,20,000	0.0
5 th	1,98,400	3,20,000	0.0
Total	9,92,000	16,00,000	0.0

Land Use:

Existing Land use

Sl. No	Land use	Area (Ha)
1.	Sand Deposit	15.61
2.	Water Flowing over Sand	6.857
3.	River Banks	1.66
Total		24.127

Proposed Land use


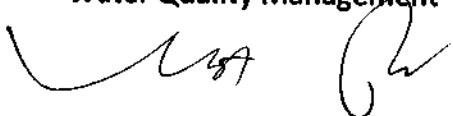
Sl. No	Land use	Area (Ha)
1.	Excavation Area	19.13 (in river bed)
2.	Safety Zone/ rationalization area	4.597 (left untouched)
3.	Road & Infrastructure Area	0.4
Total		24.127

- 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

- There will be no solid waste generation

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.
- Utmost care shall be taken to minimise sand spillage
- Drains and their Catchments shall be constructed just beside the access roads so that the storm water gets settled near the banks, before flowing to the river.
- The washing of trucks in the river shall be avoided.
- Plantation along the river banks will be done to arrest the velocity of the storm water
- It shall be ensured that quality of drinking water for the worker shall be hygienic and good sanitation system shall be made available.


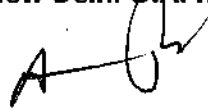


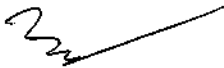
Air Quality Management

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

Undertaking submitted affirming:

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

As per Minor Minerals Rules the sand is identified as a Minor Mineral. For sand mining as per Enforcement & Monitoring Guidelines for Sand Mining, 2020, the Hon'ble National Green Tribunal, Principal Bench, New Delhi O.A. no. 40/2020/EZ with O.A. no. 57/2020/EZ order dated

14.10.2020 and Hon'ble Supreme Court Civil Appeal no. 3661-3662 of 2020 dated 10.11.2021 updated DSR from competent authority is required.

The PAs has submitted application stating that sand used for stowing purpose has been classified as a major mineral as per the MMDR Act, 1957 and Rule 70 of the MCR, 1960.

The Committee requested SEIAA to seek clarification from MoEF&CC, Govt. of India whether the current project is exempted from Enforcement & Monitoring Guidelines for Sand Mining, 2020, the Hon'ble National Green Tribunal, Principal Bench, New Delhi O.A. no. 40/2020/EZ with O.A. no. 57/2020/EZ order dated 14.10.2020 and Hon'ble Supreme Court Civil Appeal no. 3661-3662 of 2020 dated 10.11.2021 and considered as a major mineral as per the MMDR Act, 1957 and Rule 70 of the MCR, 1960 for the purpose of granting EC.

3. Tirildih-Turi Stone Deposit of M/s Kiran Construction & Infrastructure Pvt. Ltd at Vill. Tirildih & Turi, Ghatsila, Distt. : East Singhbhum, Jharkhand (8.90 Ha).

(Proposal No. : SIA/JH/ MIN/80177 /2022).

Project Category: B1 – Application for ToR

EC Application for: Stone: 1,69,993 Cu.M. / year i.e. 4,75,980 Tonnes / year

Name of the Consultant: M/s Crystal Consultants.

This is a new project which has been taken for appraisal on 16.07.2022

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Tirildih – Turi Stone Deposit
2	Applicant Address:	: M/s Kiran Construction & Infrastructure Pvt. Ltd. Director – Sri Sukhvinder Singh At Jemco Bus Stand, P.O.-Telco, Jamshedpur District – East-Singhbhum, Pin -831004, Jharkhand.
3	Lease Address	: In Mouza –Tirildih & Turi , Thana – Ghatsila, Thana no .- 1363 (for Tirildih mouza) & 1364 (for Turi mouza), District:- East-Singhbhum, Jharkhand.
4	Applied Area	: Ha: 8.90 Hectares Acres: 22.00 Acres
5	Type of Land	: Non Forest – G.M. Land
6	Project Cost	: 250 Lakhs
7	EMP Budget	: Capital: 31.00 Lakhs Recurring: 5.08 Lakh / year
8	CSR / CER Budget	: Rs. 5.00 Lakhs
9	New or Expansion	: New

10	Mineable Reserves	:	Cu.M.: 16,99,980 Cu. M.	Tonnes: 47,59,944 Tonnes
11	Mine Life	:	10 years	
12	Man power	:	37	
13	Water Requirement	:	30.48 KLD Dust Suppression: 14 KLD, Drinking: 1.5 KLD, Plantation: 14.98 KLD	
14	Water Source	:	From Garra Nadi by tankers	
15	DG Set / power	:	60 KVA	
16	Crusher	:	Yes	
17	Nearest Water Body	:	Garra Nadi is flowing approx. 6.90 Km aerial distance away in south-east direction.	
18	Nearest Habitation	:	Tirildih village is situated near about 0.72 km away aerial distance away in North East direction.	
19	Nearest Rail Station	:	Haludpukhur Railway Station is approx. 7.5 Km aerial distance away in South - West direction.	
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi is situated approx. 112.52 Km aerial distance away towards South-East direction.	
21	Nearest Forest	:	Nearest Forest is more than 400m away from the proposed project.	
22	Road & Highways	:	Highway: SH-6 is approx. 0.76 Km away in East direction.	

CO-ORDINATES

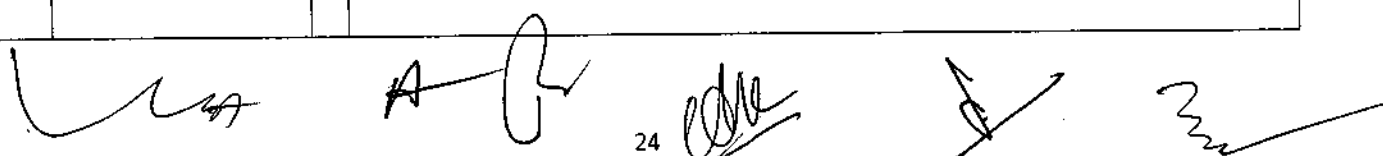
1	Latitude	From N22°39' 36.58"	To N22°39'50.24"
2	Longitude	From E86° 09' 50.76"	To E86°10' 10.57"

LAND DETAILS

Mouza	Khata No.	Plots No.	Area (Acres)
Tirildih	233	1226(P)	11.25
Turi	190	22, 51(P), 190(P)	10.75

STATUTORY CLEARANCES

1	LOI / Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, East Singhbhum, vide letter no. 2536 dated 19.09.2016.
2	CO	:	The CO, Potka, East Singhbhum vide letter no. 1146, dated 18.11.2015 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatian.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide memo no. 23, dated 08.01.2016 certified that one other lease of 10.55 Acres exist within 500 m radius from proposed project site & Total lease area is 32.55 Acres i.e. 13.18 Ha. which is more than 5 Ha.



4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1512, dated 28.09.2021 for Tirildih Mauza & vide letter no. 1503, dated 28.09.2021 for Turi Mauza 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, Jamshedpur Forest Division, vide letter no. 209, dated 19.01.2016 & Division Forest Officer, Saraikela Forest Division, vide letter no. 2597, dated 25.11.2017 certified that the distance of notified forest is more than 400m from proposed project site
6	DSR	:	Project's name is mentioned in Page No 40, SL No 1 of District Survey report (DSR), East Singhbhum.
7	Gram Sabha	:	On dated 06.09.2015
8	Mine Plan Approval	:	Approved by the District Mining Officer, East Singhbhum, Jamshedpur vide Letter No. 2606 dated 23.09.2016.

Working Details

1	Mining Method	:	Opencast Mechanized Mining.
2	Quarry Area	:	5 years – 4.53 Ha Life of Mine – 7.12 Ha
3	Waste Generation	:	5 years– 45472 Cu.M (Gritty Soil) Life of Mine – 78570 Cu.M (Gritty Soil)
4	Stripping Ratio	:	1 : 0.02
5	Working Days	:	300 Days
6	Benches: size & No	:	Size: 6m x 6m, No. - 14
7	Elevation of Mine	:	Highest RL 198m AMSL, Lowest RL 180m AMSL
8	Ground Level Elevation	:	150m AMSL
9	Ultimate Working Depth	:	112m AMSL
10	Water Table	:	100m AMSL
11	Topography of Mine	:	Hilly land.
12	Explosive Requirement	:	35.1 Tons/year
13	Diesel/Fuel requirement	:	60 KL/year (200 Litres/day)

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste (gritty soil) Generation (CuM)	Bench RL in Meters
1st	1,69,988	4,75,966	32,980	198m – 178m
2nd	1,69,979	4,75,941	12,492	184m – 178m
3rd	1,69,993	4,75,980	NIL	178m – 172m
4th	1,69,978	4,75,938	NIL	178m – 166m
5th	1,69,990	4,75,972	NIL	172m – 160m
Total	8,49,928	23,79,797	45,472	

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	4.53	7.12	7.12	Reservoir
2	Green Belt Within Safety Barrier	Nil	1.78	1.78	1.78	Plantation
3	Road	0.15	0.17	Nil	Nil	-
4	Dump	Nil	0.65	Nil	-	-
5	Crusher	Nil	0.02	Nil	-	-
6	Unutilized	8.75	1.75	Nil	Nil	-
	TOTAL	8.90	8.90	8.90	8.90	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	1.78 Ha	4450 trees @ 2500 trees per Ha
2	Haul /Approach Road	0.172 Ha i.e. Length 760 width 2m	574 trees on both sides – 3m distance
3	Outside the area	0.988 Ha	2470 trees @ 2500 trees per Ha

- 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 78570 Cu.M. during the life of Mine.

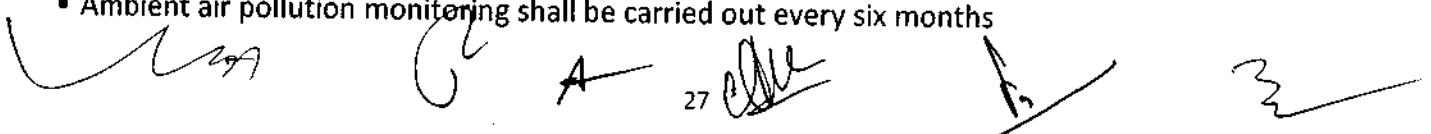
The area is covered with a thin layer of gritty soil. During plan period gritty soil will be removed and this will be at first dumped in the South - East portion of the applied area with suitable precaution and in conceptual period total removal gritty soil will be backfilled within the exhausted quarry. Proper handling of hazardous substances will be done near workshop area to restrict the soil contamination due to hazardous waste. Regular soil monitoring will be done in fixed site in core and buffer zone of project site.

Water Quality Management

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

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Undertaking submitted affirming:

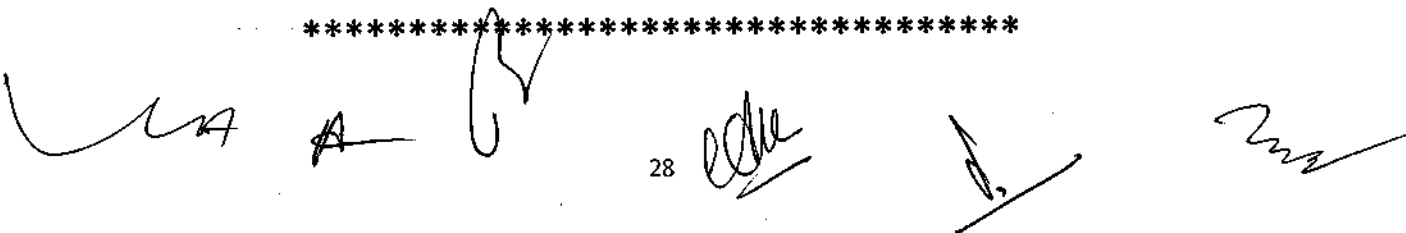
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The water required for the mining activities shall be supplied by the tanker from Garra River. The nearest distance from the applied area to Garra river is 6.90 Km in South-East direction.
- c. 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.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression within the mine applied area and on haul roads.
- i. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- j. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 15, 16, 17, 18, 19, 20, 21 & 22.07.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II.

4. Chagjo Stone Mine of M/s Bhagwan Stone & Minerals, Village : Chagjo, Tehsil : Pathna, Dist. : Sahibganj, Jharkhand (1.62 Ha).

(Proposal No. : SIA/JH/ MIN/271266 /2022).

The PAs did not turn up for the appraisal. Therefore, the committee deferred the project for appraisal.



5. Dalia Stone Deposit of M/s Jai Baba Stone, Village : Dalia, Thana : Jamua, Thana no. : 391, Distt. : Giridih, Jharkhand (0.708 Ha).

(Proposal no. : SIA / JH/MIN /266865 / 2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Boulder Stone : 2752.22 Cu.M. / year i.e. 7431 TPA

Waste 275.00 Cu.m

DG Set : 10 KVA

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 16.07.2022

Project And Location Details :

Sl	Parameter	Details
1	Project Name	: Dalia Stone Deposit
2	Lessee:	: M/s Jai Baba Stone, Partners Sri Jhari Mahto & Others
3	Lease Address	: At- Dalia, P.O.- Tara, P.S.- Jamua, Dist- Giridih
4	Lease Area	: Ha: 0.708 ha Acres: 1.75 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: 27.00 Lakhs
7	EMP Budget	: Capital: 7.58 Lakhs Recurring: 2.88 Lakh / year
8	CSR / CER Budget	: Rs. 0.54 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 27,498.23 Cu. M. Tonnes: 74245.24 Tonnes
11	Mine Life	: 10 years
12	Man power	: 16
13	Water Requirement	: 7.565 KLD (Drinking:0.64 KLD, Dust Suppression:5.0 KLD, Plantation:1.925 KLD)
14	Water Source	: Water for drinking purpose will be taken out by dug wells/ bore wells. For sprinkling & plantation water will be taken from private tanker
15	DG Set / power	: 10 KVA
16	Crusher	: No
17	Nearest Water Body	: Irga River 1.0 KM
18	Nearest Habitation	: Sahraj Village: 0.6 KM; Jamua 13 KM
19	Nearest Rail Station	: Rajdhanwar 16 KM
20	Nearest Air Port	: Birsa Munda Airport, Ranchi: 131 KM
21	Nearest Forest	: NIL
22	Road & Highways	: SH 13 – 13.2 KM; NH-2 – 31 KM

CO-ORDINATES

1	Latitude	From N24°17'57.01" N	To N24°17'59.65" N
2	Longitude	From E86°2'41.36"	To E86°2'46.59"

LAND DETAILS

Khata No.	Plot No.
5	355, 357, 358, 359, 360, 361
3	366, 383(P), 384(P), 385, 386, 387(P), 895(P)
<p>As per approved mine plan the plot no. 362 & 365 (P) bearing area 0.5 acre & 0.20 acre has been excluded to fullfil minimum distance criteria i.e. 250 m from RF/PF. This is also as per the certificate issued DFO, Giridih West vide letter no. 1323, dated 22.11.2021.</p>	

STATUTORY CLEARANCES :

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by DMO, Giridih vide letter no. 95/M, dated 09.02.2022.
2	CO	: The CO, Jamua vide letter no. 818, dated 27.08.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in Khatiyani.
3	DMO	: DMO, Giridih vide memo no. 198, dated 05.03.2022 certified that 01 other mining area exists 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. 789, dated 20.04.2022 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, Giridih West Division vide letter no. 1323, dated 22.11.2021 certified that plot no. 355, 357, 358, 359, 360, 361, 366 (P), 383 (P), 384 (P), 385, 386, 387 (P), 895 (P) bearing area 1.75 acre, 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. 164/M, dated 28.02.2022 has informed that this project is part of District Survey Report (DSR) of Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

7	Gram Sabha	:	On 06.01.2022
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag vide Letter No. 75/G, dated 04.03.2022

Working Details

1	Mining Method	:	Semi Mechanized. Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	:	5 years – 0.708 ha Life of Mine – 0.708 ha
3	Waste Generation	:	5 years–1375 Cu.M Life of Mine – Morum – NIL Morum–NIL
4	Stripping Ratio	:	0:0
5	Working Days	:	300
6	Bench: size & No	:	3m x 3m
7	Elevation of Mine	:	309 AMSL
8	Ground Level Elevation	:	305 AMSL
9	Ultimate Working Depth	:	302.25 AMSL
10	Water Table	:	299 AMSL to 295 & 10-14 m bgl
11	Topography of Mine	:	Undulating Topography
12	Explosive Requirement	:	1.8 Tons/year
13	Diesel/Fuel requirement	:	30.00 KL/year (100 Litres/day)

Production Details

Year	Production of stone in Tonnes	Production of stone in Cu.m	Production of soil in Cu.m	Intercalated waste in Cu.m	Total Waste in Cu.m
1 st Year	7420.25	2748.24	0	275	275
2 nd Year	7425.59	2750.22	0	275	275
3 rd Year	7430.94	2752.20	0	275	275
4 th Year	7425.59	2750.22	0	275	275
5 th Year	7430.94	2752.20	0	275	275
Total	37133.31	13753.08	0	1375	1375

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	0.000	0.323	0.323	Water Reservoir 0.204 Ha and bench plantation 0.119 Ha)

2	Office /Store	0.000	0.000	0.000	
3	Crusher	0.000	0.000	0.000	
4	Road	0.001	0.001	0.000	
5	Garland Drain	0.000	0.000	0.000	
6	Safety Zone	0.000	0.384	0.385	Plantation
7	Settling Tank	0.000	0.000	0.000	
8	Unutilized	0.707	0.000	0.000	
	TOTAL	0.708	0.708	0.708	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.385 ha	617 trees @ 1600 trees per ha
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.5 KM	NIL
4	Dead Bench Plantation	0.119 ha	190 trees @ 1600 trees per ha

- 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 1375 Cu.M. during the Plan period. No dump area is proposed for waste. The waste generated during the plan period will be use for haul 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 use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to

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

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

Air Quality Management

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

Undertaking submitted affirming:

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

During the presentation the following documents were sought :

- i. Land use table to be revised specifying safety zone.
- ii. Environmental management plan to be revised.
- iii. Green Belt Development plan to be revised.
- iv. One day monitoring data to be provided.

The Project Authorities have submitted the above mentioned documents.

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 Dalia Stone Deposit of M/s Jai Baba Stone, Village : Dalia, Thana : Jamua, Thana no. : 391, Distt. : Giridih, Jharkhand (0.708 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

6. Gurha Stone Deposit of Sri Arihant Jhanjhri, Mouza : Gurha, Thana : Birni, Thana no. : 169, Distt. : Giridih, Jharkhand (1.344 Ha).

(Proposal no. : SIA / JH/MIN/ 278318 /2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Boulder Stone : 17482.59 Cu.M. / year i.e. 47203 TPA

Waste 12245.00 Cu.m

DG Set : 10 KVA

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 16.07.2022

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Gurha Stone Deposit
2	Lessee:	: Sri Arihant Jhanjhri
3	Lease Address	: At- Gurha, P.S.- Birni, P.S. No. 169, Dist- Giridih
4	Lease Area	: Ha: 1.344 ha Acres: 3.32 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: 28.00 Lakhs
7	EMP Budget	: Capital: 8.35 Lakhs Recurring: 2.90 Lakh / year
8	CSR / CER Budget	: Rs. 0.56 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 174845.55 Cu. M. Tonnes: 472083 Tonnes
11	Mine Life	: 10 years

12	Man power	:	20
13	Water Requirement	:	8.20 KLD (Drinking:0.80 KLD, Dust Suppression:5.0 KLD, Plantation:2.4 KLD)
14	Water Source	:	Water for drinking purpose will be taken out by dug wells/ bore wells. For sprinkling & plantation water will be taken from private tanker
15	DG Set / power	:	10 KVA
16	Crusher	:	No
17	Nearest Water Body	:	Parasbani River 6.0 KM
18	Nearest Habitation	:	Gurha Village: 1.0 KM; Rajdhanwar 19 KM
19	Nearest Rail Station	:	Rajdhanwar 21 KM
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi: 133 KM
21	Nearest Forest	:	NIL
22	Road & Highways	:	SH 13 – 11.0 KM; NH-114A – 20 KM

CO-ORDINATES :

1	Latitude	From N24°16'39.70"	To N24°16'45.92"
2	Longitude	From E86°06'09.49"	To E86°06'16.28"

LAND DETAILS

Sl. no.	Mouza	Khata no.	Plot no.
1.	Gurha	3	1194(P), 1189(P), 1188/1710, 1186/1711
2.		39	1185 & 1186
3.		70	1187(P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (Loi) has been issued by District Mining Office, Giridih vide letter no. 89/M dated 08.02.2022.
2	CO	:	The CO, Birni (Giridih) vide letter no. 61, dated 28.01.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	:	DMO, Giridih vide memo no. 190/M, dated 04.03.2022 certified that one more lease of Sri Suresh Kumar Jhanjhri (2.65 Acres) exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.
4	DFO Wild Life	:	Divisional Forest Officer, Wildlife Division Hazaribagh vide letter no. 608, dated 31.03.2022 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, Giridih West Division vide letter no. 544, dated 02.06.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Giridih vide letter no. 164 / M, dated 28.02.2022 has informed that this project is part of District Survey Report (DSR) of Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 19.01.2022
8	Mine Plan Approval	: Additional Director, Geology, Hazaribag vide Memo No. 56/G dated 17.02.2022.

Working Details :

1	Mining Method	: Semi Mechanized. Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	: 5 years – 0.66 ha Life of Mine – 0.857 ha
3	Waste Generation	: 5 years–12245 Cu.M Life of Mine – NIL Morum–3728 Cu.M Morum – NIL
4	Stripping Ratio	: 0:0
5	Working Days	: 295
6	Benches: size & No	: 3m x 3m
7	Elevation of Mine	: 354 AMSL to 336 AMSL
8	Ground Level Elevation	: 342 AMSL
9	Ultimate Working Depth	: 337 AMSL
10	Water Table	: 334 AMSL to 330 AMSL & 8-12 m bgl
11	Topography of Mine	: Undulating Topography
12	Explosive Requirement	: 6.3 Tons/year
13	Diesel/Fuel requirement	: 30.00 KL/year (100 Litres/day)

Production Details :

Year	Production of stone in Tonnes	Production of stone in Cu.m	Production of soil in Cu.m	Intercalated waste in Cu.m	Total Waste in Cu.m
1 st Year	41197	15258.15	2150	1526	3676
2 nd Year	47203	17482.59	738	1748	2485

3 rd Year	47203	17482.59	725	1748	2473
4 th Year	47178	17473.33	0	1747	1747
5 th Year	47191	17478.15	115	1748	1863
Total	229972	85174.81	3728	8517	12245

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	0.000	0.66	0.857	Water Reservoir 0.563 , Backfilling 0.11, Embankment 0.01, bench plantation 0.174
2	Dump	0.000	0.09	0.000	
3	Crusher	0.000	0.000	0.000	
4	Road	0.003	0.007	0.000	
5	Retaining wall & Garland Drain	0.000	0.015	0.000	
6	Safety Zone	0.000	0.48	0.487	Plantation
7	Settling Tank	0.000	0.000	0.000	
8	Unutilized	1.341	0.092	0.000	
	TOTAL	1.344	1.344	1.344	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.487 ha	782 trees @ 1600 trees per ha
2	Other Reclaimed Area	: 0.007 ha	12
3	Haul /Approach Road	: 0.8 KM or 0.16 ha	534 trees (@334 trees per ha on both side in single row)
4	Dead Bench Plantation	0.174 ha	278 trees @ 1600 trees per ha

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




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

Solid Waste Management

- Total 12245 Cu.m of waste shall be generated which shall be use for haul road dressing during the plan period.
- **Water Quality Management**
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

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







Undertaking submitted affirming:

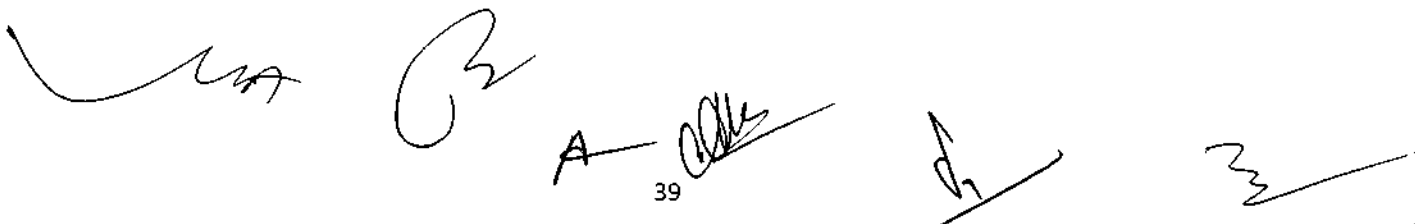
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are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

During the presentation the following documents were sought :

- i. Land use table to be revised specifying safety zone.
- ii. Environmental management plan to be revised.
- iii. Green Belt Development plan to be revised.
- iv. One day monitoring data to be provided.

The Project Authorities have submitted the above mentioned documents.

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 Gurha Stone Deposit of Sri Arihant Jhanjhri, Mouza : Gurha, Thana : Birni, Thana no. : 169, Distt. : Giridih, Jharkhand (1.344 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.



7. Sugipahari Stone Mine of M/s Viveka Nand Ray & Md. Sarfaraz Ansari, Village : Sugipahari, Thana : Palojori, Thana no. : 343, Distt. : Deoghar, Jharkhand (1.416 Ha).

(Proposal no. : SIA / JH/MIN/ 282011 /2022)

The Letter of Intent (Lol) has been issued by District Mining Office, Deoghar vide letter no. 163/M dated 15.02.2017. This is a GM land. As per Jharkhand Minor Mineral Concession (Amendment) Rules, 2017 the validity of Lol issued on GM land is valid for 180 days only, within which period they were required to submit Environmental Clearance . As per the PAs the matter is subjudiced before Mines Commissioner Court. Committee asked the PAs to submit the order of Mines Commissioner Court or certificate from DMO stating that the Letter of Intent is still valid.

The project will be taken up for appraisal, on receipt of the above documents.

8. Brick Soil Mining for M/s B.K.S. Bricks (Prop. : Sri Bhanu Kumar Ram), Village : Malsiring, Thana : Pithoria, Thana no. : 16, Distt. : Ranchi, Jharkhand (0.84 Ha).

(Proposal no. : SIA / JH/MIN/ 282486 /2022)

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 16.07.2022

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s B.K.S. Bricks in Mouza – Malsiring
2	Applicant:	: M/s B.K.S. Bricks Proprietor: Sri Bhanu Kumar Ram S/o – Sri Baksu Ram At Village + P.O. – Malsiring, P.S - Pithoria, District – Ranchi, State – Jharkhand, Pin No. – 835222.
3	Lease Address	: In Mouza - Malsiring, Thana – Pithoria, Thana No. – 16, District – Ranchi, Jharkhand.
4	Applied Area	: Ha: 0.84 Hectares Acres: 2.08 Acres

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5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	8 Lakhs
7	EMP Budget	:	Capital: 4.68 Lakhs Recurring: 2.32 Lakh / year
8	CSR / CER Budget	:	Rs. 0.16 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 12607 Cu. M.
11	Mine Life	:	11 years
12	Man power	:	10
13	Water Requirement	:	14.21 KLD (Dust Suppression: 12.0 KLD, Drinking: 0.40 KLD, Plantation: 1.81 KLD)
14	Water Source	:	From nearby authorized sources.
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Jumar Nadi is approx. 0.76 km aerial distance away in North West direction
18	Nearest Habitation	:	Malsiring village is situated approx. 1.12 km aerial distance away in South-East direction.
19	Nearest Rail Station	:	Ranchi Railway Station is situated approx. 18.83 Km aerial distance away towards South- East direction.
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, Jharkhand is situated approx. 21.34 Km aerial distance away towards South-East direction.
21	Nearest Forest	:	Approx 2.2 Km away from the proposed project.
22	Road & Highways	:	Approach Road: Malsiring – Karkata - Jidu Road is approx. 850m away in North East direction. Highway: SH-2 is approx. 7.00 Km away in East direction.

CO-ORDINATES

1	Latitude	From N 23°29'30.08"	To N 23°29'39.65"
2	Longitude	From E 85°14'08.70"	To E 85°14'14.93"

LAND DETAILS

Khata No -	102	110
Plot Nos -	7, 14	6

STATUTORY CLEARANCES

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Kanke, Ranchi vide letter no. 927(ii), dated 12.10.2019 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 memo no. 20/M, dated 07.01.2020 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	Division Forest Officer, Wildlife Division Ranchi vide memo no. 1195, dated 26.10.2019 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. 5021, dated 31.10.2019 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. 246/M, dated 02.03.2022 has informed that this project (sl no 4) 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	:	On 26.06.2019
8	Mine Plan Approval	:	Approved by the Additional Director Mines, Ranchi vide Letter no. 236/M on dated 17.12.2019.

Working Details

1	Mining Method	:	Opencast Manual Mining and transportation by tippers.	
2	Quarry Area	:	5 years - 0.38 Ha	Life of Mine - 0.76 Ha
3	Waste Generation	:	5 years - 725 Cu.M (Top Soil)	Life of Mine - 1525 Cu.M (Top Soil)

4	Stripping Ratio	:	1 : 0.60
5	Working Days	:	200 Days
6	Benches: size & No	:	Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	:	Highest RL 660m AMSL, Lowest RL 654m AMSL
8	Ground Level Elevation	:	654m AMSL
9	Ultimate Working Depth	:	651m AMSL
10	Water Table	:	637m 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	145	654m – 652m
2 nd	1200	6,00,000	145	654m – 652m
3 rd	1200	6,00,000	145	655m – 653m
4 th	1200	6,00,000	145	656m – 654m
5 th	1200	6,00,000	145	657m – 655m
Total	6000	30,00,000	725	

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	0.38	0.76	0.76	Grass cultivation will be done on it
2	Road	0.002	Nil	Nil	Nil	
3	Green Belt Within Safety Barrier	Nil	0.08	0.08	0.08	Plantation
4	Unutilized	0.838	0.370	Nil	Nil	
	TOTAL	0.840	0.84	0.84	0.84	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.08 Ha	200 trees @ 2500 trees per Ha
2	Haul /Approach Road	:	0.17	568 trees on both sides – 3m distance
			i.e. Length 850m width 2m	
3	Other Reclaimed Area - Outside the project area	:	0.027 Ha	70 trees @ 2500 trees per Ha

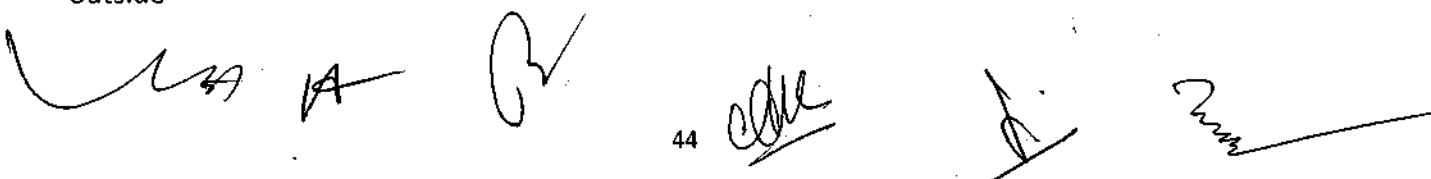
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality 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 1525 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

A series of handwritten signatures and initials in black ink, including a large stylized signature, the letter 'A', the letter 'B', the number '44', and several other illegible signatures.

- 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

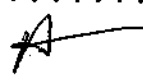
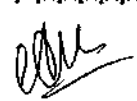
- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment 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 water required for the mining activities shall be supplied by the tanker from nearby authorized sources.
- c. The letter issued in respect of District Survey Report (DSR), is issued by the competent authority. I will abide by any directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- i. All the transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- j. If any tree felling than necessary permission shall be taken from the competent authority.

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 B.K.S. Bricks (Prop. : Sri Bhanu Kumar Ram), Village : Malsiring, Thana : Pithoria, Thana no. : 16, Distt. : Ranchi, Jharkhand (0.84 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 D.K.B. Bricks (Prop. : Sri Devendra Kumar), Village : Champadih, Thana : Lapung, Thana no. : 76, Distt. : Ranchi, Jharkhand (1.23 Ha).

(Proposal no. : SIA / JH/MIN/ 282512 /2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1200 Cu.M. / Year i.e. Bricks 6 Lakhs 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 16.07.2022

Project and Location Details:

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s D.K.B. Bricks in Mouza – Champadih
2	Applicant:	: M/s D.K.B. Bricks Proprietor: Sri Devendra Kumar S/o – Late Rajendra Ram At Village + P.O. – Kakaria, P.S - Lapung, District – Ranchi, State – Jharkhand, Pin Code – 835202.
3	Lease Address	: In Mouza – Champadih, Thana – Lapung, Thana No. – 76, District – Ranchi, Jharkhand - 835202
4	Applied Area	: Ha: 1.23 Hectares Acres: 3.05 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 9 Lakhs
7	EMP Budget	: Capital: 6.70 Lakhs Recurring: 2.43 Lakh / year
8	CSR / CER Budget	: Rs. 0.18 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 6030 Cu. M.
11	Mine Life	: 5 years
12	Man power	: 10
13	Water Requirement	: 9.13 KLD (Dust Suppression: 4.0 KLD, Drinking: 0.40 KLD, Plantation: 4.73 KLD)

14	Water Source	:	From nearby authorized sources.
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Jamuniya River is approx. 1.55 km aerial distance away in North East direction
18	Nearest Habitation	:	Kakaria village is situated approx. 0.58 km aerial distance away in North direction.
19	Nearest Rail Station	:	Kotlo Railway Station is situated approx. 10.39 Km aerial distance away towards South - East direction.
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, Jharkhand is situated approx. 35.42 Km aerial distance away towards North-East direction.
21	Nearest Forest	:	Approx 2.7 Km away from the proposed project.
22	Road & Highways	:	Approach Road: Champadih-Khatanga Road is approx. 250m away in East direction. Highway: Bharno – Dolaicha – Khunti road is approx. 0.48 Km away in North direction.

CO-ORDINATES

1	Latitude	From N23°09'33.44"	To N23°09'39.97"
2	Longitude	From E85°01'21.75"	To E85°01'26.39"

LAND DETAILS

Khata No -	122
Plot Nos -	23, 24, 25, 26, 27 & 29

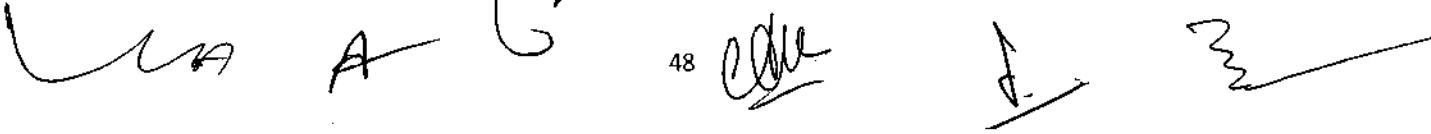


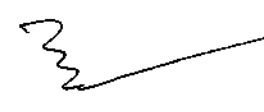
STATUTORY CLEARANCES

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Lapung, Ranchi, vide letter no. 364, dated 24.09.2019 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 memo no. 82/M, dated 24.01.2020 certified that no other lease exists within 500 m radius from proposed project site &

		total lease area is less than 5 Ha.
4	DFO Wild Life	: Division Forest Officer, Wildlife Division Ranchi, vide letter no. 1194, dated 26.10.2019 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. 5034, dated 31.10.2019 certified that the distance of reserved / protected forest is more than 250m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Ranchi, vide letter no. 246/M, dated 02.03.2022 has informed that this project (sl no 5) 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	: BDO, Lapung, Ranchi vide letter no. 516, dated 03.10.2019 informed that Gram Sabha conducted on 26.08.2019
8	Mine Plan Approval	: Approved by the Additional Director Mines, Ranchi vide Letter no. 226/M , dated 02.12.2019.

Working Details

1	Mining Method	: Opencast Manual Mining and transportation by tippers.
2	Quarry Area	: 5 years – 0.36 Ha Life of Mine – 0.36 Ha
3	Waste Generation	: 5 years– 735 Cu.M (Top Soil) Life of Mine – 735 Cu.M (Top Soil)
4	Stripping Ratio	: 1 : 0.61
5	Working Days	: 200 Days
6	Benches: size & No	: Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	: Highest RL 588m AMSL, Lowest RL 586m AMSL
8	Ground Level Elevation	: 588m AMSL
9	Ultimate Working Depth	: 585m AMSL
10	Water Table	: 568m AMSL
11	Topography of Mine	: Flat Land.
12	Explosive Requirement	: No
13	Diesel/Fuel requirement	: 4 KL/year (20 Litres/day)


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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	588m – 586m
2nd	1200	6,00,000	147	588m – 586m
3rd	1200	6,00,000	147	587m – 585m
4th	1200	6,00,000	147	587m – 585m
5th	1200	6,00,000	147	587m – 585m
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	0.36	0.36	0.36	Grass cultivation will be done on it
2	Road	0.005	Nil	Nil	Nil	
3	Green Belt Within Safety Barrier	Nil	0.06	0.06	0.06	Plantation
4	Blocked area due to Rainfed nala Safety	-	0.81	0.81	0.81	Plantation
5	Unutilized	1.225	1.230	Nil	Nil	
	TOTAL	1.230	1.230	1.230	1.230	

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.06 Ha	150 trees @ 2500 trees per Ha
2	Haul /Approach Road	0.17 i.e. Length 250m width 2m	168 trees on both sides – 3m distance
3	Other Reclaimed Area - On Blocked area (due to Rainfed nala)	0.81 Ha	2025 trees @ 2500 trees per Ha



- 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 735 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



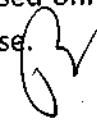


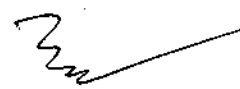
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall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

- Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.




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- b. The water required for the mining activities shall be supplied by the tanker from nearby authorized sources.
- c. The letter issued in respect of District Survey Report (DSR), is issued by the competent authority. I will abide by any directives issued by any court of law in future.
- d. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- i. All the transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- j. If any tree felling than necessary permission shall be taken from the competent authority.
- k. That, I will not disturb the course of the nearby passing Rainfed Nala during my Brick Soil Mining activity.

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 D.K.B. Bricks (Prop. : Sri Devendra Kumar), Village : Champadih, Thana : Lapung, Thana no. : 76, Distt. : Ranchi, Jharkhand (1.23 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

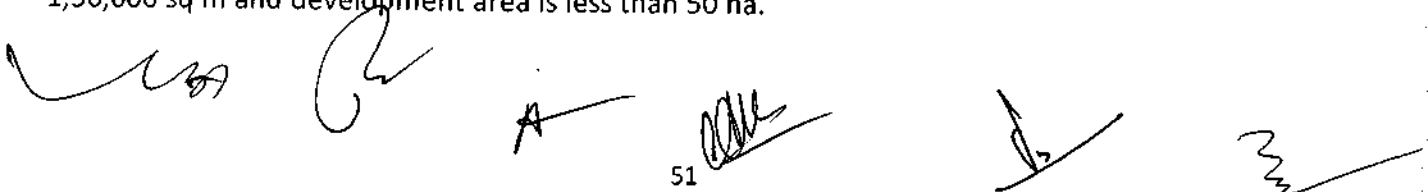
10. "Pranami Crest" of M/s Pranami Builders Pvt. Ltd., Village : Hatma, Tehsil : Ranchi Sahar, Distt. : Ranchi, Jharkhand.

(Proposal no. : SIA / JH/MIS/279779 /2022)

Name of the consultant : Crystal Consultnats, Ranchi

This is a new project which has been taken for appraisal on 16.07.2022

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.



Sailent of the features :

Particular	Details
Project Name	Pranami Crest
Proponent	Pranami Builders Pvt. Ltd. Though its Directors & Himself Bijay Kumar Agarwal, Santosh Kumar Jain, Nitesh Kumar Agarwal, Raj Kumar Agarwal & Sunita Adukia
Type of Building	Residential Building
Latitude	23°23'05.1"N
Longitude	85°20'11.8"E
Plot No.	832, 833, 834, 835, 836, 837, 838, 839 (P) & 840
Khata No.	35
Mauza	Hatma
Tehsil	Ranchi Sahar
District	Ranchi
State	Jharkhand
Plot Area	Total Plot Area as per sale deed is 6474.92 m ²
Plantation	Tree Cover : 972 m ² (15.01% of Plot Area) Playground : 186.18 m ²
Ground Coverage	2222.29 m ² (34.34 %)
FAR	2.99
Height	Block A : 38.80 m Block B : 41.90 m
Total Built-Up Area & its break - up	Total Built- Up Area: 27414.58 m ²
No. of Floor	Block A : B+G + 11 Block B : B +G + 12
No. of Building Block	2
Building Configuration	Total Dwelling Units: 100 3 BHK: 72 4 BHK: 26 6 BHK: 2
Municipal Solid Waste	Total Municipal Solid Waste =414.48 Kg Bio-Degradable = 165.79 Kg Non-Biodegradable= 248.69 Kg
Population	691 (including 10% floating population)
Parking	Total Car Parking : 189 Total Visitor Car Parking : 15 Total Two Wheeler Parking : 146 Area for Parking : 6974.80 m ²
Power Requirement	1325 KVA Source : Jharkhand State Electricity Board
Power Back-up	1000 KVA
Renewal Energy	150 KVA

RWH Pits	02 Pits
Total Water Demand	126.83 KLD
Total Fresh Water Demand	62.17 KLD
Total Treated Water Demand	64.66 KLD
Volume of Waste Water	80.82 KLD
Capacity of STP	85.00 KLD
Project Cost	60.00 Crores
CER budget	1.20 Crores

Population Estimation

During Construction Phase

About 100 people will come to site during working shift.

During operational Phase

Dwelling Units			
3 BHK - 6	4 BHK - 7	6 BHK - 7	Population
72	26	2	628
Total Population (including 10% Floating Population)			691

Municipal Solid Waste

During Construction Phase

During Construction phase of buildings municipal solid waste would be generated.

About 100 people will come to site during working shift.

The estimated Municipal Solid Waste (@0.2 Kg per person per day) is 20 Kg / Day.

Break – Up

Bio-Degradable @ 40% of MSW (8 Kg / Day)

Non-Bio-Degradable @60% of MSW (12 Kg / Day)

Municipal Solid Waste will be handed over to Local Municipal Solid Waste Management Facility.

Bio Degradable & Non-Bio-Degradable waste would be stored in different color bins.

During Operation Phase

Municipal Solid Waste @0.6Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
414.48 KG/Day	165.79 KG/Day	248.69 KG/Day

WATER DEMAND

During Construction Phase

Construction Phase – 29.5 KLD

Potable – 2.5 KLD

Flushing – 2.0 KLD

Construction work – 25.0 KLD
 Source – Municipal Tanker Supply

During Operational Phase

Water Demand (KLD)		Source
Domestic	62.17	Fresh Water
Flushing	31.09	Treated Water
Horticulture	10.00	Treated Water
Dust Suppression	10.00	Treated Water
Vehicle Washing	13.57	Treated Water
Total Water Demand	126.83	
Total Fresh Water Demand	62.17	
Total Treated Water Demand	64.66	

STP & Waste Water Management

STP Calculation

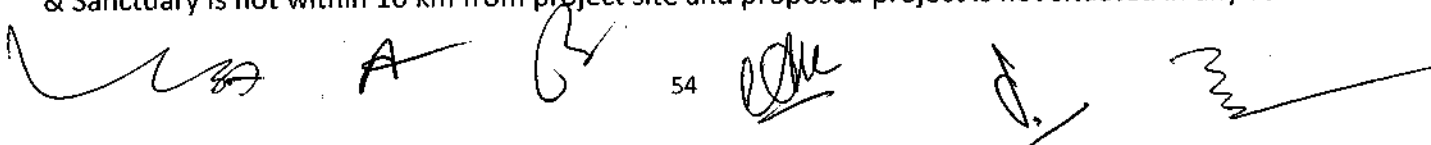

Waste Water (KLD)		STP Capacity (KLD)
Domestic	Flushing	
49.74	31.09	85.00
80.82		

Waste Water Management

Waste Water Management	KLD
Total Treated Water	64.66
Flushing	31.09
Horticulture	10.00
Dust Suppression	10.00
Vehicle Washing	13.57
Discharge	0.00
20 % Loss on account of evaporation, loss in conveyance and processing	16.16

STATUTORY CLEARANCE

- Building Plan Approved by Ranchi Municipal Corporation vide Memo No. RMC/BP/0865/W19/2021, Date 15/06/2022.
- Airport Authority of India issued a height clearance NOC vide its NOC ID –RANC/EAST/B/011322/648355, dated 20/01/2022.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. – 1784/Tech./2022, dated 26/04/2022.
- For DFO, Wildlife Ranchi, Vide Memo No. 1084, Dated 06/12/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

 54 

- For DFO, Ranchi Division vide Letter No. 3386 Dated 03/12/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Sahar, Ranchi vide Letter No. 328, Dated 09/04/2022 has mentioned plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

During the presentation the following documents were sought :

- i. Undertaking affirming that the green belt development area will be increased from the proposed 13.05% to a minimum of 15%.
- ii. Budgetary provision for CER activities.
- iii. Break up of solar energy utilization.

The Project Authorities have submitted the above mentioned documents.

Based on the presentation made and information provided, the Committee decided that the proposal for "Pranami Crest" of M/s Pranami Builders Pvt. Ltd., Village : Hatma, Tehsil : Ranchi Sahar, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

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

11. SDS Enclave of M/s S.D. Singh Construction Company Pvt. Ltd., Village : Asangi, Tehsil : Gamharia, Distt. : Saraikela-Kharsawan, Jharkhand.

(Proposal no. : SIA / JH/MIS/232146 /2021)

Name of the consultant : Crystal Consultnats, Ranchi

This project is listed on 16.07.2022 but on request of PAs it was taken for appraisal on 20.07.2022.

This is a new project which has been taken for appraisal on 20.07.2022

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.

Particular	Details	
Project Name	SDS Enclave	
Proponent	M/s S.D. Singh Construction Company Pvt. Ltd.	
Type of Building	Residential Building	
Latitude	22°48'24.92" N	
Longitude	86°07'32.20"E	
Khata No.	NEW	OLD
	80	9
Plot No.	290, 291, 294 & 295	59, 60, 61 & 62
Mauza	Asangi	
Tehsil	Gamariya	
District	Saraikela Kharsawan	
State	Jharkhand	
Plot Area	14858.10 m ² (as per sale deed)	
Tree Cover	Minimum of 15% of Plot Area	
Ground Coverage	5083.16 m ² (34.21 %)	
Permissible FAR	3.50	
Consumed FAR	2.75	
Height	35 m	
Total Built-Up Area	59834.81 m ²	
No. of Floor	G+9	
No. of Building Block	5	
Building Configuration	3 BHK :336 2 BHK :108 Community Hall : 4	
No. of Tenement	448	
Population	2556	
Municipal Solid Waste	1533.60 Kg	
Parking	4 Wheeler : 579 4 Wheeler (Visitor) : 55 2 Wheeler : 789 Area for Parking : 19764.56 m ²	

Power Requirement	3484.5998 KW Source – Jharkhand State Electricity Board
Power Back-up	725 KVA 3 DG Set (300 KVA + 300 KVA + 125 KVA)
Solar Power use	54 KVA (1.3% of total power consumption)
RWH Pits	3 Pits
Fresh Water Demand	230.04 KLD
Treated Water Demand	239.24 KLD
Total Water Demand	469.28 KLD
Capacity of Waste Water	299.06 KLD
Capacity of STP	350.00 KLD
Project Cost	Rs 70.77 Crores

POPULATION ESTIMATION

Type of Building	3BHK @ 6 Person	2BHK @5 Person	Population as per NBC
Block A1	108	0	648
Block A2	108	0	648
Block B	72	108	972
Block C	48	0	288
TOTAL	336	108	2556

MUNICIPAL SOLID WASTE

During Construction

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

During Operational

Municipal Solid Waste @0.6Kg per Person	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
1533.60 Kg	613.44 Kg	920.16 Kg

Water Demand

Water Demand (KLD)		Source
Domestic	230.04	Fresh Water
Flushing	115.02	Treated Water

Horticulture	50.00	Treated Water
Dust Suppression	5.00	Treated Water
Car Washing	50.00	Treated Water
Discharge	19.22	Treated Water
Total	469.28	
Fresh Water Demand	230.04	
Treated Water Demand	239.24	

Source for Fresh Water: Municipal Water Supply System

WASTE WATER & STP CALCULATION (KLD)

STP Calculation (KLD)			
Total Domestic Water	230.04	184.03	80% of Domestic Water is Waste Water
Total Flushing Water	115.02	115.02	100% of Flushing Water is Waste Water
Total Volume of Waste Water		299.05	
STP Capacity		350	
Treated Water Demand		239.24	80% of Volume of Waste Water
Loss		59.81	20% loss on account of evaporation, loss in conveyance and processing

Proposed Project Cost Analysis Report.

Sl.No	Project Details.	Approx Cost (in Rs)
1.	Land Cost.	2021
2.	Civil, Structural, Electricals and Complete Construction.	4545
3.	Fire fighting, fire alarm, fire suppression.	55
4.	External services, road, drain, rainwater harvesting.	390
5.	STP & Water tanks.	32
6.	Green belt & Plantation.	11
7.	Solid Waste Management.	23
	Total	7077 Lakhs Rs. 70.77 Crore.

STATUTORY CLEARANCE

- Building Plan Approved by Adityapur Municipal Corporation vide Memo No. AMC/GH/0078/W10/2018 dated 08/05/2020.
- Airport Authority of India issued a height clearance NOC vide its NOC ID –JAMS/EAST/ST/B/111921 /636096, dated 08/12/2021.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. – 1590/Tech., dated 18/09/2018.

- For DFO, Dalma Elephant Project Vide Letter No. : 769, Dated 02/06/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- For DFO, Seraikella Forest Division vide Letter No. 1732, Dated 09/09/2021 certified that the distance of reserved / protected forest is 20 m from proposed project site.
- The CO, Gamharia vide Letter No. 473 Dated 07/05/2021 has mentioned plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

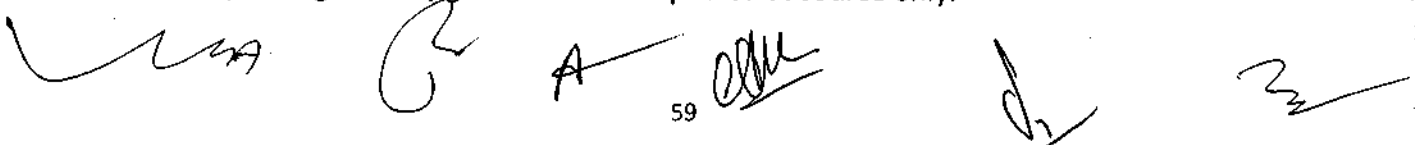
During the presentation the following documents were sought :

- i. Undertaking affirming that the green belt development area will be increased from the proposed 3.70% to a minimum of 15%.
- ii. Revised landscape map to be submitted with 15% green belt cover.

The Project Authorities have submitted the above mentioned documents.

Based on the presentation made and information provided, the Committee decided that the proposal for SDS Enclave of M/s S.D. Singh Construction Company Pvt. Ltd., Village : Asangi, Tehsil : Gamharia, Distt. : Saraikela-Kharsawan, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

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



- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

12. (i) Vasundhara Elegance (ii) Vasundhara Megamart (iii) Vasundhara Radiance of M/s Vasundhara Homes Pvt. Ltd. at Mouza : Argora, Tehsil : Argora, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/282659/2022).

Name of the consultant : Crystal Consultnats, Ranchi

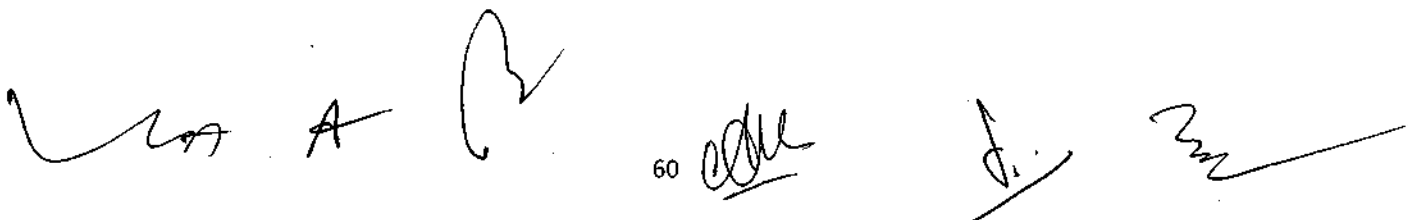
Presentation made was not as per ToR conditions. The consultant was asked to revise the presentation as per ToR conditions.

13. P & M Hi-Tech City Centre Mall of M/s P & M and Hi-Tech Infrastructures LLP at Mauza : Jugsalai, Tehsil : Dhalbhum, Dist. : East Singhbhum, Jharkhand.

(Proposal No : SIA/JH/MIS /281936/2022).

Name of the consultant : Crystal Consultnats, Ranchi

Presentation made was not as per ToR conditions. The consultant was asked to revise the presentation as per ToR conditions.


 A series of handwritten signatures and initials in black ink, including a large stylized signature, the letter 'A', a large 'B', the number '60', and several other illegible signatures.

Day 3 : July 17th , 2022 [Sunday]

Consideration of Proposals

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

(Proposal No : SIA/JH/MIS/271491/2022).

This is a case of violation which has been taken for appraisal on 17.07.2022

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

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

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

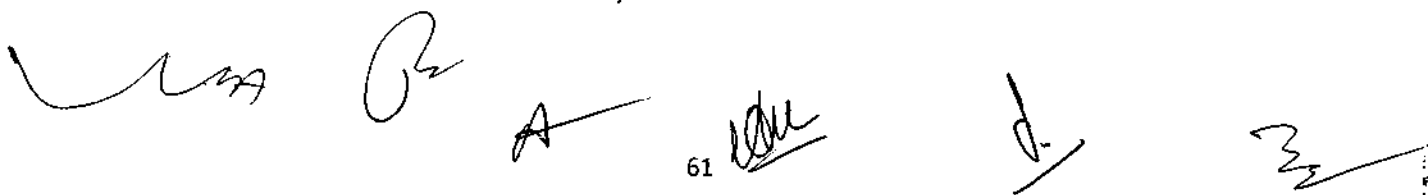
Thus, the SEIAA, Jharkhand, in the light of Ho'ble Supreme Court order dated 9th December 2021, Office Memorandum no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India and Standard Operating Procedure (SOP) issued by MoEF&CC, Govt. of India vide its file number 22-21/2020-IA-III,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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the violation ToR in 94th meeting held on 13th , 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 101, date 16.04.2022. The final EIA / EMP submitted by PAs to SEIAA on 07.05.2022 and received by SEAC on 07.05.2022.

EC Application for: Residential buildings: Total built-up area of 45753.62 m² (Existing 11438.4 sq.m)

Name of the consultant: P & M SOLUTION, Noida

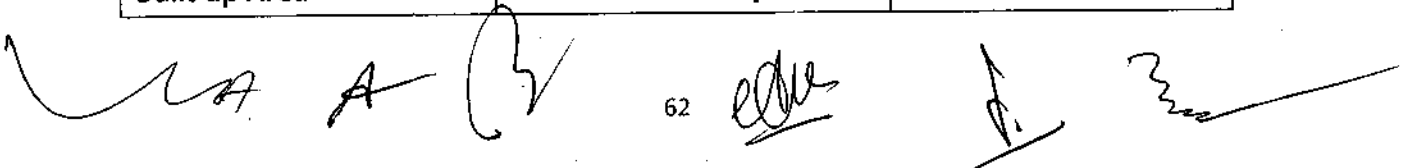


Salient Features of the Project :

Parameters	Description
Plot Area	11238.20 m ² (approx. 2.78 acre)
Project Cost	INR 68.92 Crores
Built-up Area	45753.62 m ²
Green Area	2341.54 m ² (@ 20.83% of plot area)
Population	4195
Water Requirement	297 KLD
Fresh Water Requirement	212 KLD
Wastewater Generation	245.8 KLD
STP Capacity	300.0 KLD
Total Municipal Waste	1553.75 kg/day
Power Requirement	1690 KVA (Jharkhand State Electricity board)
DG Sets	2 no. of DG set of Total 760 kVA
RWH Pits	04 no.
Parking	612 no.
Connecting road	The project site is well connected with Boreya Road.
National Highway	NH-20, 4.50 km SE SH-2, 3.50 km W
Nearest Railway Station	Ranchi Railway station, 7.47 km, SW
Airport	Birsa Munda Airport, (11.39 km, S)
Nearest Hospitals	RIMS-3 (48 Km, S)
Nearest Water Bodies	Potpoto River (0.50 km, NW) Jumar River (2.50 km, N) Subarnarekha River (9.50, S)

Area Summary :

Particular	Proposed	Permissible
Plot Area	11238.20 sqm	
Net Plot Area	11238.20 sqm	--
Ground Coverage	3526.30(31.38%)	5619.01 (50%)
FAR (Floor Area Ratio)	39324.55(3.5)	39333.07 (3.5)
Built up Area	45753.62 sqm	--



Maximum Height	41 m	--
Road Area	3881sqm	--
Stilt Parking	2571.92 sqm	
Open Parking	1753.5 sqm	
Total Parking	4325.42 sqm	2376.50 sqm
Green Belt Area	2341.54(20.83%)	2247.67(20%)
Maximum No. of Floor	S+13	--
Power/Electricity Requirement & Sources	1690 KVA	--
No. of DG sets	2x380 KVA	--
Water requirement	212.0 KLD (Fresh)	--
Sewage Treatment Plant	STP Capacity - 300 KLD	--
Estimated Population- Residential, Commercial, Floating / Visitors	4195 nos.	--

Built up area details :

Sl. No.	Floor Name	Building Name				Total Built up Area (sqm)
		A (Building)	B (Building)	C (Building)	D (Building)	
1	Ground Floor	878.28	936.96	798.33	928.94	3542.51
2	1 st Floor	894.04	882.8	750.60	1022.79	3550.23
3	2 nd Floor	806.55	882.8	736.74	808.74	3234.83
4	3 rd Floor	806.55	882.8	736.74	807.34	3233.43
5	4 th Floor	806.55	882.8	736.74	807.34	3233.43
6	5 th Floor	806.55	882.8	736.74	807.34	3233.43
7	6 th Floor	806.55	882.8	736.74	807.34	3233.43
8	7 th Floor	806.55	882.8	736.74	807.34	3233.43
9	8 th Floor	806.55	882.8	736.74	807.34	3233.43
10	9 th Floor	806.55	882.8	736.74	807.34	3233.43
11	10 th Floor	806.55	882.8	736.74	807.34	3233.43
12	11 th Floor	806.55	882.8	736.74	807.34	3233.43
13	12 th Floor	806.55	882.8	736.74	807.34	3233.43
14	13 th Floor	806.55	741.12	736.74	807.34	3091.75
15	Terrace Floor					
Total		11450.92	12271.68	10389.91	11641.21	45753.62

CO-ORDINATES

1	Latitude	From 23°25'05.20"N	To 23°25'07.0"N
2	Longitude	From 85°20'50.00"E	To 85°20'55.40"E

LAND DETAILS

1	Village - Boreya, Tehsil- Kanke	Khata No.	Plot No.
		298	1874, 1875
		369	1877

STATUTORY CLEARANCES

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 2207, dated 19.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 709, dated 13.08.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Kanke, Ranchi vide letter no. 425, dated 24.06.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
4	AAI NOC	:	Airport Authority of India has issued NOC vide letter no RANC/EAST /B/122718/ 358660, dated 27.12.2018.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 122/tech/2019 dated 13.01.2019
6	CGWA	:	The CGWA has issued a NOC vide letter no. CGWA/NOC/INF/ORIG/ 2022/14339, dated 18.01.2022
7	Building Plan	:	Ranchi Municipal Corporation has approved building plan vide memo no. RMC/BP/0371/W04/2018, dated 11.04.2019

Water and waste water Requirement Details

Sl. No.	Description	Total Population	Per Capita Consumption (ltr/day)		Water Requirement (KLD)		
					Domestic	Flushing	Total
1.	Apartments	2795 nos.	Fresh	Flushing (21)	181.675	58.695	240.37

			(65)				
2.	Club	300 nos.	Fresh (25)	Flushing (20)	7.50	6.00	13.50
3.	Floating	300nos	Fresh (5)	Flushing (10)	1.50	3.00	4.50
4.	Staff	150 nos.	Fresh (25)	Flushing (20)	3.75	3.00	6.75
5.	Permanent Population (Shopping)	150 nos.	Fresh (25)	Flushing (20)	3.75	3.00	6.75
6.	Transient Population (Shopping)	500 nos.	Fresh (5)	Flushing (10)	2.50	5.00	7.50
7.	Filter Backwash				6.00		6.00
8.	Makeup Water for Swimming Pool				5.00		5.00
9.	Horticulture					5.86	5.86
TOTAL					211.675	84.55	296.23
					≈ 212	≈ 85	≈ 297

Details	Water (KLD)
Water requirement for domestic purpose	212.0
Wastewater generated from domestic use (@ 80% of domestic water requirement)	160.8
Water requirement for Flushing Purpose	85.0
Wastewater generated from Flushing (@ 100% of flushing requirement)	85.0
Total Wastewater generated	160.8+85 = 245.8 KLD
STP Capacity (by adding 20% as per MoEF)	294.8
STP Capacity proposed (STP Layout design is attached in	300.0 KLD

Solid Waste Requirement

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	2795 @ 0.45 kg/day	1257.75
2.	Floating Population	300 @ 0.15 kg/day	45.0
3.	Others (Club House, Staff, Shopping)	1100 @ 0.15 kg/day	165.0
3.	STP sludge		86.0
TOTAL SOLID WASTE GENERATED			1553.75kg/day

ENVIRONMENT MANAGEMENT**Green Belt Development**

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 2341.54 m² (@ 20.83% 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 recyclers.

During Operation Phase

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

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- 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. 300.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 212.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

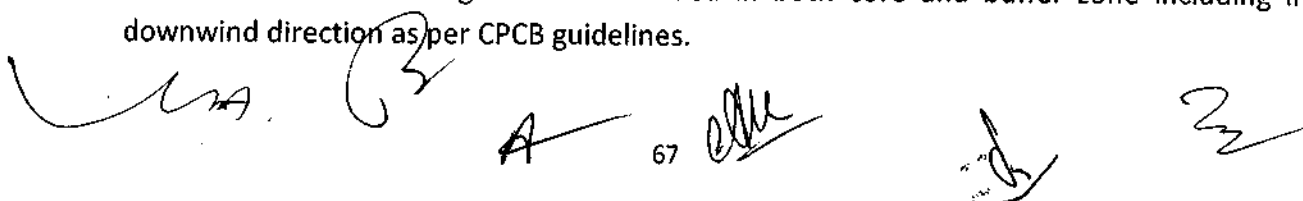
- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by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

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx 21 Nos of solar panels will be used to save around 10 % of the total power requirement).

Earlier this proposal was presented in SEAC on 10-14.05.2022 in which requisite documents were sought are under –

- PA's to submit environmental damage assessment as per CPCB guidelines.
- PA's to submit status of construction of individual towers separately certified by RMC / Competent Authority empanelled Architects only. PA's are also required to submit data of commencement of project activity.
- PA's also to submit Financial audit statement certified by registered CA's only for cost incurred in completing the stated construction with supported documents.
- Environmental monitoring locations decided in both core and buffer zone including in downwind direction as per CPCB guidelines.

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- v. Committee has decided to undertake Site inspection on notified date and time before finalizing its recommendations.

The Project Authorities have submitted the above mentioned documents.


The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 70.25 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	i. For augmenting the treatment of Diseases due to uncontrolled emissions of Particulate Matter PM10 and PM2.5, Providing X-ray machine in the local Hospital a Rs.17 Lakh has been allotted to for treatment of respiratory disease.	17.00
		ii. Carpeting of the immediate nearby road blacktop provision of Rs. 30 Lacs has been provided for and area of 3600 Sqm (Length 400 Rm width 9 Rm)	30.00
3	Soil Environment	i.Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types of trees. a provision of Rs. 7 Lacs has been done.	7.00
4.	Socio-Economic Environment	i. In the neighborhood Govt. School to educate the children about the sustainable environment practices and to establish science and computer lab. A provision of Rs. 7 Lacs has been done.	7.00
5.	Energy conversation	ii. Rooftop Solar panel to generate solar energy and feed directly to the grid and also providing net meter to assess the saving of normal electricity a provision of Rs. 7.25 Lacs.	7.25
Total cost Rs. In Lacs			70.25

- I. The Committee visited the project site on 15.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 70.25 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 70.25 Lakh towards remediation plan and natural and community resource augmentation plan

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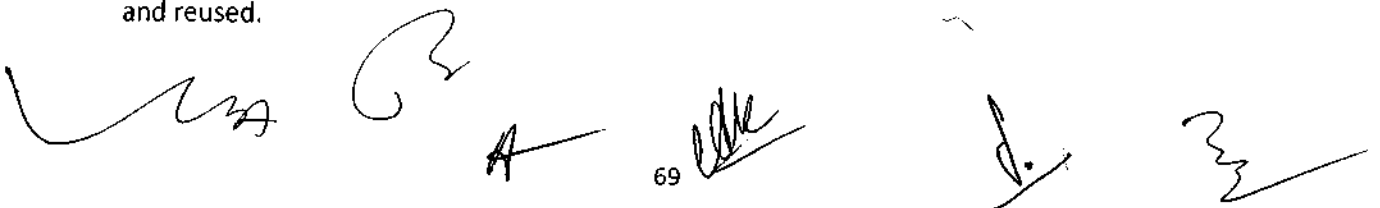


with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.

- IV. The bank guarantee shall be released after successful completion of remediation plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- IX. The penalty of rupees 32.65 Lakh being 1% of the project cost (Rs. 32.65 Crores) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- X. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made, information provided and site visit, the Committee decided that the proposal for Affordable Housing Project "Assotech Hills Sec-1" of M/s Assotech Sun Growth Abode LLP at Tagore Hill Road (Adjoining Bank Colony), Village : Boreya, Tehsil : Kanke, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- XI. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- XII. All raw material to be stored only under covered shed.
- XIII. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- XIV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- XV. Trees should be developed & maintained not less than 15% of project area.
- XVI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- XVII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.

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- XVIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- XIX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- XX. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

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

(Proposal No : SIA/JH/MIS/282197/2022).

Name of the consultant: P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.

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

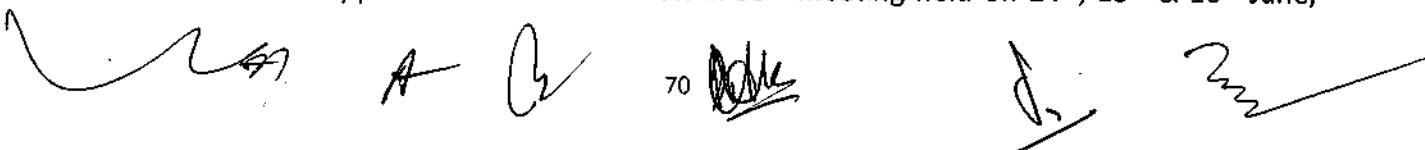
However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 94th meeting held on 10-14.05.2022 and SEIAA, Jharkhand has approved the **violation ToR** in 95th meeting held on 14th, 15th & 16th June,



2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 147, date 18.06.2022. The final EIA / EMP submitted by PAs to SEIAA on 12.07.2022 and received by SEAC on 13.07.2022.

EC Application for: **Residential buildings: Total built-up area of 90996.97 m²**

PROJECT and LOCATION Details:

Parameters	Description
Plot Area	18857.11 m ²
Khata No.	Khata No. 61, 74, 76, 237, 256, 311, 356, 480 & 589 Plot No. - 1954, 1955, 1867, 1956, 1962, 1961, 1957, 1958, 1960, 1859, 1959, 1860, 1861, 1856, 1865, 1864, 1853, 1857, 1858
Project Cost	INR 165 Crores
Built-up Area	90996.97 sqm
Green Area	3500.0 m ² (@ 21.45 % of plot area)
Population	5130
Water Requirement	375.7 KLD
Fresh Water Requirement	276.0 KLD
Wastewater Generation	314.9 KLD
STP Capacity	350.0 KLD
Total Municipal Waste	1918.0 kg/day
Power Requirement	1690 KVA (Jharkhand State Electricity board/Chaliyama Steel plant)
DG Sets	1130 KVA (1 x 750 KVA + 1 x 380 KVA)
RWH Pits	05 no.
Parking	785 no.
Connecting road	The project site is well connected with Boreya Road.
National Highway	NH-20, 4.50 km SE SH-2, 3.50 km W
Nearest Railway Station	Ranchi Railway station, 7.47 km, SW
Airport	Birsa Munda Airport, (11.39 km, S)
Nearest Hospitals	RIMS-3 (48 Km, S)
Nearest Water Bodies	Potpoto River (0.50 km, NW)

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	Jumar River (2.50 km, N)
	Subarnarekha River (9.50, S)

CO-ORDINATES

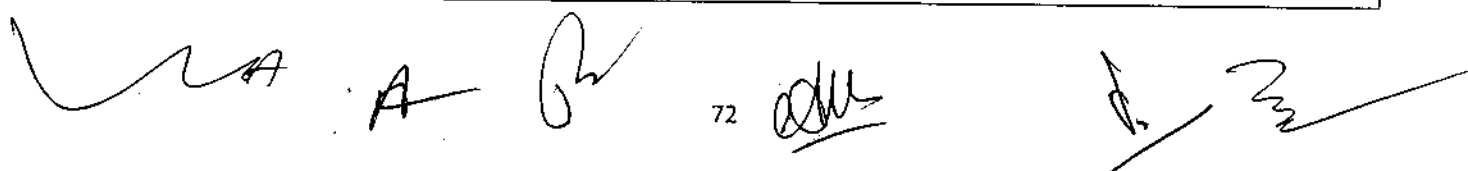
1	Latitude	From 23°25'01.30"N	To 23°25'05.48"N
2	Longitude	From 85°21'01.10"E	To 85°21'07.00"E

LAND DETAILS

Khata no.	Plot no.
356	1955, 1864
311	1956, 1957, 1961, 1962
589	1958, 1960
61	1853, 1858
74	1856
76	1857
480	1859, 1959
237	1861, 1860
256	1867

STATUTORY CLEARANCES

1	DFO Certificate	:	DFO, Ranchi Forest division vide letter no. 1050 dated 27.02.2020 certified that the distance of reserved/protected forest is more than 250 m from project site.
2	DFO wildlife	:	DFO, Wildlife Ranchi division vide memo no. 108 dated 06.02.2020 certified that national park & sanctuary is not within 10 km from the project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Kanke, Ranchi vide letter no. 425(ii), dated 24.06.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
4	AAI NOC	:	Airport authority of India issued NOC vide NOC ID RANC/EAST/B/020119/368483 dated 04.02.2019
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 550/tech/2019 dated 28.02.2019



6	Building Plan	:	Ranchi Municipal Corporation has approved building plan vide memo no. RMC/AH/1541/W04/2019, dated 30.12.2020
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Water and waste water Requirement Details

Sl. No.	Description	Total Population	Per Capita Consumption (ltr/day)		Water Requirement (KLD)		
			Fresh	Flushing	Domestic	Flushing	Total
1.	Apartments	3620 nos.	Fresh (65)	Flushing (21)	235.3	76.02	311.32
2.	Club	440 nos.	Fresh (25)	Flushing (20)	11.0	8.8	19.8
3.	Floating	370nos	Fresh (5)	Flushing (10)	1.85	3.7	5.55
4.	Staff	200 nos.	Fresh (25)	Flushing (20)	5.0	4.0	9.0
5.	Permanent Population (Shopping)	110 nos.	Fresh (25)	Flushing (20)	2.75	2.20	4.95
6.	Transient Population (Shopping)	420 nos.	Fresh (5)	Flushing (10)	2.1	4.2	6.3
7.	Office Population	40 nos.	Fresh (25)	Flushing (20)	1.0	0.8	1.8
7.	Swimming Pool				10.0	-	10.0
8.	Filter Backwash				7.0	-	7.0
TOTAL					276.0	99.7	375.7

Details	Water (KLD)
Water requirement for domestic purpose	276.0
Wastewater generated from domestic use (@ 80% of domestic water requirement)	215.2
Water requirement for Flushing Purpose	99.7
Wastewater generated from Flushing (@ 100% of flushing requirement)	99.7
Total Wastewater generated	215.2+99.7 = 314.9 KLD
Recycled water form STP @ 90% of wastewater generated	283.41KLD

Solid Waste Requirement

S. No.	Category	Counts (heads)	Waste generated (kg/day)

1.	Residents	3550 @ 0.45 kg/day	1597.5
2.	Floating Population	370 @ 0.15 kg/day	55.5
3.	Others (Club House, Staff, Shopping)	1100 @ 0.15 kg/day	165.0
3.	STP sludge		100
TOTAL SOLID WASTE GENERATED			1918 kg/day

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 3500.0 m² (@ 21.45 % 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 recyclers.

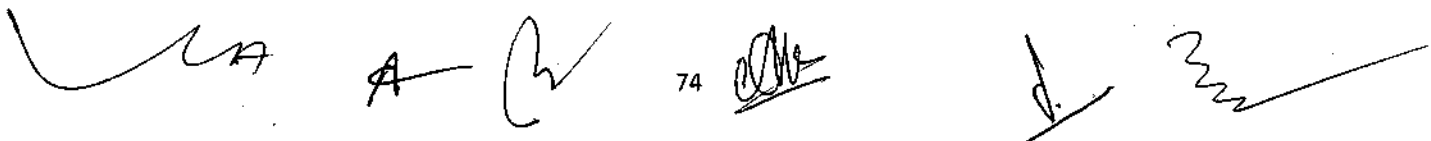
During Operation Phase

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

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Laborers.


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- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 350.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 276.0 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

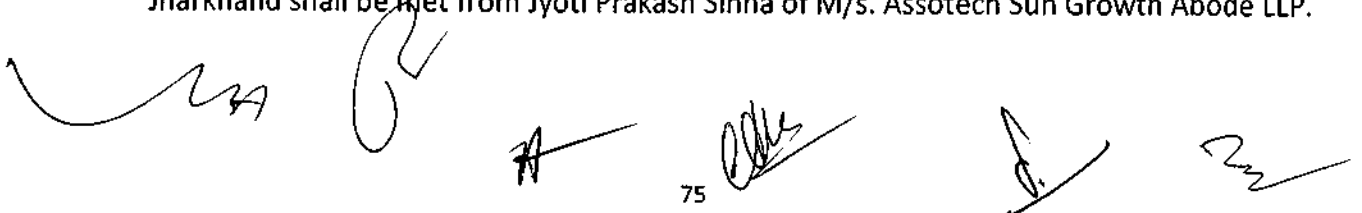
- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by 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 approx 15.40 % of energy will be saved.

Undertaking

1. An affidavit stating that no construction work.
2. An undertaking that 283.41 m³/day recycles waste water generated at Proposed Affordable Housing Project "Assotech Hills Sec-2" over Khata No. 61, 74, 76, 237, 256, 311, 356, 480 & 589, Plot No. - 1954, 1955, 1867, 1956, 1962, 1961, 1957, 1958, 1960, 1859, 1959, 1860, 1861, 1856, 1865, 1864, 1853, 1857, 1858 of Tagore Hill Road (Adjoining Bank Colony) Boreya, Ranchi, Jharkhand shall be met from Jyoti Prakash Sinha of M/s. Assotech Sun Growth Abode LLP.
3. An undertaking that 2750 KVA Power requirement in Proposed Affordable Housing Project "Assotech Hills Sec-2" over Khata No. 61, 74, 76, 237, 256, 311, 356, 480 & 589, Plot No. - 1954, 1955, 1867, 1956, 1962, 1961, 1957, 1958, 1960, 1859, 1959, 1860, 1861, 1856, 1865, 1864, 1853, 1857, 1858 of Tagore Hill Road (Adjoining Bank Colony) Boreya, Ranchi, Jharkhand shall be met from Jyoti Prakash Sinha of M/s. Assotech Sun Growth Abode LLP.



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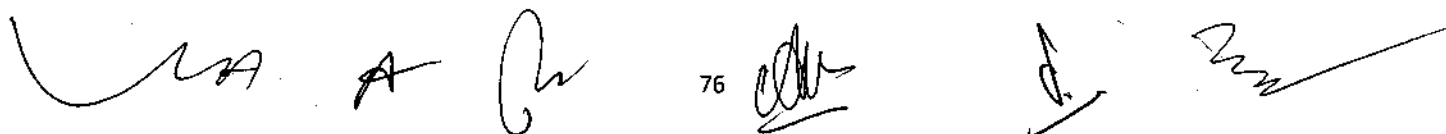
The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 35.35 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	i. Carpeting of the immediate nearby road blacktopping and base provision of Rs. 20 Lacs has been provided for and area of 2400 Sqm (Length 265 Rmt, width 9 Rmt)	20.00
2	Water Environment	i. Construction of rainwater harvesting pits 02 Nos in the surrounding area to recharge the ground directly by channelizing the rainwater flow in the slop before water getting wasted.	4.00
3	Soil Environment	i. Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types of trees. a provision of Rs. 5 Lacs has been done.	5.00
4.	Socio-Economic Environment	i. I in the neighborhood Govt. School to educate the children about the sustainable environment practices and to establish science and computer lab. A provision of Rs. 3 Lacs has been done.	3.00
5.	Energy conversation	i. Rooftop Solar panel to generate solar energy and feed directly to the grid and also providing net meter to assess the saving of normal electricity a provision of Rs. 3.35 Lacs.	3.35
Total Cost Rs. In Lacs			35.35

- I. The Committee visited the project site on 15.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 35.35 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 35.35 Lakh towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remediation plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.

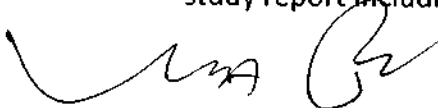
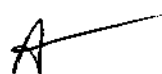
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- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- IX. The penalty of rupees 2,93,696 being 1% of the capital investment incurred till date (Rs. 2,93,69,600) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- X. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided and site visit, the Committee decided that the proposal for Affordable Housing Project "Assotech Hills Sec-2" of M/s Assotech Sun Growth Abode LLP at Tagore Hill Road (Adjoining Bank Colony), Village : Boreya, Tehsil : Kanke, Dist : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.




- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

3. Green Residential Project "Estate Eco Symphony" of M/s Estate Buildcon Pvt. Ltd., Village : Gari, Tehsil : Sahar (Bargain), Distt. : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/271526/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.

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

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

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

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

Green Residential Project "Estate Eco Symphony" located at plot no. Plot Nos. 24 &25, Cheshire Home Road, Bariatu, Village - Gari, Tehsil – Ranchi Sahar (Bargain), District - Ranchi, Jharkhand by M/s Estate Buildcon Pvt. Ltd. on a plot area of 6552.79 m². The total built up area of the project is 29955 m². Approx.100% part of the project has already been constructed. So the project has been applied under violation case.

Project Category : (a) Category B2 (considered as B1 due to violation).

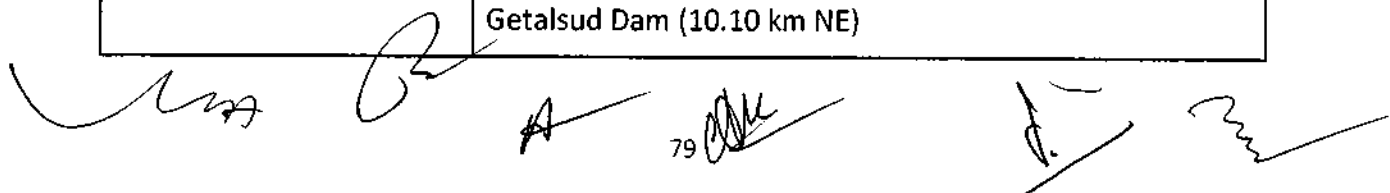
The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the violation ToR in 94th meeting held on 13th, 14th & 15th April,

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2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 82, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 07.05.2022 and received by SEAC on 07.05.2022.

Salient Features of the Project :

Parameters	Description
Plot Area	6552.79 sq.m.(or 1.62 acres)
Khata No.	Khata no. 135 & Plot Nos. 24 & 25
Project Cost	INR 50.24 Crores
Built-up Area	29955.79 m ²
Green Area	1411.4 sq m (@21.54% of plot area) and additional approx. 1278.1 m ² of terrace green area.
Population	720
Water Requirement	97 KLD
Fresh Water Requirement	61 KLD
Wastewater Generation	75 KLD
STP Capacity	100 KLD
Total Municipal Waste	761 kg/day
Power Requirement	1500 KVA (Jharkhand State Electricity board)
DG Sets	2 no. of DG set of Total 200 KVA
RWH Pits	06 no.
Parking	322 no.
Connecting road	Project site is well connected with road. Site abuts the adjacent road in South direction.
National Highway	NH-20(2 km, E) Adjacent road (in South Direction)
Nearest Railway Station	Ranchi junction Railway station, (6.16 km, S)
Airport	Birsa Munda Airport, (9.81 km, S)
Nearest Hospitals	Orchid medical centre (4.04 km, SW)
Nearest Water Bodies	Kanke Dam (5.20 km, E) Getalsud Dam (10.10 km NE)





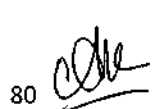

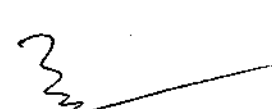
	Ranchi Lake (5.66 km, N) Jumar River (4 km, NE) Subarnarekha River (4.81 km SSE)
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Area Summary :

Sl. no.	Description	Area (SQ M)
A.	Plot Area(B+F+G)	6,552.79
B.	Proposed Ground Coverage (@26.41% of net plot area)	1730.44
C.	Proposed FAR (@ of plot area	20673.58
D.	Non FAR (Strain case, Lift, Balcony, Ramp, Accessory Use, Parking, Basement Parking)	9282.21
E.	Built-up Area (C+D)	29955.79
F.	Ground Green Area (@21.54%)	1411.4
	Terrace green area	1278.1
	Total Green area	2689.5
G.	Total Hardscape area (Road, STP, OWC, Pool, Transformer, Main Gate, guard room, Open parking e.t.c(52.05 % of the plot area)	3410.95
H.	Highest Building (Excluding parapet)	48.1 m
I.	No of Dwelling Units	139

Block Wise Dwelling Units Details :

Sl. no.	Building Blocks (Residential Building)	Number of Floors	DU's
1.	Block A (B+S+GF+11Terrace Floor)	12	88
2.	Block B (B+S+GF+15Terrace Floor)	16	15
3.	Block C (B+S+GF+13Terrace Floor)	14	36
	Total		139

CO-ORDINATES :

1	Latitude	From 23°21'0.8"N	To 23°21'3.1"N
2	Longitude	From 85°17' 22.8"E	To 85°17' 26.8"E

LAND DETAILS :

1	Village - Gari, Tehsil - Ranchi Sahar (Bargain), District - Ranchi	Khata no. 135	Plot Nos. 24 & 25
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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	625	135	85	60	25
Staff	32	45	2	0.6	1.4
Visitors	63	15	1	0.7	0.3
Total Domestic Water Demand			88	61	27
Landscape	1411.4 Sq.m	3ltr/sqm	5	-	5
Fire Fighting			1	-	1
DG cooling	400KVA (1*200KVA + 1*200 KVA)	0.9 l/kVA/hr	3	-	3
Total		-	97	61	36

Category	Total Quantity (KLD)
Domestic water Req.	23
Flushing water Req.	11
Sewage generation (@80% of the fresh + 100% flushing water requirement)	30
Capacity of STP	40

Recovered water from STP (90% of Waste water)	27
1. Flushing	11
2. Landscaping	5
3. Fire Fighting	1
4. DG cooling	3
5. Road washing/sewer	7

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	625	0.5	313	250	63
2.	Staff	32	0.25	8	6.4	1.6
3.	Visitors	63	0.15	10	8	2
4.	Landscape waste	0.34 acres	0.2 kg/acres	1	1	-
5.	STP sludge	100 KLD	--	9	7	2
Total Waste Generated				341	272	69

ENVIRONMENT MANAGEMENT

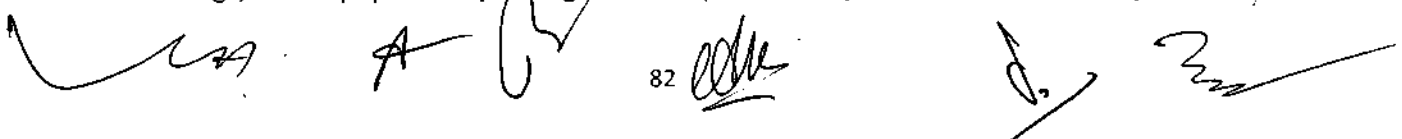
Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1411.4 sq m (@21.54% of plot area) and additional approx. 1278.1 m² of terrace green area, which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

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



During Operation Phase

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

Water Quality Management

During Construction Phase


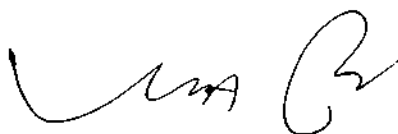
- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 40.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 23.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

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



Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 18 Nos of solar panels will be used to save around 10 % of the total power requirement).

Statutory Clearances :

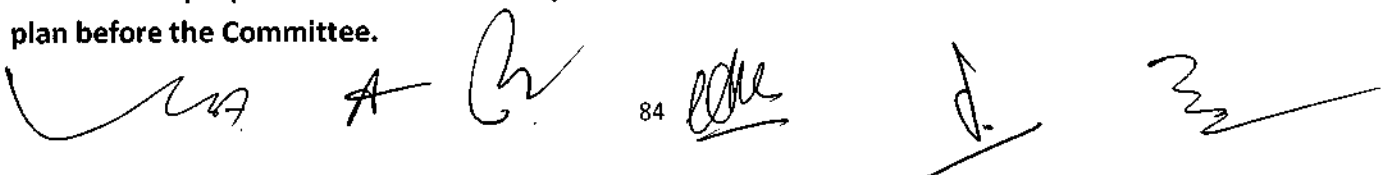
1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 393, dated 07.02.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 148, dated 21.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Baragai, Ranchi vide letter no. 691, dated 06.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
4	AAI NOC	:	Airport Authority of India has issued NOC vide letter no RANC/EAST/B /032818/ 291828 dated 28.03.2018
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 413/tech dated 04.04.2018.
6	Building Plan approval	:	Ranchi Municipal Corporation has approved building plan vide memo no. BP/RMC/ 0277/2018, dated 30.07.2018

Earlier this proposal was presented in SEAC on 10-14.05.2022 in which requisite documents were sought are under –

- i. PA's to submit environmental damage assessment as per CPCB guidelines.
- ii. PA's to submit status of construction of individual towers separately certified by RMC / Competent Authority empanelled Architects only. PA's are also required to submit data of commencement of project activity.
- iii. PA's also to submit Financial audit statement conducted by registered CA's only for cost incurred in completing the stated construction with supported documents.
- iv. Environmental monitoring locations decided in both core and buffer zone including in downwind direction as per CPCB guidelines.
- v. Committee has decided to undertake Site inspection on notified date and time before finalizing its recommendations.

The Project Authorities have submitted the above mentioned documents.

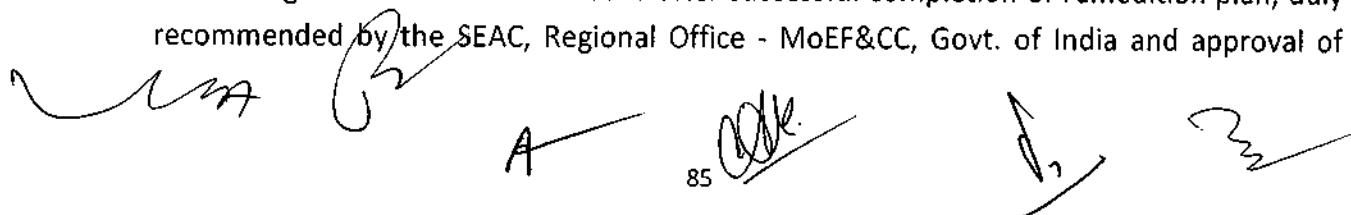
The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.



On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 80 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1.	Air Environment	Paving the sides of immediate nearby road with pavers to prevent dust or Carpeting of the immediate nearby road blacktop provision of Rs. 30 Lacs has been provided for an approximate area of 3,500 to 4,000 Sqm	30.00
2.	Soil Environment	Provide Organic waste Composter (OWC) in immediate neighborhood for processing of organic waste. Provide large bins for organic waste and recyclable waste Prevent direct loss to soil environment due to water erosion, by plantation of various types of trees and creation of green belt	07.00 04.00
3.	Water Environment	Construction of rainwater harvesting pits 6 Nos in the surrounding area to recharge the ground directly by channelizing the rainwater flow in the slop before water getting wasted	09.00
4.	Socio-Economic Environment	To Impart education about the sustainable environment practices and to establish science and computer lab. A provision of Rs. 10 Lacs has been done	10.00
5.	Energy conversation	Rooftop Solar panel to generate solar energy and feed directly to the grid and also providing net meter to assess the saving of normal electricity a provision of Rs. 20 Lacs.	20.00
		TOTAL COST RS. IN LACS	80.00

- I. The Committee visited the project site on 15.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 80 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 80 Lakh towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remedition plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of



regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.

- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- XI. The penalty of rupees 39,46,525.02 being 1% of the capital investment incurred till date (Rs. 39,46, 52,502) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- IX. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided site visit, the Committee decided that the proposal for Green Residential Project "Estate Eco Symphony" of M/s Estate Buildcon Pvt. Ltd., Village : Gari, Tehsil : Sahar (Bargain), Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.

- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

4. Affordable Housing for LIG and EWS "Global Platinum Argora Ranchi" of M/s Global Infra, Village : Argora, Tehsil : Argora, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/ 282654 /2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.

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

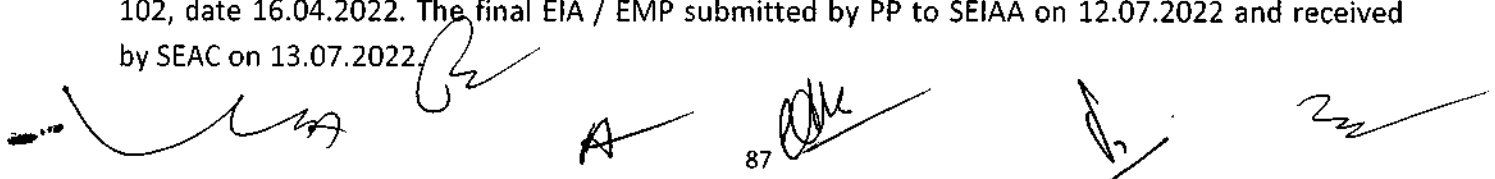
However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the **violation ToR** in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 102, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 12.07.2022 and received by SEAC on 13.07.2022.



EC Application for : Residential buildings: Total built-up area of 35916.12 sq m. (21549.67 sq m. + 14366.44 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	8180.41 m ² (approx. 2.021 acre)
Project Cost	INR 40 Crores
Built-up Area	35916.12 m ²
Green Area	713 sq m (@10% of balance plot area)
Population	1595
Water Requirement	207 KLD
Fresh Water Requirement	143KLD
Wastewater Generation	191.0 KLD
STP Capacity	210.0 KLD
Total Municipal Waste	784 kg/day
Power Requirement	600 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 250 KVA
RWH Pits	03 no.
Parking	475 no.
Connecting road	The project site is well connected with road. 12.5 m wide road abuts project site in North direction.
National Highway	NH-75, 1.0 km E 12.5 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.9 km, E)
Airport	Birsa Munda Airport, (4.6 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) . Raj Hospital (3.58 km, E)
Nearest Water Bodies	Ranchi Lake (3.29 km, NE) Dhurwa Dam (6.9 km, SSW) Kanke Dam (5.1 km, N)

Area Summary :

S. No.	Description	Area (sq m)
1.	Plot Area	8180.41

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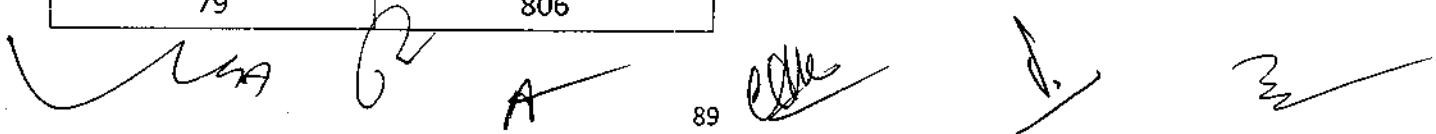
2.	Surrendered for road widening	209.89
3.	Net Plot Area	7970.52
4.	Common Plot	840.47
5.	Balance plot area (1-2-3)	713005
6.	Permissible Ground Coverage (@50% of net plot area)	3985.26
7.	Proposed Ground Coverage (@34.85% of net plot area)	2777.44
8.	Permissible FAR (@3.5 of plot area)	28631.43
9.	Proposed FAR (@3.24 of plot area Residential FAR Amenity building	26533.74 26067.14 465.60
10.	Non FAR Area (including Basement) Basement On floors	9,382.38 2920.89 6461.49
11.	Built-up Area	35916.12
12.	Green Area (@10% of balance plot area)	713
13.	Height	42.4
14.	No of Dwelling Units	298

CO-ORDINATES

1	Latitude	From 23°21'2.99"N	To 23°21'7.72"N
2	Longitude	From 85°17' 14.26"E	To 85°17'16.24"E

LAND DETAILS :

Khata no.	Plot no.
41	818,
88	773, 774,
141	790
79	806



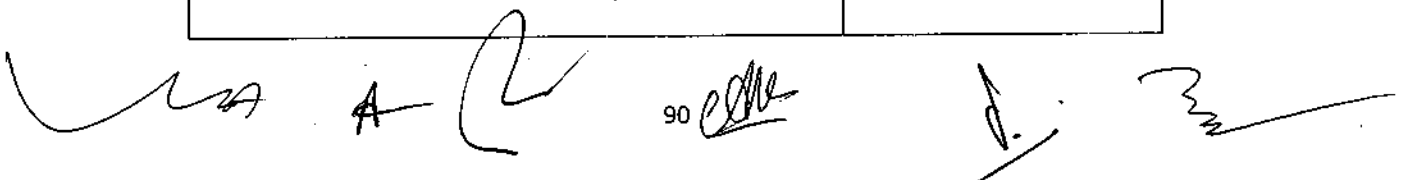
STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 5057, dated 28.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 1013, dated 16.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Argora, Ranchi vide letter no. 423, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/011217/190884 dated 16.01.2017.
5	Building Plan	:	Approved Building Plan

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	1490	135	201	141	60
Staff	30	45	2	1	1
Visitors	75	15	2	1	1
Total Domestic Water Demand			205	143	62
Landscape	713 sq m	3 l/day	2	0	2
Total		-	207	143	64

Category	Total Quantity (KLD)
Fresh water Req.	143


 90

Flushing water Req.	62
Sewage generation (@80% of the water consumption)	191
Capacity of STP	210
Recovered water from STP (80% of Waste water)	152
1. Flushing	62
2. Landscaping	2
3. Construction in nearby areas/road washing/sewer	88

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1490	0.5	745	224	521
2.	Staff	30	0.25	8	2	5
3.	Visitors	75	0.15	11	3	8
4.	Landscape waste	0.18 acres	0.2 kg/acres	1	0	1
5.	STP sludge	190 KLD	--	19	0	19
Total Waste Generated				784	229	554

ENVIRONMENT MANAGEMENT

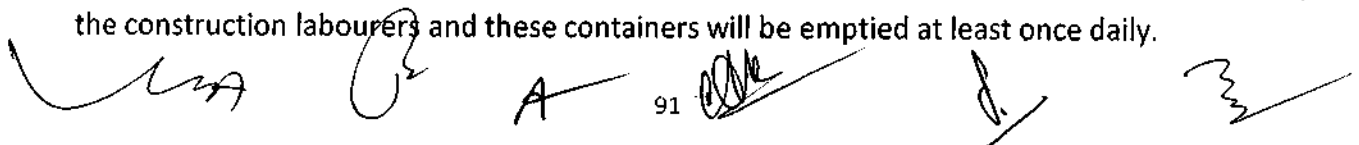
Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 713 sq m (@10% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

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



- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

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

Water Quality Management

During Construction Phase

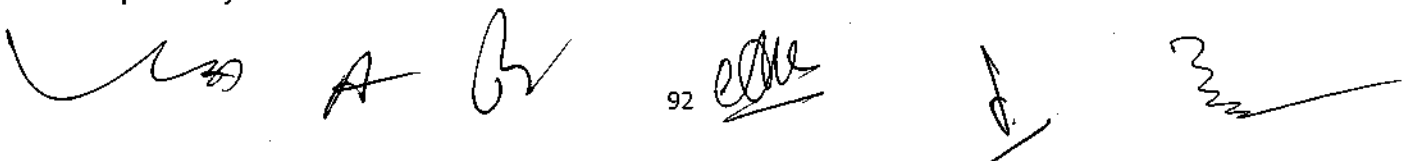



- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 210.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 143.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

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


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Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 7 Nos of solar panels will be used to save around 10 % of the total power requirement).

The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 89.85 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	Construction and maintenance of Road in near by area.	60.0
2	Water Environment	Creation of drainage & Repair of culverts and embankments in villages	9.0
3	Soil Environment	Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types of trees. a provision of Rs. 6 Lacs has been done.	6.00
4.	Socio-Economic Environment	Supply of Agriculture water pump sets for locals	7.00
5.	Energy conversation	Rooftop Solar panel to generate solar energy and feed directly to the grid and also providing net meter to assess the saving of normal electricity a provision of Rs. 7.85 Lacs.	7.85
TOTAL COST RS. IN LACS			89.85

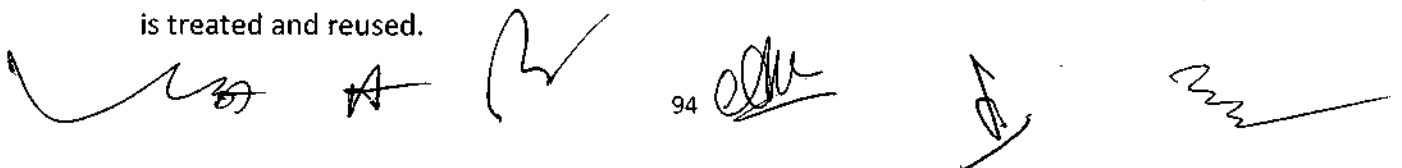

- I. The Committee visited the project site on 15.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 89.85 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 89.85 Lakh towards remediation plan and natural and community resource augmentation plan

with the Jharkhand State Pollution Control Board and evidence of the same submitted SEIAA, Jharkhand prior to grant of EC.

- IV. The bank guarantee shall be released after successful completion of remediation plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- IX. The penalty of rupees 18.68 Lakh being 1% of the capital investment incurred till date (Rs. 18.68 Crore) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- X. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided & site visit, the Committee decided that the proposal for Affordable Housing for LIG and EWS "Global Platinum Argora Ranchi" of M/s Global Infra, Village : Argora, Tehsil : Argora, Dist : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.

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- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

5. Expansion of Group Housing Project "Oak Forest" of M/s Nisith Keshari Constructions Pvt, Ltd. (NKCPL), Village : Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/282819/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.

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

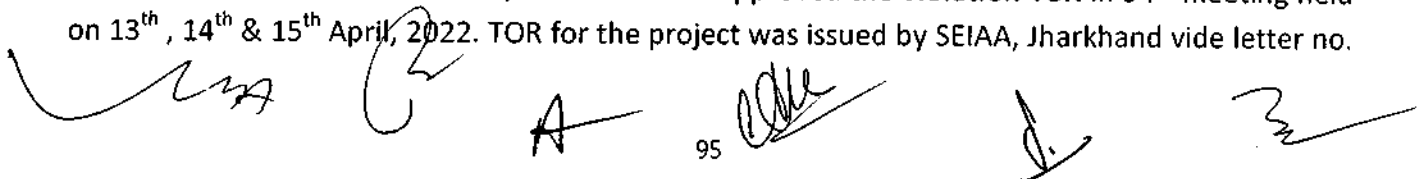
However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the **violation ToR** in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no.



92, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 13.07.2022 and received by SEAC on 13.07.2022.

EC Application for: Residential buildings : Total built-up area of 39322.78 sq m. (Existing- 17677.45 sq.m + Proposed- 21645.33 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	10942.60 m ² (approx. 2.70 acre)
Project Cost	INR 76.14 Crores
Built-up Area	39322.78 m ²
Green Area	2252.82 sq m (23.3% of plot area)
Population	1199
Water Requirement	163 KLD
Fresh Water Requirement	108 KLD
Wastewater Generation	133 KLD
STP Capacity	145 KLD
Total Municipal Waste	591 kg/day
Power Requirement	500 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	02 no.
Parking	274 no.
Connecting road	The project site is well connected with road. 9.14 m wide road abuts project site in North direction.
National Highway	NH 75 (770 m, E) 9.14 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.0 km, E)
Airport	Birsa Munda Airport, (3.4 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.0 Km, SE) Raj Hospital (3.3 km, ENE)
Nearest Water Bodies	Pipartoli (360 m, N) Argora Talab (660 m, ENE)

Area Summary

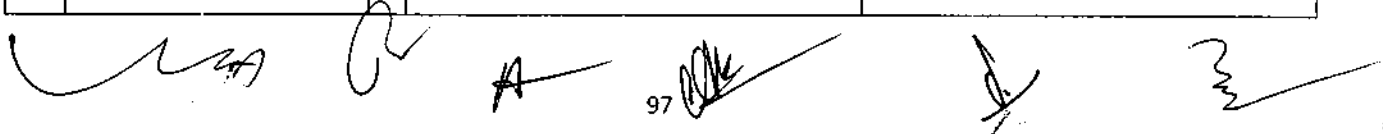
S. No.	Description	Area (sq m)
1.	Plot Area	10942.6

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2.	Surrendered for road widening	318.72
3.	Net Plot Area	10623.88
4.	Common Plot	1459.72
5.	Balance plot area (1-2-4)	9164.16
6.	Permissible Ground Coverage (@35% of net plot area)	3718.36
7.	Total Ground Coverage (@34.67% of net plot area)	3683.14
	• Proposed Coverage Area (15.86 %)	1684.99
	• Existing Building Coverage area (18.81 %)	1998.15
8.	Permissible FAR (@3.0 of plot area)	32827.80
9.	Total FAR (@2.99 of plot area)	32689.17
	• Proposed FAR Area	16875.03
	• Existing Building FAR Area	15814.14
10	Non FAR Area (including Basement)	6,633.61
	• Proposed Non FAR	
	• Existing Non FAR	4,770.3
		1,863.31
11.	Built-up Area	39322.78
	• Proposed Built-up Area	21645.33
	• Existing Built-up Area	17677.45
12.	Green Area (@23.3% plot area)	2552.85
13.	Height	43.75 m
14.	No of Dwelling Units	224 (117-existing +107-proposed)

CO-ORDINATES :

1	Latitude	From 23°20'52.90"N	To 23°20'58.13"N
2	Longitude	From 85°17'21.65"E	To 85°17'27.23"E



LAND DETAILS :

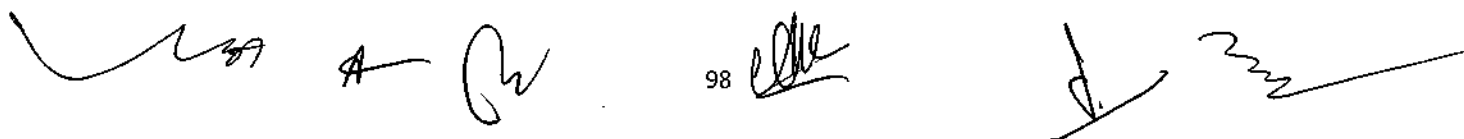
1	Village - Argoda, Tehsil- Ranchi	Khata No.	Plot No.
		15	2558, 2570, 2571 & 2572
		63	2564
		188	2560, 2561, 2565, 2566, 2567, 2568, 2569

STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 2477, dated 08.09.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 993, dated 12.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Argora, Ranchi vide letter no. 72, dated 02.03.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/062619/409087 dated 16.07.2019.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 2295/tech dated 28.08.2019.
6	Building Plan	:	Approved Building Plan

Water and waste water Requirement Details

S. No.	Category	Standard	Existing			Proposed				Total				
			Population / Capacity	Water Req.	Fresh Water Req	Recycled Water Req	Population / Capacity	Water Req.	Fresh Water Req	Recycled Water Req	Water Req.	Fresh Water Req	Recycled Water Req	
1	Residents	135	585	79	55	24	535	72	51	21	151	106	45	
2	Staff/ Students	45	12	1	0.5	0.5	11	1	0.5	0.5	2	1	1	
3	Visitors	15	29	1	0.5	0.5	27	1	0.5	0.5	2	1	1	
Total Domestic Water Req.					81	56	25		74	52	22	155	108	47
4	Landscape	3 l/sq m	2552.82	8	0	8		0	0	0	8	0	8	

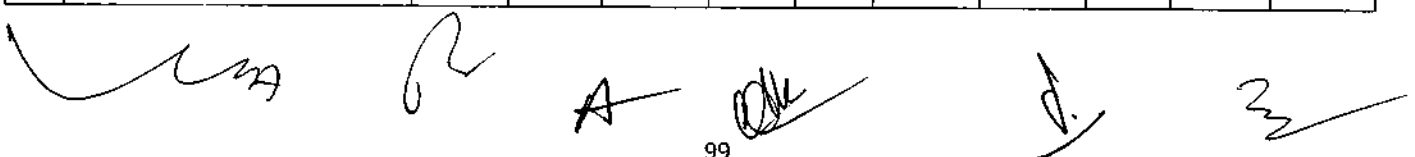


			sq m										
Total Water Req.				89	56	33		74	52	22	163	108	55

Category	Total Quantity (KLD)
Fresh water Req.	108
Flushing water Req.	47
Sewage generation (@90% of fresh water +100% flushing water)	133
Capacity of STP	145
Recovered water from STP (80% of Waste water)	107
4. Flushing	47
5. Landscaping	8
6. Construction in nearby areas/road washing/sewer	52

Solid Waste Requirement

S. No	Category	Standard	Existing				Proposed				Total		
			Capacity	Total Waste - kg/day	Recyclable-kg/day	Non Recyclable-kg/day	Capacity	Total Waste-kg/day	Recyclable-kg/day	Non Recyclable-kg/day	Total Waste-kg/day	Recyclable-kg/day	Non Recyclable-kg/day
1	Residents	0.5	585	293	88	205	535	268	80	188	561.0	168.0	393.0
2	Staff/Students	0.25	12	3	1	2	11	3	1	2	6.0	2.0	4.0
3	Visitors	0.15	29	4	1	3	27	4	1	3	8.0	2.0	6.0
4	Landscape	0.2 kg/acre	0.6 acres	1	0	1	0	0	0	0	1.0	0.0	1.0
5	STP Sludge	--	80 KLD	8	0	8	65 KLD	7	0	7	15.0	0.0	15.0
Total waste Generated													419
				309	90	219		282	82	200	591	172	



ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 2252.82 sq m (23.3% 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 recyclers.

During Operation Phase

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

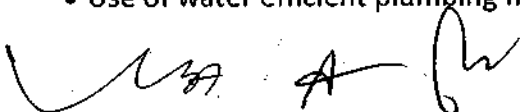
Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 145.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.



- Approx. 108.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

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

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 6.37 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

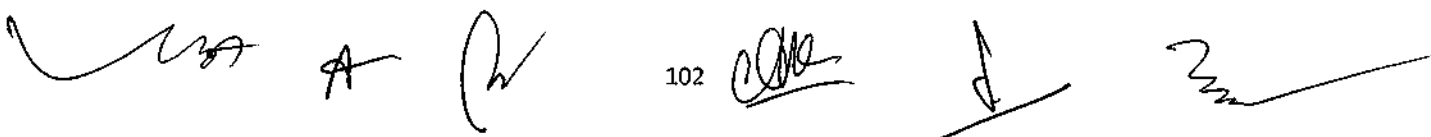
Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	Carpeting of the immediate nearby road	1.87
2	Water Environment	Construction of rainwater harvesting pits 01 Nos in the surrounding area to recharge the ground directly by channelizing the rainwater flow in the slop before water getting wasted.	2.00
3	Soil Environment	Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types	1.00

		of trees. a provision of Rs. 1 Lacs has been done.	
4.	Socio-Economic Environment	l in the neighborhood Govt. School to educate the children about the sustainable environment practices. A provision of Rs. 0.5 Lacs has been done.	0.5
5.	Energy conversation	Rooftop Solar panel to generate solar energy and feed directly to the grid and also providing net meter to assess the saving of normal electricity a provision of Rs. 1 Lacs.	1
TOTAL COST RS. IN LACS			6.37

- I. The Committee visited the project site on 15.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 6.37 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 6.37 Lakh towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remedition plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhearing to part of ECBC norms shall be complied with.
- IX. The penalty of rupees 16.94 Lakh being 1% of the capital investment incurred till date (Rs. 16.94 Crores) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- X. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided and site visit, the Committee decided that the proposal for Expansion of Group Housing Project "Oak Forest" of Shri Nisith Kumar Keshari, Village : Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand is recommended for

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

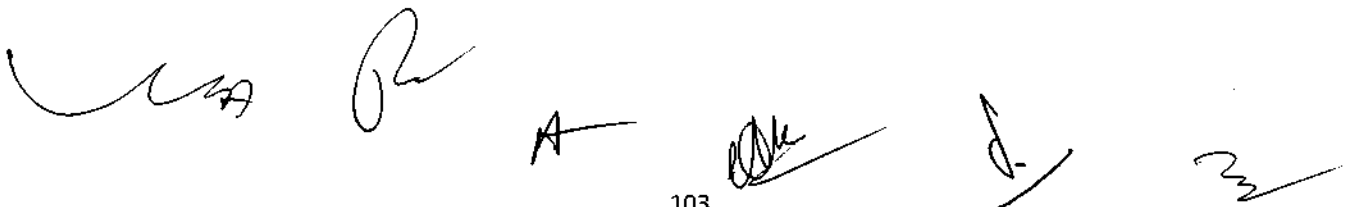
- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

6. Group Housing Project "Oak Elegance" of M/s Nisith Keshari Constructions Pvt, Ltd. (NKCPL),
Village : Pundag, Thana : Pundag, Thana No. : 288, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/282729/2022)

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.



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

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

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the violation ToR in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 92A, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 13.07.2022 and received by SEAC on 13.07.2022.

EC Application for : Residential buildings: Total built-up area of 52485.98 sqm (Existing 18370.093 sq.m + Proposed 34115.887 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	12994.90 m ² (approx. 3.21 acre)
Project Cost	INR 45 Crores
Built-up Area	52485.98 m ²
Green Area	1313.24 sq m (@ 11.4% of balance plot area)
Population	1795
Water Requirement	226 KLD
Fresh Water Requirement	157 KLD
Wastewater Generation	208 KLD

STP Capacity	220 KLD
Total Municipal Waste	858 kg/day
Power Requirement	1000 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 500 KVA
RWH Pits	04 no.
Parking	707 no.
Connecting road	Project site is well connected with road. 18.5 m wide road abuts project site in South direction.
National Highway	NH 75 (2.8 km, E) 18.5 m road (abuts site in S direction)
Nearest Railway Station	Ranchi junction Railway station, (6.3 km, E)
Airport	Birsa Munda Airport, (6.7 km, SE)
Nearest Hospitals	Vivekanda Hospital (4.3 km, NE) Santevita Hospital (5.3 km, E)
Nearest Water Bodies	Kanke Dam (4.6 km, NNE) Dhurwa Dam (7.2 km, SSW)

Area Summary :

Sl. no.	Description	Area (SQ M)
1.	Plot Area	12994.9
2.	Surrendered for road widening	113.26
3.	Net Plot Area	12881.64
4.	Common Plot	1414.88
5.	Balance plot area (1-2-3)	11466.62
6.	Permissible Ground Coverage (@35% of net plot area)	4508.53
7.	Proposed Ground Coverage (@26.48% of net plot area)	3411.04
8.	Permissible FAR (@3.0 of plot area)	38984.29
9.	Proposed FAR (@2.99 of plot area	38827.97
	Residential FAR	38139.59
	Commercial FAR	172.35
	Special FAR (School = 78.81 + Utility building =	244.14

	165.33)	
10.	Non FAR Area (including Basement)	13658.01
	Basement	8098.63
	On floors	5559.38
11.	Built-up Area	52485.98
12.	Green Area (@11.4% of balance plot area)	1313.24
13.	Height	59.9 m
14.	No of Dwelling Units	321

BUILT UP AREA DETAILS

Building	No. of same Bldg	Gross Built up area (Sq.m)	Deductions from gross BUA (Area in Sq.m)	Total Built up area (Sq.m)
			Cutout	
A (Bungalow)	1	2380.53	114.37	2266.16
A (Block A)	1	18675.54	89.56	18585.98
A (Block B)	1	13527.26	113.23	13414.03
A (Block C)	1	18219.81	0.00	18219.81
Grant total	4	52803.14	317.16	52485.98

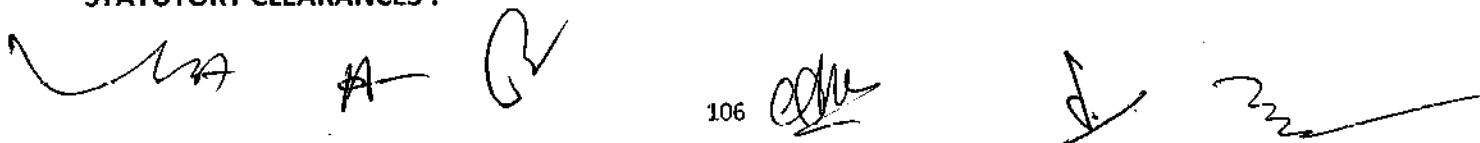
CO-ORDINATES

1	Latitude	From 23°21'26"N	To 23°21'31"N
2	Longitude	From 85°16' 31"E	To 85°16'34"E

LAND DETAILS :

		Khata No.	Plot no.
1	Village- Pudang, Thana -Pudang, Block-Nagadi, District-Ranchi	34	898
		155	899, 900, 903
		139	902
		230	906, 908

STATUTORY CLEARANCES :



1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 2022, dated 23.06.2018 certified that the distance of notified forest is 1150 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 273, dated 18.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Nagri, Ranchi vide letter no. 308, dated 17.02.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/112317/263416 dated 28.11.2017.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 128/tech dated 06.02.2018.
6	Building Plan	:	Approved Building Plan

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	1605	135	217	152	65
Staff/Students	58	45	3	2	1
Visitors	132	15	4	3	1
Total Domestic Water Demand			224	157	67
Landscape	1313.24sq m	3 l/day	2	0	2
Total		-	226	157	69

Category	Total Quantity (KLD)
Fresh water Req.	157
Flushing water Req.	67
Sewage generation (@80% of the waterconsumption)	208
Capacity of STP	220

Recovered water from STP (80% of Waste water)	167
1. Flushing	67
2. Landscaping	2
3. Construction in nearby areas/roadwashing/sewer	98

Solid Waste Requirement

S. No.	Description	Occupancy/ Area	kg/capita/ day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1605	0.5	802.5	481.5	321
2.	Staff	58	0.25	14.5	8.7	5.8
3.	Visitors	132	0.15	19.8	11.88	7.92
4.	Landscape waste	0.32 acres	0.2 kg/acres	0.064	0.064	0
5.	STP sludge	208 KLD	--	21	21	0
Total Waste Generated				858	523	335

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1313.24 sq m (@ 11.4% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

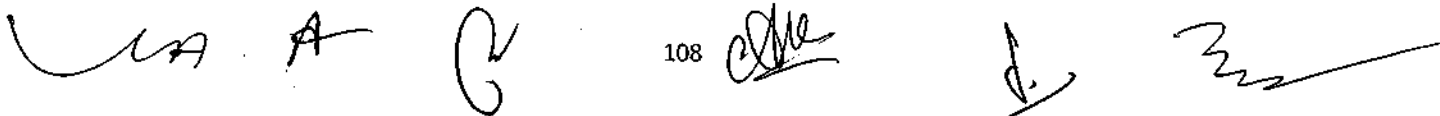
Solid Waste Management

During Construction Phase

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

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.



- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 220.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 157.0 KLD of fresh water is required during operational phase of the project.

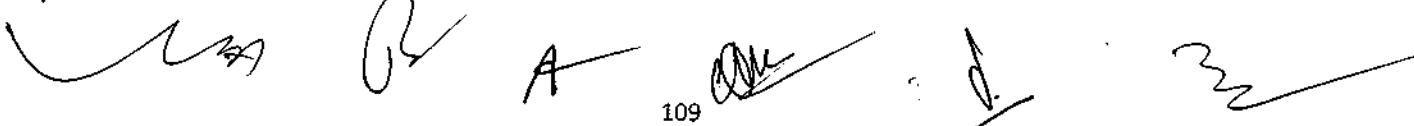
Air Quality Management

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

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 12 Nos of solar panels will be used to save around 10 % of the total power requirement).

The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

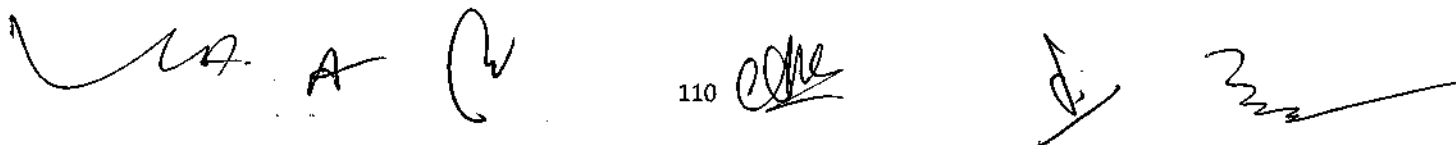


On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 53.8125 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	Maintenance of Road	3
2	Water Environment	Renovation and repair of pond in near by area	5.2525
3	Soil Environment	Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types of trees. a provision of Rs. 6.37250 Lacs has been done.	3.37250
4.	Socio-Economic Environment	Development of Community Center in near by areas	40.00
5.	Energy conversation	Distribution of Solar panel and Led lights in nearby areas.	2.18750
Total Cost Rs. In Lacs			53.8125

- I. The Committee visited the project site on 15.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 53.8125 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 53.8125 Lakh towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remedition plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.

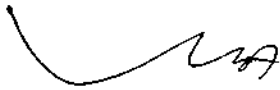

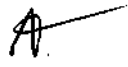



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- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- IX. The penalty of rupees 23.69 Lakh being 1% of the capital investment incurred till date (Rs. 23.69 Crores) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- X. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided site visit, the Committee decided that the proposal for Group Housing Project "Oak Elegance" of M/s Nisith Keshari Constructions Pvt, Ltd. (NKCPL), Village : Pundag, Thana : Pundag, Thana No. : 288, Dist : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

7. Group Housing Project of M/s Lucky Buildcon, Village : Pundag, Tehsil : Ranchi, Distt.: Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/283089/2022)

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.

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

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

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the **violation ToR** in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 47, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 13.07.2022 and received by SEAC on 13.07.2022.

Salient Features of the Project :

Parameters	Description
Plot Area	5924.99 m ² (approx. 1.46 acre)
Khata No.	Khasra No.: 336, Plot no.: 529, 530, 531, 1594 & 1595
Project Cost	INR 50 Crores
Built-up Area	23827.33 m ²

Green Area	266.5 sq m (@ 5% of balance plot area)
Population	899
Water Requirement	119 KLD
Fresh Water Requirement	82 KLD
Wastewater Generation	110.0 KLD
STP Capacity	120.0 KLD
Total Municipal Waste	443 kg/day
Power Requirement	400 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	02 no.
Parking	408 no.
Connecting road	The project site is well connected with Argora road.
National Highway	NH-75, 3.2 km, E 12.5 m road (abuts site in W direction)
Nearest Railway Station	Ranchi junction Railway station, (7.0 km, E)
Airport	Birsa Munda Airport, (7.0 km, SE)
Nearest Hospitals	Amrit Hospital (6.3 km, NNW) Raj Hospital (5.7 km, E)
Nearest Water Bodies	Ranchi Lake (5.32 km, NE) Kanke Dam (5.9 km, N)

Area Summary :

Sl. no.	Description	Area (SQ M)
1.	Plot Area	5924.99
2.	Common Plot	594.02
3.	Balance plot area (1-2)	5330.97
4.	Permissible Ground Coverage (@35% of net plot area)	2073.75
5.	Proposed Ground Coverage (@34.76% of net plot area)	2059.56
6.	Permissible FAR (@3.0 of plot area)	17774.97

7.	Proposed FAR (@2.99 of plot area)	17727.29
8.	Non FAR Area (including Basement)	6,100.04
	Basement	3234.21
	On floors	2,865.83
9.	Built-up Area	23827.33
10.	Green Area (@5% of balance plot area)	266.5
11.	Height	34.9
12.	No of Dwelling Units	168

CO-ORDINATES :

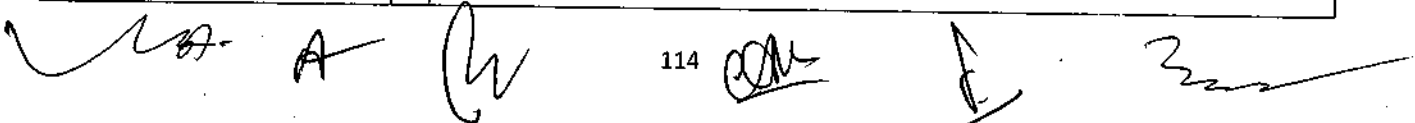
1	Latitude	From 23°21'11"N	To 23°21'12"N
2	Longitude	From 85°16' 4"E	To 85°16' 7"E

LAND DETAILS :

1	Village - Pundag, Tehsil- Ranchi	Khata No.: 336	Plot no.: 529, 530, 531, 1594 & 1595
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STATUTORY CLEARANCES :

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 5010, dated 22.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 765, dated 27.10.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Nagri, Ranchi vide letter no. 26, dated 30.12.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 101920/ 503583 date 04.12.2020.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide



		letter no. 181/tech/2019 dated 22.01.2019
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	840	135	114	80	34
Staff	17	45	2	1	1
Visitors	42	15	2	1	1
Total Domestic Water Demand			118	82	36
Landscape	266.5 sq m	3 l/day	1	0	1
Total		-	119	82	37

Category	Total Quantity (KLD)
Fresh water Req.	82
Flushing water Req.	37
Sewage generation (@80% of the water consumption)	110
Capacity of STP	120
Recovered water from STP (80% of Waste water)	88
7. Flushing	36
8. Landscaping	1
9. Construction in nearby areas/road washing/sewer	51

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	840	0.5	420	126	294
2.	Staff	17	0.25	4	1	3

3.	Visitors	42	0.15	7	2	5
4.	Landscape waste	0.06 acres	0.2 kg/acres	1	0	1
5.	STP sludge	110 KLD	--	11	0	11
Total Waste Generated				443	129	314

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 266.5 sq m (@ 5% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

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

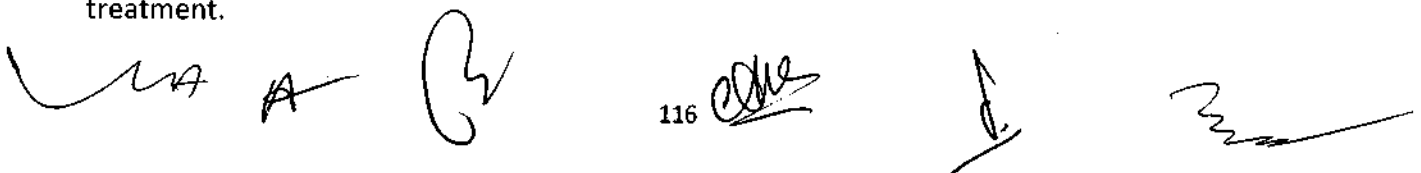
During Operation Phase

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

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.



During Operation Phase

- STP of capacity i.e. 120.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 82.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

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

Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 5 Nos of solar panels will be used to save around 10 % of the total power requirement).

The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

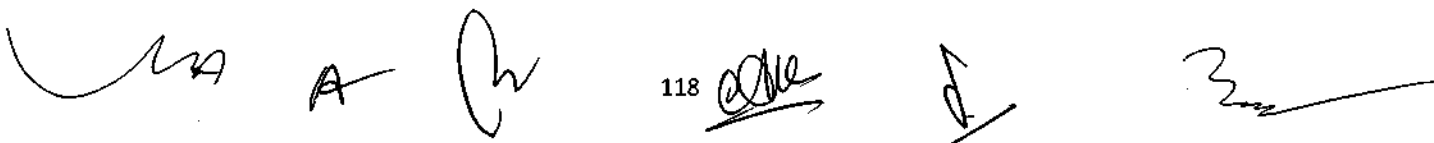
On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 43.05 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	Construction and repair of Road in near by Area	30.00
2	Water	Revamping of Nalla situated near project Site	

	Environment		4.00
3	Soil Environment	Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types of trees. a provision of Rs. 3 Lacs has been done.	3.00
4.	Socio-Economic Environment	Development of open gym in nearby areas	3.00
5.	Energy conversation	Distribution of Solar panel and LED lights in nearby areas.	3.05
TOTAL COST RS. IN LACS			43.05

- I. The Committee visited the project site on 19.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 43.05 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 43.05 Lakh towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remedition plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhearing to part of ECBC norms shall be complied with.
- XII. The penalty of rupees 11 Lakh being 1% of the capital investment incurred till date (Rs. 11 Crores) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- IX. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided site visit, the Committee decided that the proposal for Group Housing Project of M/s Lucky Buildcon, Village : Pundag, Tehsil :



Ranchi, Distt.: Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

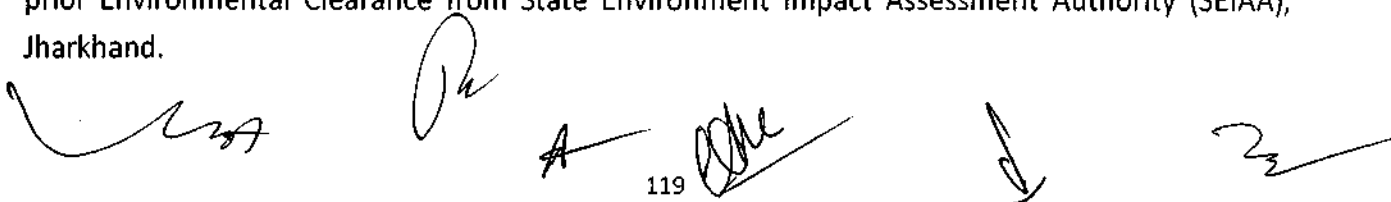
8. Affordable Housing Project “Pearl Orchid” of M/s Moti Infrastructures, Village : Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/282886/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.

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

The bottom of the page contains several handwritten signatures and initials in black ink. From left to right, there is a large, stylized signature, a smaller signature, a signature with the letter 'A' above it, a signature with the word 'SME' above it, a signature with a downward-pointing arrow below it, and a final signature on the far right.

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

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the violation ToR in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 103, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 13.07.2022 and received by SEAC on 13.07.2022.

Salient Features of the Project :

Parameters	Description
Plot Area	6849.50 m ² (approx. 1.69 acre)
Project Cost	INR 32 Crores
Built-up Area	39388.94 m ²
Green Area	342.5sq m (@5% of plot area)
Population	1391
Water Requirement	181 KLD
Fresh Water Requirement	125 KLD
Wastewater Generation	168 KLD
STP Capacity	180 KLD
Total Municipal Waste	685 kg/day
Power Requirement	500 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA

RWH Pits	02 no.
Parking	481 no.
Connecting road	The project site is well connected with road. 12.5 m wide road abuts project site in North direction.
National Highway	NH 75 (700 m, E) 12.5 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.58 km, E)
Airport	Birsa Munda Airport, (3.6 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) Raj Hospital (3.58 km, E)
Nearest Water Bodies	Ranchi Lake (3.29 km, NE) Dhurwa Dam (6.9 km, SSW) Kanke Dam (5.1 km, N)

Area Summary :

Sl. no.	Description	Area (SQ M)
1.	Plot Area	6849.50
2.	Surrendered for road widening	71.43
3.	Net Plot Area	6778.07
4.	Common Plot	830.52
5.	Balance plot area (1-2)	5947.54
6.	Permissible Ground Coverage (@50% of net plot area)	3389.03
7.	Proposed Ground Coverage (@34.64% of net plot area)	2348.05
8.	Permissible FAR (@3.5 of plot area)	23973.25
9.	Proposed FAR (@3.49 of plot area)	23921.49
	Residential	23681.39
	Utility Building	240.01
10.	Non FAR Area (including Basement)	15,467.45
	Basement	3,891.67
	On floors	11,575.78
11.	Built-up Area	39388.94

12.	Green Area (@5% of balance plot area)	342.5
13.	Height	43.9
14.	No of Dwelling Units	260

CO-ORDINATES :

1	Latitude	From 23°21'0.8"N	To 23°21'3.1"N
2	Longitude	From 85°17' 22.8"E	To 85°17' 26.8"E

LAND DETAILS :

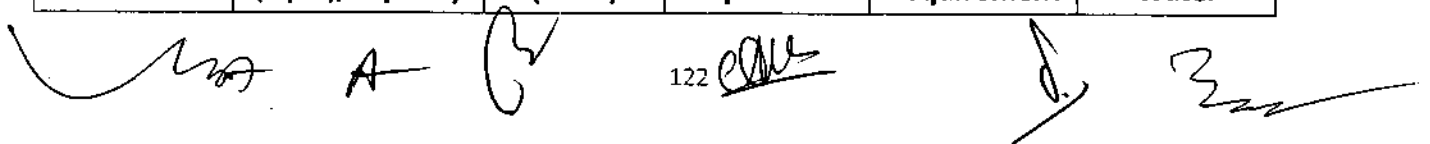



1	Village - Argora, Tehsil- Ranchi	Khata No.	Plot no.
		73	1066 & 1067
		79	1064 & 1065

STATUTORY CLEARANCES :

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 5047, dated 26.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 764, dated 27.10.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Argora, Ranchi vide letter no. 424, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatian.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/011619/364096 date 01.02.2019.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 175/tech dated 21.01.2019.
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details :

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water
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 A B 122   

					requirement
Domestic					
Residents	1300	135	176	123	53
Staff	26	45	2	1	1
Visitors	65	15	2	1	1
Total Domestic Water Demand			180	125	55
Landscape	342.5	1 l/day	1	0	1
Total		-	181	125	56

Category	Total Quantity (KLD)
Fresh water Req.	125
Flushing water Req.	55
Sewage generation (@90% of the water consumption)	168
Capacity of STP	180
Recovered water from STP (80% of Waste water)	134
10. Flushing	55
11. Landscaping	1
12. Construction in nearby areas/road washing/sewer	78

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1300	0.5	650	195	455
2.	Staff	26	0.25	7	2	5
3.	Visitors	65	0.15	10	3	7
4.	Landscape waste	0.08 acres	0.2 kg/acres	1	0	1
5.	STP sludge	168 KLD	--	17	0	17
Total Waste Generated				685	200	485

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 342.5sq m (@5% 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 recyclers.

During Operation Phase

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

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 180.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 125.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

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

cdw

d.

[Signature]

- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

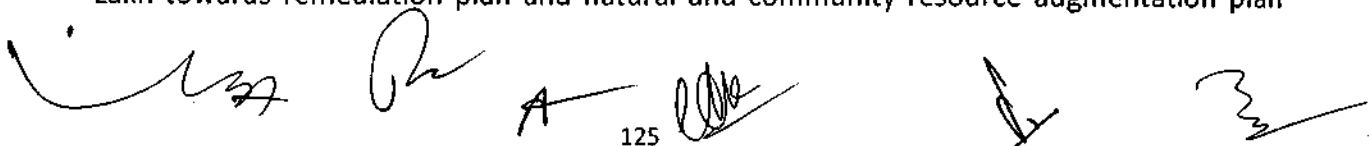
Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 70.25 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	Construction/maintenance of near by road.	55
2	Water Environment	Providing 4 number hand pump in nearby areas	2
3	Soil Environment	Development of Park and plantation of fruit bearing trees in near by Areas	5
3	Socio-Economic Environment	Sports facility i.e. Badminton and Basketball court will be constructed for promoting sports/ games in near by School	6.25
4.	Noise Environment	Distribution of Hearing aids to the needed Sr. Citizens of the nearby area @ 1000 x 300 person = Rs. 500,000/-	2.00
TOTAL COST RS. IN LACS			70.25

- The Committee visited the project site on 15.07.2022 to verify the details submitted by PAs.
- Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 70.25 Lakh.
- Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 70.25 Lakh towards remediation plan and natural and community resource augmentation plan



with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.

- IV. The bank guarantee shall be released after successful completion of remediation plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- XIII. The penalty of rupees 7,25,431.24 being 1% of the capital investment incurred till date (Rs. 7,25,43,124) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- IX. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided site visit, the Committee decided that the proposal for Affordable Housing Project "Pearl Orchid" of M/s Moti Infrastructures, Village : Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.

- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

9. Residential Complex "Samriddhi Park" of M/s Ilika Estates Private Limited (Prop: Sri Akash Adukia) at Village : Arra, Arra Gate, Tehsil : Namkum, Dist : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/283348/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.

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

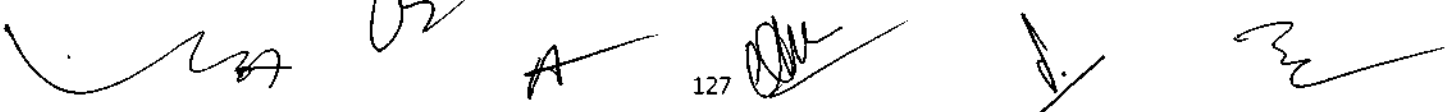
However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the **violation ToR** in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no.



96, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 14.07.2022 and received by SEAC on 14.07.2022.

EC Application for: **Built-up area of 43807.44 sq m.**

Project and Location Details:

Parameters	Description
Plot Area	19476.76 m ²
Location	Village Arra, Thana Tatisilway, Arra Gate, Namkum Ranchi, Jharkhand
Project Cost	INR 58 Crores
Built-up Area	43807.44 m ²
Green Area	4040.60 m ² (@20.75% of plot area)
Population	2211 Nos.
Water Requirement	129 KLD
Fresh Water Requirement	73 KLD
Wastewater Generation	90 KLD
STP Capacity	120 KLD
Total Municipal Waste	611 kg/day
Power Requirement	1400 KVA (Jharkhand State Electricity board)
DG Sets	320 KVA (2 numbers)
RWH Pits	3 Nos.
Parking	353
Connecting road	SH 1 (0.2 km, N)
National Highway & Roads	<ul style="list-style-type: none">• SH 1 (0.2 km, N).
Nearest Railway Station	<ul style="list-style-type: none">• Ranchi Junction (7.0 km, West)
Airport	Birsa Munda Airport 9.8 km, SW)
Nearest Hospitals	<ul style="list-style-type: none">• Shree super specialty hospital(1.29 km, NW)• RC Mission Middle School (0.1 km, W)• Rajkiya Hansraj Wadhwa High School (1.9 km, NW)• St Katherine High School (0.6 km, S)• Sarala Birla Public School (1.3 km, NE)

	<ul style="list-style-type: none"> • Military Hospital (2.4 km, W) • Dwarika Hospital & Research Centre (3.5 km, E)
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CO-ORDINATES

Coordinates	23.350893°N	85.402074°E
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LAND DETAILS

Khata no.	Plot no.
58	1608
8	1823
66	1825

Area Summary :

Land Area	19,476.76 sq.m
Width of Abutting Road	8.50 m (avg.)
Permissible Ground Coverage	50 % of the Plot Area = 9,738.38 sq.m
Permissible F.A.R.	2.5
Proposed Ground Coverage	5,753.47 sq.m (29.54% of Land Area)
Proposed F.A.R.	1.98
Proposed Total Built Up Area	43,807.44 sq.m
Proposed No. of Building	7 (Residential = 6, Club & Community = 1)
Proposed Building Inventory	Block 1A (Residential)= G + 7 storied (24.0m from G.L.) Block 1B (Residential) = G + 7 storied (24.0m from G.L.) Block 2 (Residential) = G + 7 storied (24.0m from G.L.) Block 3 (Residential) = G + 8 storied (27.0m from G.L.) Block 4A (Residential) = G + 8 storied (27.0m from G.L.) Block 4B (Residential) = G + 8 storied (27.0m from G.L.) Club & Community Block = Ground storied
Proposed Nos. of Flat	344 Nos. (2BHK = 81 Nos, 3BHK = 263 Nos.)
Proposed Nos. of Car Parking	353 Nos. (Covered = 158 nos., Open = 195 nos.)

Proposed Landuse Distribution:

Development Component	Area & Percentage	
	Area (sq.m)	% of Land Area
Ground Coverage	5,753.47	29.54
Services & Utilities*	754.69	3.87
Internal Road Area (Paved)	3,874.87	19.89
Semi-paved surface incl. open car parking	3,848.66	19.76
Landscape Green Area	4,040.60	20.75
Swimming Pool	264.54	1.36

Soft Area	674.90	3.47
Area for Road Widening	265.03	1.36
TOTAL	19,476.76	100.00

STATUTORY CLEARANCES

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 515, dated 09.02.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 92, dated 10.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Namkum, Ranchi vide letter no. 862, dated 11.08.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 111520/ 510320 date 27.11.2020.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 91/tech/2021 dated 07.01.2021

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement-KLD	Fresh Water Requirement-KLD	Recycled Water requirement-KLD
Domestic					
Residents	1983	50	100	70	30
Staff	30	45	1.35	0.85	0.5
Visitors	198	30	2.97	1.97	1.0
Total Domestic Water Demand			104	73	31
Landscape	4040.6 sq m	5 l/day	20.2	0	20.2
DG cooling	2*320 KVA	0.9l/KVA/day	5	0	5
Total			129	73	56

Category	Total Quantity (KLD)
Fresh water Req.	73
Flushing water Req.	31
Sewage generation (@80% of the fresh water consumption + 100% flushing water)	90
Capacity of STP	120
Recovered water from STP	81
1. Flushing	31
2. Landscaping	20.2
3. DG cooling	5
4. Car Washing/Road Washing/Sewer	24

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	To be Disposed (Kg/day)	Recyclable (kg/day)
1.	Residents	1983	0.3	594.9	415.9	179
2.	Staff	30	0.2	6.0	4.2	1.8
3.	Visitors	198	0.05	9.9	6.7	3.2
Total Waste Generated				610.8	426.8	184

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 4040.60 m² (@20.75% 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

❖ Collection, Segregation and treatment of waste

- Door to door collection system will be provided for collection of domestic waste
- Local vendors will be hired for waste collection, management and disposal
- Separate colored bins for compostable (wet waste), recyclables and rejected waste will be provided to residents as well as in common and open areas
- Wet waste will be composted within the site in Organic Waste Converter

❖ Disposal

- a. Rejected fraction of the waste will be collected and disposed by local agencies on daily basis at the locations designated by Nagar Parishad. Recyclable waste and E-waste will be sold to authorized vendors
- b. Used oil from DG sets will be sold to authorized vendors

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 Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e.120 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Flushing, landscaping and road washing
- Use of water efficient plumbing fixtures to conserve water.
- Approx.73 KLD of fresh water is required during operational phase of the project.

Air Quality Management


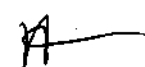

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by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

Energy conservation

solar street lights will be provided at site.

The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 1,23,06,250 as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-



Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	Development and maintenance of nearby road	100
2	Water Environment	Construction of rainwater harvesting pits surrounding area to recharge the ground directly.	8.00
3	Soil Environment	Direct loss to soil environment due to water erosion and providing in the surrounding neighborhood areas by plantation of various types of trees. a provision of Rs. 5 Lacs has been done.	5.00
4.	Socio-Economic Environment	in the neighborhood Govt. School to educate the children about the sustainable environment practices and to establish science and computer lab. A provision of Rs. 6 Lacs has been done.	6.00
5.	Energy conversation	Rooftop Solar panel to generate solar energy and feed directly to the grid and also providing net meter to assess the saving of normal electricity a provision of Rs. 4 Lacs.	4.00
Total Cost Rs. In Crore			1.23

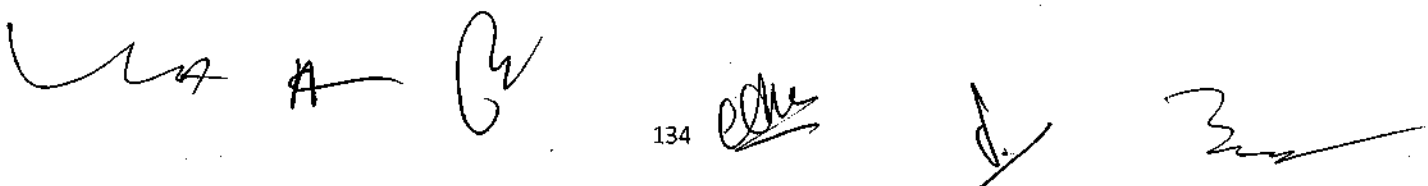
- I. The Committee visited the project site on 20.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 1,23,06,250.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 1,23,06,250 towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remedition plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhearing to part of ECBC norms shall be complied with.
- XIV. The penalty of rupees 18,46,500 being 0.5% of the capital investment incurred till date (Rs. 36,93,00,000) shall be submitted to Jharkhand State Pollution Control Board in the

form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.

- IX. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided site visit, the Committee decided that the proposal for Residential Complex "Samriddhi Park" of M/s Ilika Estates Private Limited (Prop: Sri Akash Adukia), at Village : Arra, Arra Gate, Tehsil : Namkum, Dist : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.



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

(Proposal No. : SIA/JH/MIS/283149/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 17.07.2022.

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

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

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the violation ToR in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 93, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 14.07.2022 and received by SEAC on 14.07.2022.

EC Application for: Built-up area of 35486.81 sq m.

Project and Location Details :

Parameters	Description
Plot Area	10840 m ²
Location	VILLAGE & THANA LALPUR, HAZARIBAGH ROAD RANCHI, Jharkhand
Project Cost	INR 50 Crores
Built-up Area	35486.81 m ²

Green Area	1606 sq m (15 % of plot area)
Population	430 Nos.
Water Requirement	29 KLD
Fresh Water Requirement	1 4KLD
Wastewater Generation	20 KLD
STP Capacity	50 KLD
Total Municipal Waste	205 kg/day
Power Requirement	600 KVA (Jharkhand State Electricity board)
DG Sets	500 KVA
RWH Pits	3 Nos.
Parking	78
Connecting road	Hazaribagh Road (30 m, S).
National Highway& Roads	<ul style="list-style-type: none"> • Hazaribagh Road (30 m, S).
Nearest Railway Station	<ul style="list-style-type: none"> • Ranchi Junction (2.9 km, S)
Airport	Birsa Munda Airport 7.0 km, S)
Nearest Hospitals	<ul style="list-style-type: none"> • S St Thomas School (0.4 km, NW) • Little Pearls School (0.5 km, W) • Tulip Kids School (0.5 km, SE) • KC Roy Memorial hospital (0.6 km, S) • POC Hospital (1.2 km, NW)

CO-ORDINATES

Coordinates	Latitute	Longitude
	23.374355°N	85.341860°E

LAND DETAILS

Khata no.	Plot no.
02	1372, 146

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Area Summary

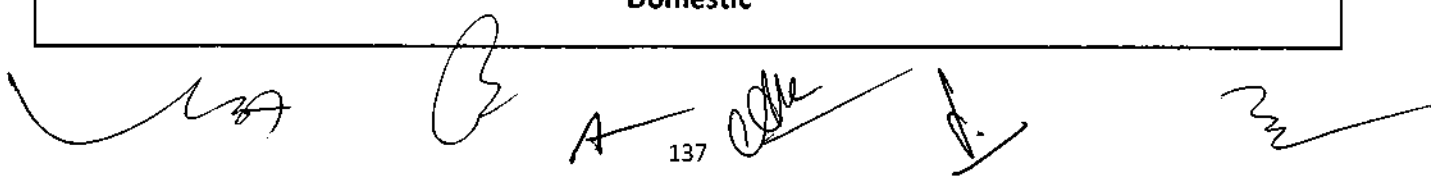
S. No.	Description	Area (sq m)
1.	Plot Area	10,840.15
2.	Road Widening	129.68
3.	Net Plot Area	10,710.47
4.	Ground Coverage (23.40%)	2507.25
5.	FAR (@2.496)	27060
6.	Non FAR	8426.18
7.	Built-up Area	35486.81
8.	Green Area (@10% of net plotarea)	1071
9.	No of Dwelling Units	78
10.	Height	87.4 m

STATUTORY CLEARANCES

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 511, dated 18.02.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 147, dated 21.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Shahaar, Ranchi vide letter no. 154, dated 22.02.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 030720/ 451470 date 27.04.2020.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 2213/tech/2020 dated 16.10.2020

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement- KLD	Fresh Water Requirement- KLD	Recycled Water requirement- KLD
Domestic					



Residents	390	50	20	14	7
Staff	20	45	1	0.5	0.5
Visitors	20	15	0.3	0.2	0.1
Total Domestic Water Demand			22	14	8
Landscape	1071 sq m	3 l/day	3	0	3
DG cooling	500 KVA	0.9 l/KVA/day	4	0	4
Total		-	29	14	15

Category	Total Quantity (KLD)
Fresh water Req.	14
Flushing water Req.	8
Sewage generation (@80% of the fresh water consumption + 100% flushing water)	20
Capacity of STP	50
Recovered water from STP (90% of Waste water)	18
1. Flushing	8
2. Landscaping	3
3. Dg cooling	4
4. Road washing	3

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Non-Recyclable (Kg/day)	Recyclable (kg/day)
1.	Residents	390	0.5	195	137	58
2.	Staff	20	0.25	5	3.5	1.5
3.	Visitors	20	0.15	3	2.5	0.5
4.	Landscape waste	0.26 acres	0.2	0.05	0	0.05

	Total Waste Generated			203	143	160
7.	STP sludge	50 KLD	--	2	2	0

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1606 m² (@15% 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

❖ Collection, Segregation and treatment of waste

- Door to door collection system will be provided for collection of domestic waste
- Local vendors will be hired for waste collection, management and disposal
- Separate colored bins for compostable (wet waste), recyclables and rejected waste will be provided to residents as well as in common and open areas
- Wet waste will be composted within the site in Organic Waste Converter

❖ Disposal

- Rejected fraction of the waste will be collected and disposed by local agencies on daily basis at the locations designated by Nagar Parishad. Recyclable waste and E-waste will be sold to authorized vendors
- Used oil from DG sets will be sold to authorized vendors

Water Quality Management

During Construction Phase

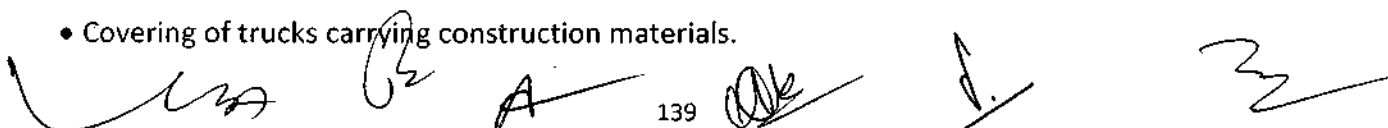
- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e.50 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Flushing, landscaping and road washing
- Use of water efficient plumbing fixtures to conserve water.
- Approx.29 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.



- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

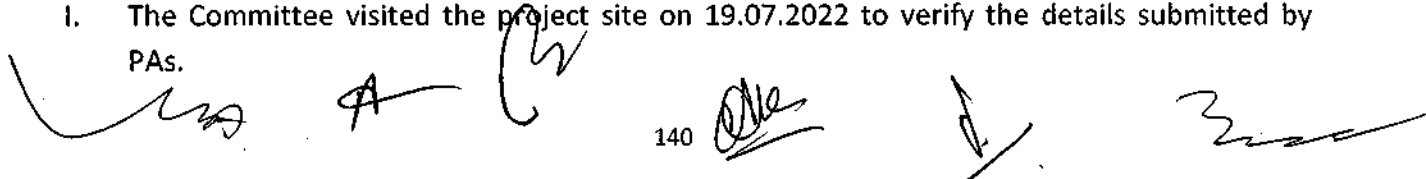
solar street lights will be provided at site.

The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 160.50 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	Provided air monitoring equipment	10.00
2	Water Environment	Repair of culverts and embankments etc or any suggestion form the local authority.	40.00
3	Soil Environment	Development of green belt along streams, ponds etc.	10.00
4.	Socio-Economic Environment	Provide equipment to charitable school Hospital and other allied services.	90.00
5.	Energy conversation	Provision of solar panel lighting in common areas etc.	10.50
Total Cost Rs. In Lacs			160.50

1. The Committee visited the project site on 19.07.2022 to verify the details submitted by PAs.



- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 160.50 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 160.50 Lakh towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remediation plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.
- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- XV. The penalty of rupees 21.25 Lakh being 0.625% of the capital investment incurred and turnover till date (Rs. project cost 38.00 Crores & turnover Rs. 18 crores) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- IX. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided site visit, the Committee decided that the proposal for Residential Apartment Project " SG Exotica" of M/s Subhash Kumar Modi & Gautham Modi at Village : Lalpur, Thana no. : 02, Tehsil : Ranchi Sahar, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.

- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

11. R.Ali's Grand Mall (Commercial Building comprising of shopping Mall and Residential Area) " of M/s APJ Express, Village : Hindpiri, Tehsil : Hindpiri, Distt. : Ranchi, Jharkhand (Proposal No : SIA/JH/MIS/77272/2022).

Name of the consultant: P & M SOLUTION, Noida

Project Category: 8(a) Category B2 (considered as B1 due to violation).

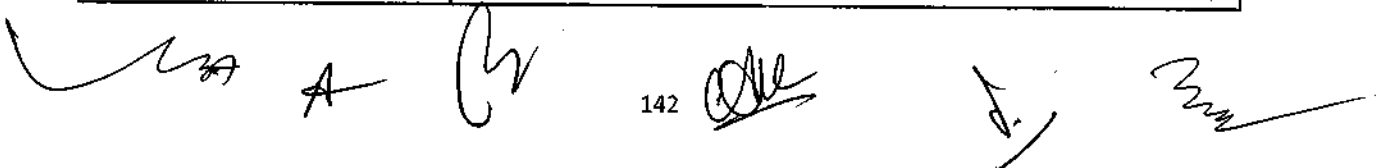
ToR Application for: Commercial buildings:Total built-up area of 57,513.87 m2

This is a case of violation which has been taken for appraisal on 17.07.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

APJ Express (A JV of APJ Properties and Express Residency) has developed a commercial cum residential project "Rali Magnum Mall" located at Revised Rali Magnum Mall at Plot No-670, 672 and 673 (Holding No-239 (old) Corresponding to new holding No 365 & 364 and holdingNo 241 (old), New Holding No. 383, Ward No-III (old), 13 (New), Thana No. 209, Khata No 64 & Revisional Survey Plot Nos 89 & 90, Under Khata No.-64, Corresponding to Municipal Survey Plot Nos.-704, 705 & 706, situated at Mauza Hindpiri, Rali Building Main Road, Hindpiri, Ranchi. Project involves development of commercial area including cinema hall & shopping mall and residential area having built-up area of 57,513.87 sqm.

Project and Location Details :

Parameters	Description
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Plot Area	12071.48 Sqm
Khata No.	Plot No-670, 672 and 673, Holding No. 239, Ward No-III (old), 13 (New), Thana NO 209, Khata No 64 & Revisional Survey Plot Nos 89 &90
Project Cost	INR 30 Crores
Built-up Area	57,513.87 m ²
Green Area	1207 m ² (@10% of plot area)
Population	3998
Water Requirement	160 KLD
Fresh Water Requirement	78 KLD
Wastewater Generation	102 KLD
STP Capacity	110.0 KLD
Total Municipal Waste	776kg/day
Power Requirement	2000 KVA (Jharkhand State Electricity board)
DG Sets	2 no. of DG set of Total 1000 kVA
RWH Pits	03
Parking	Cars: 391 Scooter: 82, Cycle: 164
Connecting road	The project site is well connected with Mahatma Gandhi Main Road.
National Highway	NH-20 km
Nearest Railway Station	Ranchi Railway station, 1.7 km, S
Airport	Birsa Munda Airport,(4.2 km, S)
Nearest Hospitals	Hyatt Multispeciality Hospital & Research Centre (180 m, S) Raj Hospital (560 m, S)
Nearest Water Bodies	Lake (700 m, NW)

Area Summary :

S. No.	Description	Area (sq m) Phase I
1.	Plot Area	12071.48
2.	Proposed Ground Coverage	6996.36

3.	Proposed FAR (@3.279 of plot area) Commercial Residential	39,585.98 35,535.23 4,050.75
4.	Non FAR Area including basement area	17,927.89
5.	Basement Upper Lower	14927.13 8263.93 6663.2
6.	Built-up Area Commercial Residential	57,513.87 52,023.93 5,489.94
7.	Green Area (@ 10% of plot area)	1207
8.	Height	28.01
9.	No of flats in residential area (on 6th floor of Main commercial building)	4
10.	No of shops in commercial area	165
11.	No of Offices in commercial area	21

Land Details :

Khata no.	MS Plot no.	RS Plot no.
64	670, 671, 672, 673, 704, 705, 706	89 & 90

CO-ORDINATES

1	Latitude	From 23°21'42.87"N	To 23°21'40.87"N
2	Longitude	From 85°19'28.31"E	To 85°19'33.35"E

Statutory Clearances :

1	DFO Certificate	:	Divisional Forest Officer (DFO), Ranchi Forest Division vide letter no. 1927, dated 22.04.2022 certified that distance of Reserved Forest/Protected forest is more than 250 meter from project site.
2	DFO wildlife	:	DFO, Wild life Ranchi division vide letter no. 368, dated 20.04.2022 certified that the National Park & Sanctuary is not within 10 km from project is not situated within in any ESZ.
3	CO certificate	:	The CO, Shahar, Ranchi vide letter no. (B) 389, dated 08.05.2022 has mentioned 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, Jharkhand, Ranchi, vide letter no. 535, dated 25.08.2009.
5	Building Plan	:	Building Plan approved by RMC vide letter no. 707, dated 15.05.2021.

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	20	135	3	2	1
Staff	1550	45	70	50	20
Visitors	2448	15	37	26	11
Total Domestic Water Demand			110	78	32
Landscape	1207Sq.m	3ltr/sqm	4	-	4
Fire Fighting			1	-	1
DG/HVAC cooling	--	--	45	--	45
Total		-	160	78	82

Category	Total Quantity (KLD)
Domestic water Req.	78
Flushing water Req.	32
Sewage generation (@80% of the fresh + 100% flushing water requirement)	102
Capacity of STP	110
Recovered water from STP (90% of Waste water)	82
13. Flushing	32
14. Landscaping	4
15. Fire Fighting	1
16. DG/HVAC cooling	45

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)

1.	Residents	20	0.5	10	3	7
2.	Staff	1550	0.25	388	116	272
3.	Visitors	2448	0.15	367	110	257
4.	Landscape waste	0.3 acres	0.2 kg/acres	1	1	-
5.	STP sludge	102KLD	--	10		10
Total Waste Generated				776	230	546

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1207 m² (@10% 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

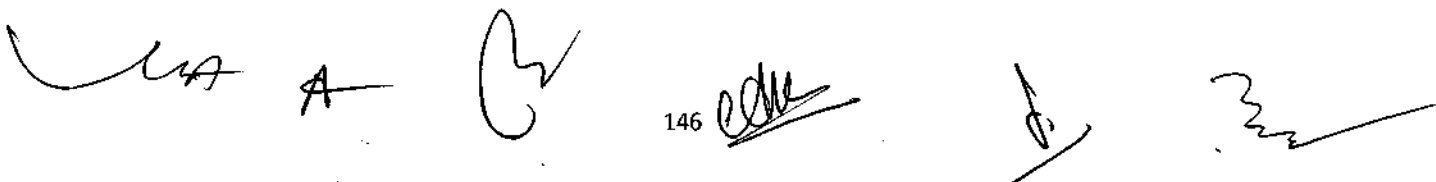
- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will 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 recyclers.

During Operation Phase

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

Water Quality Management

During Construction Phase



- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- 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.110.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 78.0KLD of fresh water is required during operational phase of the project.

Air Quality Management

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

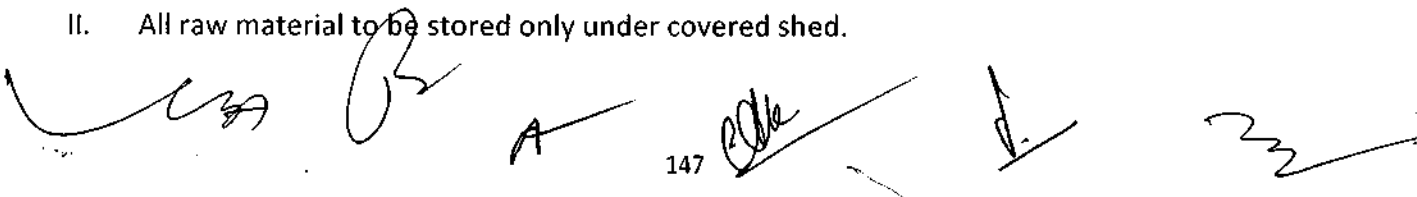
Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (solar panels will be used to save around 10 % of the total power requirement).

The Committee visited the project site on 20.07.2022 to verify the details submitted by PAs.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 15, 16, 17, 18, 19, 20, 21 & 22.07.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.



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

12. 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 : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 90th meeting held on 14-18.09.2021 and SEIAA, Jharkhand has approved the ToRs in 92nd meeting held on 20th , 21st & 22nd September, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 145, date 23.09.2021. The final EIA / EMP submitted by PP to SEIAA on 06.07.2022 and received by SEAC on 07.07.2022.

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 17.07.2022.

Project & Location Details:

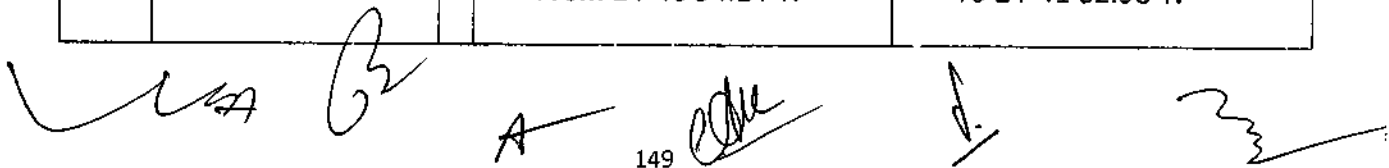
Sl	Parameter		Details
1	Project Name	:	Murgadanga Stone Deposit

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2	Lessee:	:	M/s Maa Vaishnavi 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: 11,18,975.0 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	:	20 KVA	
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
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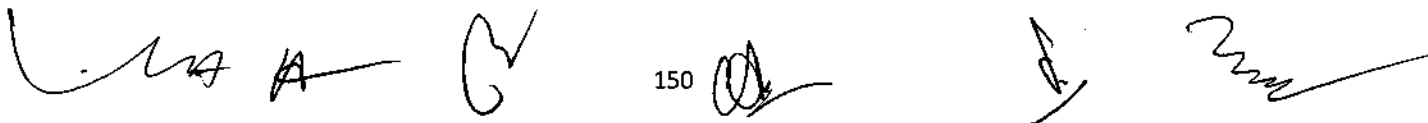
2	Longitude	From 87°46'01.61"E	To 87°46'11.07"E
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LAND DETAILS

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

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 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. 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) of 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



9	Public Hearing	:	On 07.04.2022 (JSPCB vide letter no. B-1301, dated 07.07.2022)
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Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-0.649ha
3	Waste Generation	:	5 years-11110.00 Cu.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 Working Depth	:	26 AMSL (24 bgl)
10	Water Table	:	10 AMSL (40 bgl)
11	Topography of Mine	:	Area represents a flat topography.
12	Diesel/Fuel Requirement	:	100L/Day

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 - 38mRL
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

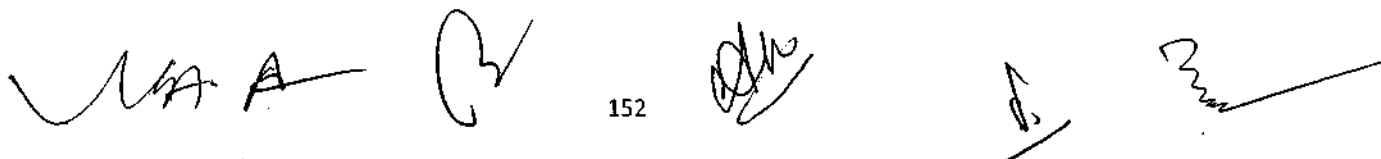
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

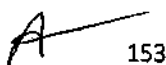
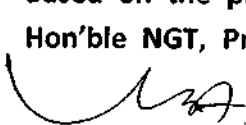
Air Quality Management

- 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:

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

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 Murgadanga Stone Deposit of M/s Maa Vaishnav Enterprises, Village : Murgadanga, Thana : Hiranpur, Dist. : Pakur, Jharkhand (2.52 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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

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

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 90th meeting held on 14-18.09.2021 and SEIAA, Jharkhand has approved the ToRs in 92nd meeting held on 20th , 21st & 22nd September, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 150, date 23.09.2021. The final EIA / EMP submitted by PP to SEIAA on 06.07.2022 and which was forwarded to SEAC on 07.07.2022.

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 17.07.2022

Project & Location Details :

Sl	Parameter		Details
1	Project Name	:	Murgadanga Stone Deposit
2	Lessee:	:	M/s Sai Construction 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	:	Cu.M.: 451050 Cu. M. Tonnes: 1127625.0

	Reserves		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	:	20 KVA
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
2	Longitude	From 87°46'23.8584"E	To87°46'32.1250"E

LAND DETAILS :

Murgadanga	Khata No.	Plot no.
	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 is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.

3	DMO	:	DMO, Pakur vide letter no. 780/M, dated 16.06.21 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) of Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
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	
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	:	Area represents a small hillock.	

	Mine		
12	Diesel/Fuel Requirement	:	100L/day

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	:	0.33 km	330

	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

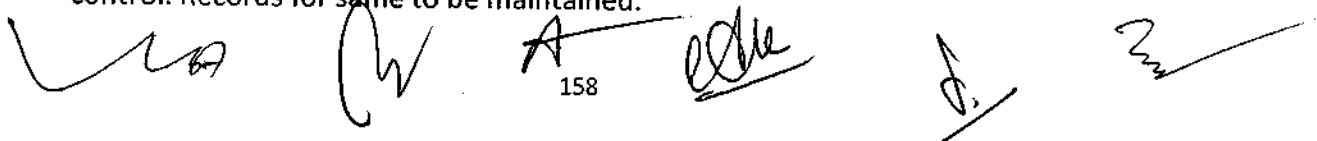
- Waste Generation will be 15950.10Cu.M. (in-situ), 19937.63 cum (loose) and 16946.98 cum (compact) during the life of Mine. Dump area proposed for waste storage is 0.384 ha. which shall be temporarily dump on south eastern corner of the applied lease area. The Waste shall be removed which will be used in maintenance of mine road and 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.



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

Undertaking submitted affirming:

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

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 Murgadanga Stone Deposit of M/s Sai Construction, Village : Murgadanga, Thana : Hiranpur, Dist. : Pakur, Jharkhand (2.165 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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

(Proposal No. : SIA/JH/MIN/ 68194/2021)

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 92nd meeting held on 20-23.10.2021 and SEIAA, Jharkhand has approved the ToRs in 93rd meeting held on 26th, 27th & 28th October, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 203, date

30.10.2021. The final EIA / EMP submitted by PP to SEIAA on 06.07.2022 and which was forwarded to SEAC on 07.07.2022.

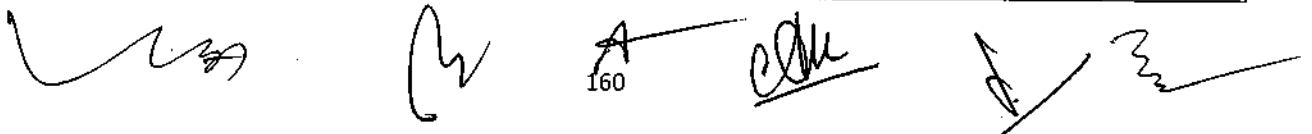
EC Application for: Production capacity: 112450 TPA or 44,980 cum/annum Waste: 11310.00 cum

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 17.07.2022

PROJECT and LOCATION Details:

Sl	Parameter		Details
1	Project Name	:	Murgadanga Stone Deposit
2	Lessee:	:	M/s Sri Ganesh Stone Works, Partner's- Sri Prabhakar Kumar Sinha & Sri Styam Punj, at Registered off.-Purankama, P.O+District – Sheikhpura, State –Bihar
3	Lease Address	:	Village – Murgadanga, P.S. – Hiranpur, District – Pakur, Jharkhand
4	Lease Area	:	Ha:- 2.10 ha Acres:- 5.21 Acres
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	30 Lakhs
7	EMP Budget	:	Capital: 3.07 Lakhs Capital: 3.27 Lakhs
8	CSR / CER Budget	:	Rs. 0.60 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 449280.00 Cu. M. Tonnes: 1123200.00 Tones
11	Mine Life	:	10.25 or 10.00 years
12	Man power	:	35
13	Water Requirement	:	9.25 - 9.50 KLD (Drinking:- 0.25 KLD, Dust Suppression:- 5.00 KLD, Plantation:- 4.0 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	20 KVA
16	Crusher	:	No crusher
17	Nearest Water Body	:	Torai Nadi, 2.67 km, S direction
18	Nearest Habitation	:	Ganeshpur 0.70 km
19	Nearest Rail Station	:	Tilbhita Railway station, approx. 7.40 km
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi approx. 290.60 km



21	Nearest Forest	:	Dhangora Pahar PF, Approx. 6.75 km towards S direction. Protected Forest near Belpahari Village, Approx. 3.24 km towards WNW direction. Protected Forest near Bhandaro village, Approx. 4.10 km towards NW direction.
22	Road & Highways	:	SH-18, Approx. 15.60 km. in WSW direction. NH-34, Approx. 15.66 km. in NE direction.

CO-ORDINATES :

1	Latitude	From 24°41'05.87"N	To 24°41'10.57"N
2	Longitude	From 87°46'07.11"E	To 87°46'15.90"E

LAND DETAILS :

		Khata no.	Plot no.
1	Murgadanga	09	122
		103	125, 126
		89	127, 127/1513, 127/1514
		99	123

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 506/M dated 27.03.2021.
2	CO	:	The CO, Hiranpur, Pakur vide letter no. 299 dated 24.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide memo no. 513/ M, dated 30.03.2021 certified that there are two lease (7.35 acre & 6.97 acres) within 500 m radius of the proposed project. Total lease area within 500 meter is 7.90 ha or 19.53 acre.
4	DFO Wild Life	:	DFO Wildlife Hazaribag vide letter no. 786 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. 325 dated 17.02.2021 certified that the distance from the reserved

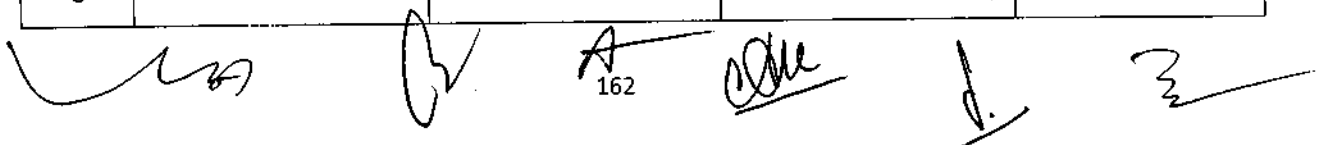
			/ protected forest from the project site is more than 250 M.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no 878/M dated 21.06.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 13-08-2020
8	Mine Plan Approval	:	DMO, Pakur Vide Memo no. 1166/M, Pakur dated 16/07/2021
9	Public Hearing	:	On 07.04.2022

Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method	
2	Quarry Area	:	5 years-1.011 ha	Life of Mine - 1.640 ha
3	Waste Generation	:	5 years-11310.00 Cu.M	Life of Mine -11310.00 Cu.M
4	Stripping Ratio	:	1: 0.02	
5	Working Days	:	300	
6	Bench: size & No	:	6m x 6m	
7	Elevation of Mine	:	52 AMSL to 58 AMSL	
8	Ground Level Elevation	:	25 AMSL	
9	Ultimate Working Depth	:	20 AMSL (5m bgl)	
10	Water Table	:	10 AMSL (15m bgl)	
11	Topography of Mine	:	Area represents a undulating topography	
12	Diesel/Fuel Requirement	:	100L/day	

Production Details

Year	Production of stone (Cum)	Production of stone (Tonne) Cum*2.5	Waste Generation (cum)	Bench RL in Meters
1 st	39130.00	97825.00	5980.00	58 mRL - 50 mRL
2 nd	41990.00	104975.00	5330.00	56 - 44 mRL
3 rd	44460.00	111150.00	Nil	50 mRL- 38 mRL



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4 th	42250.00	105625.00	Nil	44 mRL - 38 mRL
5 th	44980.00	112450.00	Nil	38 mRL-26 mRL
Total	212810.00	532025.00	11310.00	

Land Use :

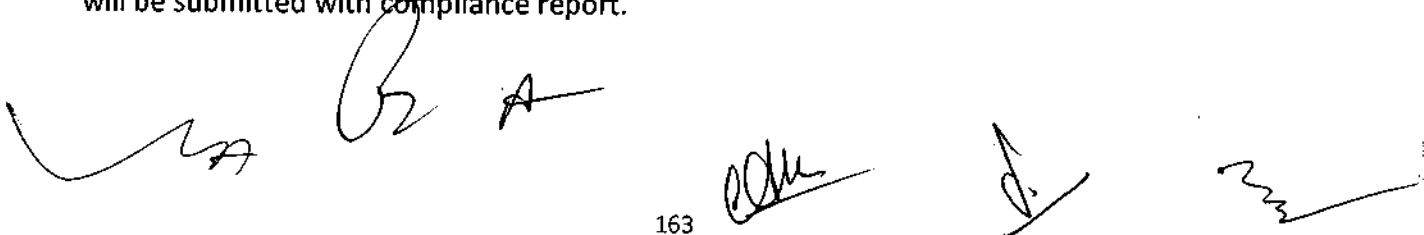
Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.011	1.640 (0.101 ha area shall be backfilled & after backfilling entire area will be converted into water reservoir)
Road	0.011	0.011	0.003 (0.008 comes under quarry)
Proposed Dump	Nil	0.335	Nil
Safety Zone Plantation	Nil	0.461	0.461
Total	0.011	1.818	2.10
Unused Area	2.089	0.282	0.000

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.461 ha	1150
2	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 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 11310.00 Cu.M. during the Plan Period. At Plan Period proposed waste shall be temporarily dump on eastern side. Some quantity of the removed gritty soil would also be used for road dressing and plantation. After conceptual period De-Stoned area of quarry will be reclaimed to the extent possible.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

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

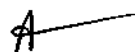
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

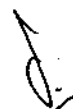
Undertaking submitted affirming:

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

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 Murgadanga Stone Deposit of M/s Sri Ganesh Stone Works, Village : Murgadanga, Thana : Hiranpur, Dist. : Pakur, Jharkhand (2.10 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.








Day 4 : July 18th , 2022 [Monday]

Consideration of Proposals

1. Timra Stone Deposit of Sri Josef Surin, Village : Timra, Thana no. : 83, Distt. : Khunti, Jharkhand (0.938 Ha).

(Proposal No. : SIA/JH/MIN/ 275895/2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 11111.40 cu.m/annum or 30000.78 TPA

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

This is a new project which has been taken for appraisal on 18.07.2022.

Project and Location Details :

Sl	Parameter	Details	
1	Project Name	: Timra Stone Deposit	
2	Lessee:	: Sri Josef Surin S/o Late Markus Surin, At - Buruegi, Gatigarha, P.S.- Bano, Jitutoli, District- Simdega, Jharkhand	
3	Lease Address	: Village – Timra, Thana No. 83, District – Khunti, State –Jharkhand.	
4	Lease Area	: 0.938 ha	Acres-2.32 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 20 Lakhs	
7	EMP Budget	: Capital: 2.38 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 58369.50 cum	Tonnes: 157597.65 tons
11	Mine Life	: 5.0 years	
12	Man power	: 22	
13	Water Requirement	: 5.34 KLD (Drinking: 0.22 KLD, Dust Suppression: 2.63 KLD, Plantation: 2.49 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: 5 KVA	
16	Crusher	: No crusher	
17	Nearest Water Body	: Karo Nadi, 6.5 km, West direction	
18	Nearest Habitation	: Marikuti, 3.0km	

19	Nearest Rail Station	:	Karra Railway station, approx. 1.62 km towards East direction.
20	Nearest Air Port	:	Birsa Munda Airport, approx. 30.21 km towards NNE direction.
21	Nearest Forest	:	Dense Forest, 3.0 km towards NNW direction of mine site.
22	Road & Highways	:	NH-20, Approx. 2.08 km. in West direction.

CO-ORDINATES

1	Latitude	From 23°07'28" N	To 23°07'23" N
2	Longitude	From 85°06'59" E	To 85°07'04" E

LAND DETAILS

Khata No.	Plot No.
130	1367

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Khunti vide letter no. 342/M, dated 13.12.2021.
2	CO	:	The CO, Karra (Khunti) vide letter no. 357(ii), dated 12.05.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in Khatiyani.
3	DMO	:	DMO, Khunti vide memo no. 199/M, dated 06.04.2022 certified that no other mining area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Ranchi vide letter no. 86, dated 09.02.2022 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, Khunti Division vide letter no. 604, dated 24.03.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC – cum – District Magistrate, Khunti vide letter no. 285/M, dated 25.09.2021 has informed that this project is part of District Survey Report (DSR) of Khunti district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 21.01.2021
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag vide Memo No. 66/G,

dated 25.02.2022

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-0.554ha Life of Mine - 0.604 ha
3	Waste Generation	:	5 years-12382.79 cu.m
4	Stripping Ratio	:	1: 0.4
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	632 AMSL to 636 AMSL
8	Ground Level Elevation	:	632 AMSL
9	Ultimate Working Depth	:	616 AMSL (14mbgl)
10	Water Table	:	612 AMSL (20mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	5kg/day
13	Diesel/Fuel requirement	:	30lt/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	29999.57	11110.95	3854.55	628mRL - 631mRL
2 nd	30000.17	11111.18	1884.57	616mRL - 634.50mRL
3 rd	30000.17	11111.18	2534.57	616mRL - 634.50mRL
4 th	29998.35	11110.50	1234.50	622mRL - 636mRL
5 th	30000.78	11111.40	2874.60	622mRL - 636mRL
Total	149999.04	55555.21	12382.79	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha)
Excavation/mining	Nil	0.554 (0.041 BACKFILL)	0.554 (entire area will be converted into water reservoir)
Road	Nil	Within mining	Within mining
Waste dump	Nil	Nil	Nil

SA A 168

Crusher	Nil	0.05 (included in mining)	0.05 (included in mining)
Plantation (Green Belt)	Nil	0.334 (Within safety zone)	0.334 (Within safety zone)
Total lease area	0.938	0.938	0.938

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.334ha	830
2	Haul /Approach Road	:	0.160 km	160

- 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 12382.79 cum during the plan period. During plan period the proposed waste shall be temporarily dump on western side of the applied area.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles 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 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, dischargefrom 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 e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

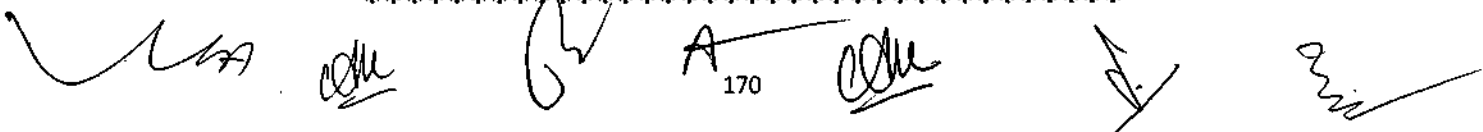
Undertaking submitted affirming:

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

During the presentation the following documents were sought :

- i. Land use table to be revised.
- ii. Water balance diagram to be revised.
- iii. CER budget to be revised.

The project will be taken up for appraisal, on receipt of the above documents.

Handwritten signatures and initials at the bottom of the page, including a large signature on the left, a signature with '170' below it, and several other signatures on the right.

2. Kanadih Stone Deposit of Sri Josef Sanga, Village : Kanadih, Thana no. : 226, Dist. : Khunti, Jharkhand (0.648 Ha).

(Proposal No. : SIA/JH/MIN/ 274927/2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 6816.40 cu.m/annum or 18404.28 TPA

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

This is a new project which has been taken for appraisal on 18.07.2022.

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Kanadih Stone Deposit
2	Lessee:	: Sri Josef Sanga S/O Sh. Benedick Sanga Address- At- Kanadih, P.O.- Gutjora, P.S.- Khunti District- Khunti, Jharkhand -835210
3	Lease Address	: Village – Kanadih, Thana No. 226, District – Khunti, State –Jharkhand.
4	Lease Area	: 0.648 ha Acres-1.60 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 15 Lakhs
7	EMP Budget	: Capital: 4.36 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.30 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 34080.0 cum Tonnes: 92016.00 tons
11	Mine Life	: 5.0 years
12	Man power	: 17
13	Water Requirement	: 8.30 KLD (Drinking: 0.17 KLD, Dust Suppression: 5.25 KLD, Plantation: 2.88 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: 5 KVA
16	Crusher	: No crusher
17	Nearest Water Body	: Kanchi Nadi, 3.5 km, NNE direction
18	Nearest Habitation	: kanadih, 1.5km
19	Nearest Rail Station	: Bingaon Railway station, approx. 11.80 km towards West direction.
20	Nearest Air Port	: Birsa Munda Airport, approx. 18.60 km towards North direction.
21	Nearest Forest	: Dense Forest near Chanridih Village, 7.5 km towards SE direction.

22	Road & Highways	:	NH-20, Approx. 2.08 km. in West direction.
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CO-ORDINATES

1	Latitude	From 24°24'10.12" N	To 24°24'13.62" N
2	Longitude	From 85°24'56.39" E	To 85°24'59.30" E

LAND DETAILS

Khata No.	Plot No.
18	975 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Khunti vide letter no. 10/M, dated 11.01.2022.
2	CO	:	The CO, Sadar, Khunti vide letter no. 432, dated 14.05.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani.
3	DMO	:	DMO, Khunti vide memo no. 167/M, dated 28.03.2022 certified that no other mining area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Ranchi vide letter no. 87, dated 09.02.2022 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, Khunti Division vide letter no. 1467, dated 18.09.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC – cum – District Magistrate, Khunti vide letter no. 285/M, dated 25.09.2021 has informed that this project is part of District Survey Report (DSR) of Khunti district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 08.07.2021
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag vide Memo No. 74/G, dated 04.03.2022

Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-0.308ha Life of Mine - 0.308 ha
3	Waste Generation	:	5 years-2700.0 cu.m
4	Stripping Ratio	:	1: 0.1
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	608 AMSL to 618 AMSL
8	Ground Level Elevation	:	608 AMSL
9	Ultimate Working Depth	:	594 AMSL (14mbgl)
10	Water Table	:	588 AMSL (20mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	15kg/day
13	Diesel/Fuel requirement	:	30lt/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	18403.20	6816.00	2440.00	612mRL - 617mRL
2 nd	18403.20	6816.00	320.00	612mRL - 617mRL
3 rd	18404.28	6816.40	-	606mRL - 612mRL
4 th	18400.50	6815.00	1060.00	606mRL - 612mRL
5 th	18400.50	615.00	-	594mRL - 600mRL
Total	92011.68	27878.40	2700.00	

Land Use

Pattern of Utilization	Existing Land Use (Ha)	At the end of Plan period (Ha)	Conceptual stage (Ha)
Excavation/mining	Nil	0.308	0.308 (entire area will be converted into water reservoir)
Road	Nil	Within mining	Within mining
Waste dump	Nil	Nil	Nil
Crusher	Nil	Nil	Nil
Plantation (Green Belt)	Nil	0.34 (Within safety)	0.34

		zone)	(Within safety zone)
Total lease area	0.648	0.648	0.648

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.34ha	850
2	Haul /Approach Road	:	0.590 km	590

- 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

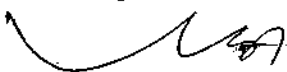
- Waste Generation will be 2700.0 cum during the plan period. During plan period the proposed waste shall be temporarily dump on western side of the applied area.

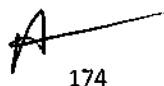
Water Quality Management

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





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- 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 'kaccharoad shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming :

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

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 Kanadih Stone Deposit of Sri Josef Sanga, Village : Kanadih, Thana no. : 226, Dist. : Khunti, Jharkhand (0.648 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.



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

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

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

This is a new project which has been taken for appraisal on 18.07.2022

The letter regarding inclusion DSR was issued by the DMO, Godda vide letter no. 99/M, dated 20.01.2022. Such letter is acceptable only if issued by Deputy Commissioner of the district.

Hence, the project was not considered for appraisal. The same shall be considered after the required letter issued by the DC is submitted.

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

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

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

This is a new project which has been taken for appraisal on 18.07.2022

The letter regarding inclusion DSR was issued by the DMO, Godda vide letter no. 99/M, dated 20.01.2022. Such letter is acceptable only if issued by Deputy Commissioner of the district.

Hence, the project was not considered for appraisal. The same shall be considered after the required letter issued by the DC is submitted.

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

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

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

This is a new project which has been taken for appraisal on 18.07.2022

The letter regarding inclusion DSR was issued by the DMO, Godda vide letter no. 99/M, dated 20.01.2022. Such letter is acceptable only if issued by Deputy Commissioner of the district.

Hence, the project was not considered for appraisal. The same shall be considered after the required letter issued by the DC is submitted.

		Protected Forest near Belpahari village, Approx. 3.50km. in ESE direction.
22	Road & Highways	: NH-114A, Approx. 0.45 km. in East direction. SH-18, Approx. 9.70 km. in West direction.

CO-ORDINATES



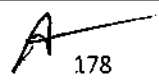



1	Latitude	From 24°43'48.67"N	To 24°43'58.92"N
2	Longitude	From 87°42'20.82"E	To 87°42'32.28"E

LAND DETAILS

	Khata No.	Plot No.
Hathigarh	22	916 & 917
	42	891 & 893
	54	907
	84	900, 901, 902, 903, 904, 905 & 906
	94	640/P, 641, 642

STATUTORY CLEARANCES

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 2239/M dated 31.12.2021.
2	CO	: The CO, Littipada vide letter no. 365 dated 26.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	: DMO, Pakur vide memo no. 962/M, dated 12.05.2022 certified that one other lease exists within 500 m radius and total area is less than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1897, dated 01.11.2021 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. 817, dated 28.05.2021 certified that the distance of reserved / protected forest is more than 250 m from the project site.
6	DSR	: Project's name is mentioned in District Survey report (DSR), Pakur.
7	Gram Sabha	: BDO, Littipara vide Letter no 675 dated 29/06/2021 informed that Gram Sabha conducted on 16.06.2021
8	Mine Plan Approval	: DMO, Pakur vide Memo no. 866/M on 10/05/2022

Working Details

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years–1.28 ha Life of Mine – 1.80 ha
3	Waste Generation	:	5 years– 2000 cu.m (1cum=2.8mt)
4	Stripping Ratio	:	1: 0.01
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	89 AMSL to 88 AMSL
8	Ground Level Elevation	:	85 AMSL
9	Ultimate Working Depth	:	70 AMSL (15 mbgl)
10	Water Table	:	59 AMSL (26 mbgl)
11	Topography of Mine	:	Area represents an undulating topography.
12	Explosive Requirement	:	26kg/day
13	Diesel/Fuel requirement	:	110lt/day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 st	101920	36400	1020	88 mRL – 82 mRL
2 nd	102010	36432	980	88 mRL – 82 mRL
3 rd	101920	36400	00	88 mRL – 82 mRL
4 th	101920	36400	00	82 mRL – 76 mRL
5 th	101923	36401	00	82 mRL – 76 mRL
Total	509693	182033	2000	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.28	1.80 ha area will be converted into water reservoir)
Haul Road	0.00	0.003	0.02
Proposed Crusher	0.00	0.11	Remove from lease

			area
Green belt in Safety Zone	0.00	0.94	0.94
Dump with Parapet wall & Garland Drain	0.00	0.00	0.00
Total area in use	0.00	2.45	2.76
Balance unused Area	2.76	0.31	0.00
Balance used Area	0.00	0.00	0.00
Total Applied Lease Area	2.76	2.76	2.76

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.94 ha	2350
2	Haul /Approach Road	:	0.06 km	60

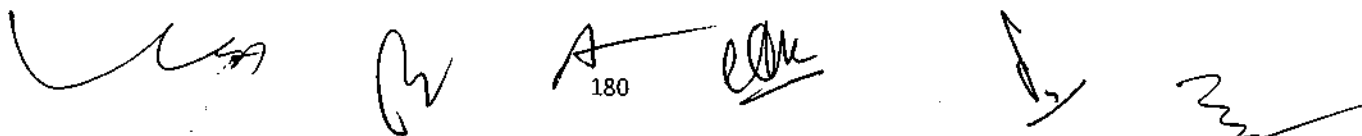
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality 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 2000 c.um or 5600 tonne (dump area- 0.00 ha) during the plan period. During Plan period gritty soil removed will be dumped at western part of the area with suitable precautions like parapet wall and garland drain. Some quantity of this soil will be used for road dressing and plantation.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 11m 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

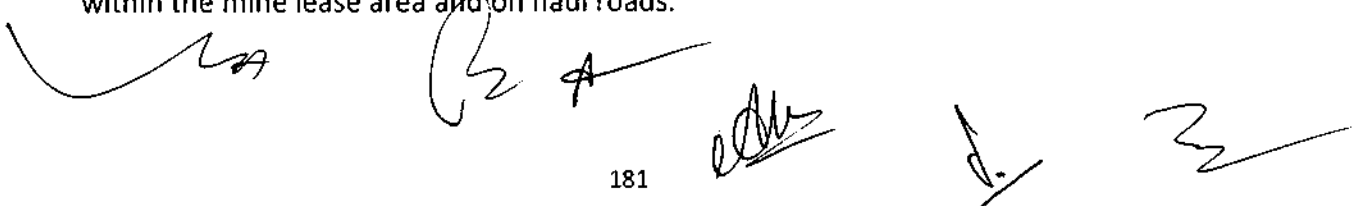
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

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 e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

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



13	Water Requirement	:	10.0 KLD (Drinking: 0.25 KLD, Dust Suppression: 5.66 KLD, Plantation: 3.98 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	6 KVA
16	Crusher	:	No crusher
17	Nearest Water Body	:	Torai Nadi, Approx. 9.0 km towards N direction. Bansoli Nadi Approx. 9.0 km towards SE direction.
18	Nearest Habitation	:	Rajbandh, 0.40 km
19	Nearest Rail Station	:	Nagarnabi Railway station, approx. 3.0 km towards ENE direction.
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Durgapur, approx. 122.0 km towards SSW direction.
21	Nearest Forest	:	Protected Forest near Mohanpur Village at approx. 2.0 km towards WSW direction.
22	Road & Highways	:	NH-114A, Approx. 6.20 km. in North direction. SH-7, Approx. 5.20 km in SE direction.

Co-Ordinates

1	Latitude	From 24°34'43.10"N	To 24°34'52.29"N
2	Longitude	From 87°50'19.68"E	To 87°50'25.51"E

Land Details :

Khata No.	Plot No.
9	783(P) & 785(P)
22	781, 795, 797(P), 798, 799 & 800(P)
24	794(P)
25	782

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur Vide letter no. 1089/M, dated 08.07.2021.
2	CO	:	The CO, Pakur vide letter no. 411, dated 24.03.2021 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. 868/M dated 10.05.2022 certified that the 03 other lease mine (6.22 acre, 9.00 acre & 10.75 acre) exists within 500 m radius from proposed project and total area is 29.81 acre or 12.06 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 656, dated 23.03.2021 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. 792 dated 19.05.2021 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. 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 18-02-2021
8	Mine Plan Approval	:	Vide letter no. G/2022-23-38 dated 06.05.2022

Working Details

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years– 0.846 ha Life of Mine – 0.924 Ha
3	Waste Generation	:	5 years– 5100 cu.m
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300
6	Benches: size & No	:	6m x 6 m
7	Elevation of Mine	:	38 AMSL to 40 AMSL
8	Ground Level Elevation	:	38 AMSL
9	Ultimate Working Depth	:	15 AMSL (23 mbgl)
10	Water Table	:	10 AMSL (28 mbgl)
11	Topography of Mine	:	Area represents a flat topography.
12	Explosive Requirement	:	Class – III (special gelatin 80% strength) & Class –VI explosive (detonator, electric detonator and safety length) is used
13	Diesel/Fuel requirement	:	8 litre/day

Production Details

Year	Production of stone (Cum))	Production of stone (Tonnes)	Waste Generation (CuM)	Bench RL in Meters

1 st	35400	95580	1650	40 mRL – 33 mRL
2 nd	36000	97200	1800	39 mRL - 33 mRL
3 rd	38550	104085	1650	39 mRL - 27 mRL
4 th	38550	104085	-	33 mRL - 27 mRL
5 th	38550	104085	-	33 mRL - 27 mRL
Total	187050	5,05,035	5100	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	0.846	0.924 (entire area will be converted into water reservoir)
Road	0.012	0.003	0.003
Green Belt in safety barrier	Nil	0.627	0.627
Total	0.012	1.476	1.554
Unused Area	1.542	0.078	0.000
Total applied area	1.554	1.554	1.554

ENVIRONMENT MANAGEMENT

Green Belt Development

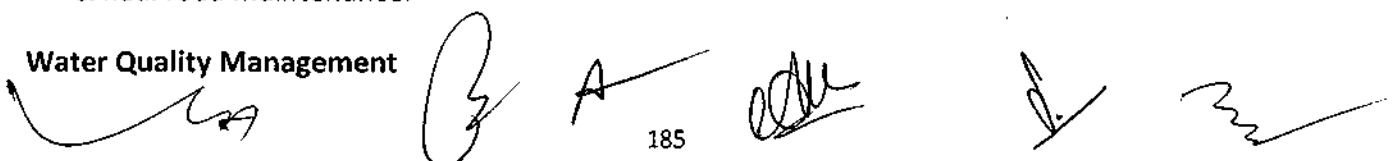
S. No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.627 ha	1570
2	Haul /Approach Road	: 0.42 km	420

- 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 5100 cum waste during the plan period which will be used for village & haul road maintenance.

Water Quality Management



- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

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

Undertaking submitted affirming:

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




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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.
- i. If any tree felling is required a permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 15, 16, 17, 18, 19, 20, 21 & 22.07.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II.

8. Basmata Stone Mine 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 /68198/2021)

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 92nd meeting held on 20-23.10.2021 and SEIAA, Jharkhand has approved the ToRs in 93rd meeting held on 26th, 27th & 28th October, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 204, date 30.10.2021. The final EIA / EMP submitted by PP to SEIAA on 04.07.2022 and received by SEAC on 06.07.2022.

EC Application for: Production capacity: 115474 TPA or 42,768 cum/annum
Waste: 10866.00 cum or 16299 MT

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 18.07.2022.

PROJECT and LOCATION Details :

Sl	Parameter		Details
1	Project Name	:	Basmata Stone Mine
2	Lessee:	:	M/s Heena Stone Works, Partner's- Sri Firoj Ahmed & Nasibul Sekh, at Village- Thanapada, Ward No-04 & P.O. – Pakur, District – Pakur, State – Jharkhand
3	Lease Address	:	Village – Basmata, P.S. – Pakur, District – Pakur, Jharkhand

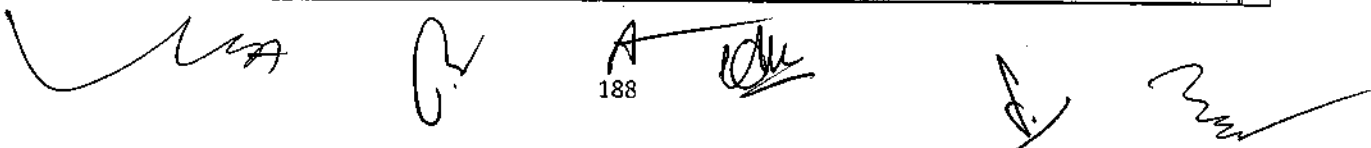
4	Lease Area	:	Ha: 2.58 ha	Acres: 6.37 Acres
5	Type of Land	:	Non Forest – Rayati Land	
6	Project Cost	:	35 Lakhs	
7	EMP Budget	:	Capital: 4.71 Lakhs	Capital: 3.27 Lakhs
8	CSR / CER Budget	:	Rs. 0.70 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.: 403920.00 Cu. M.	Tonnes: 1090584.00 Tones
11	Mine Life	:	9.50 or 10.00 years	
12	Man power	:	35	
13	Water Requirement	:	11.94 - 12.00 KLD (Drinking:-0.35 KLD, Dust Suppression:-4.90 KLD, Plantation:-6.69 KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	20 KVA	
16	Crusher	:	No crusher	
17	Nearest Water Body	:	Torai Nadi, 8.72 km, North direction	
18	Nearest Habitation	:	Chengadanga 0.60 km	
19	Nearest Rail Station	:	Nagarnabi Railway station, approx. 2.0 km	
20	Nearest Air Port	:	Birsra Munda Airport, Ranchi approx. 292.30 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. 4.30 km. in SE direction. NH-34 Approx. 12.7 km. in NE direction.	

CO-ORDINATES :

1	Latitude		From 24°34'46.09"N	To 24°34'49.89"N
2	Longitude		From 87°51'02.35"E	To 87°51'07.98"E

LAND DETAILS :

		Khata no	Plot No
1	Basmata	10	301, 523, 524, 530, 539
		13	302
		05	525, 531, 532



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		03	526, 527/P, 508/P, 509, 533P
		21	512
		08	529

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 463/M dated 14.03.2020.
2	CO	:	The CO, Pakur vide letter no. 1891 dated 26.12.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide letter no. 977/M, dated 24.06.2020 certified that there are five lease (7.43 acre, 4.60 acre, 1.85 acre, 4.95 acre, 4.42 acre) within 500 m radius of the proposed project. Total lease area within 500 meter is 11.99 ha or 29.62 acre.
4	DFO Wild Life	:	DFO, Wildlife Hazaribag Forest Division vide letter no. 335 dated 10.02.2020 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, Pakur Forest Division vide letter no. 302 dated 04.02.2020 certified that the distance from the reserved / protected forest from the project site is more than 250 M.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no 878/M dated 21/06/2021 has informed that this project is part of District Survey Report (DSR) of Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 21.01.2020
8	Mine Plan Approval	:	DDM, Santhal Pargana Circle, Dumka Vide Memo no. 201/DDM, Pakur dated 13/08/2020
9	Public Hearing	:	On 29.03.2022 (JSPCB vide letter no. B-1300, dated 07.07.2022)

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method	
2	Quarry Area	:	5 years-1.29 ha	Life of Mine - 1.0 ha
3	Waste Generation	:	5 years-16299.00 tons	Life of Mine -16299.00 tons
4	Stripping Ratio	:	1: 0.02	
5	Working Days	:	300	
6	Benches: size & No	:	6m x 6m	
7	Elevation of Mine	:	38 AMSL to 39 AMSL	

8	Ground Level Elevation		38 AMSL
9	Ultimate Working Depth	:	15 AMSL (23 mbgl)
10	Water Table	:	10 AMSL (28 mbgl)
11	Topography of Mine	:	Area represents a very gently sloping land
12	Diesel/Fuel Requirement	:	90 litre/day

Production Details :

Year	Production of stone (Cum)	Production of stone (Tones) Cum*2.7	Waste Generation (Tones)	Bench RL in Meters
1 st	42768.15	115474.00	7726.00	39 mRL – 33 mRL
2 nd	42660.00	115182.00	5468.00	39mRL - 33 mRL
3 rd	42631.11	115104.00	3105.00	33mRL- 27 mRL
4 th	42705.92	115306.00	Nil	33 mRL - 21 mRL
5 th	42635.18	115115.00	Nil	27 mRL-15 mRL
Total	213400.36	576181.00	16299.00	

Land Use :

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
Quarry	Nil	1.29 (including road)	1.92 (converted into water reservoir)
Road	Nil	Nil	Nil
Waste Dump	Nil	0.24	Nil
Safety Zone-Plantation	Nil	0.66	0.66
Total	Nil	2.19	2.58
Unused Area	2.58	0.39	Nil
Lease Hold Area	2.58	2.58	2.58

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.85 ha	2130

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2	Haul /Approach Road	:	0.100 km	100
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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 10866.00 Cu.M. or 16299.00 MT during the Plan Period. At Plan Period proposed waste shall be temporarily dump on south-western side. Some quantity of the removed gritty soil would also be used for road dressing and plantation. After conceptual period De-Stoned area of quarry will be reclaimed to the extent possible.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m 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

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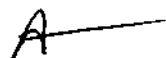
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

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

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 Basmata Stone Mine of M/s Heena Stone Works, Village : Basmata, P.S. : Malpahari OP, Tehsil : Pakur, Dist. : Pakur, Jharkhand (2.58 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.








9. **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 : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 90th meeting held on 14-18.09.2021 and SEIAA, Jharkhand has approved the ToRs in 92nd meeting held on 20th, 21st & 22nd September, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 146, date 23.09.2021. The final EIA / EMP submitted by PP to SEIAA on 06.07.2022 and which was forwarded to SEAC on 06.07.2022.

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 18.07.2022

Project & Location Details :

SI	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 Tones
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	:	20 KVA
16	Crusher	:	No crusher

17	Nearest Water Body	:	Torai Nadi
18	Nearest Habitation	:	Chengadanga 0.60 km
19	Nearest Rail Station	:	Nagarnabi Railway station, approx 2.0 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

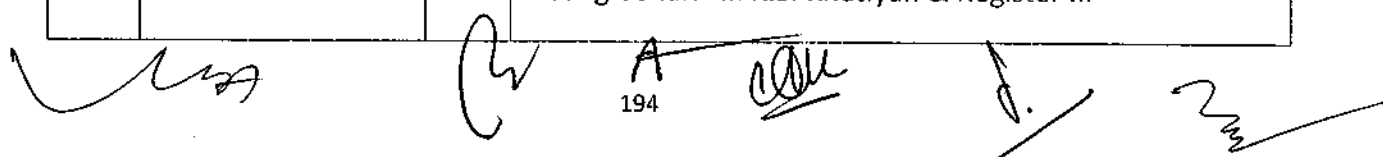
1	Latitude		From 24°34'53.40"N	To 24°35'00.10"N
2	Longitude		From 87°50'56.58"E	To 87°51'06.35"E

LAND DETAILS :

1.	Basmata	Khata no.	Plot no.
		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. Khatiyani & Register II.



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3	DMO	:	DMO, Pakur vide memo no. 756/M dated 15.06.21 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 878/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

12	Diesel/Fuel Requirement	:	95L/day
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Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in 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	

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	:	0.400 km	400

	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

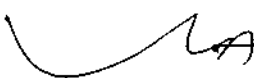

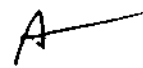



- Waste Generation will be 11040.00 Cu.M. during the life of Mine. Proposed waste shall be temporarily dump on eastern side. The Waste shall be removed which will be used in maintenance of mine road and village road.

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

Air Quality Management

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

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

Undertaking submitted affirming:

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

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 Basmata Stone Deposit of M/s New Muskan Stone Works, Village : Basmata, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.67 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.




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10. Jiyapani Stone Deposit of M/s Sri Hariom Stone Works (Prop. : Sri Gurdip Motwani), Village : Jiyapani, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.83 Ha).

(Proposal No. : SIA/JH/MIN/ 68472/ 2021)

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 92nd meeting held on 20-23.10.2021 and SEIAA, Jharkhand has approved the ToRs in 93rd meeting held on 26th, 27th & 28th October, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 205, date 30.10.2021. The final EIA / EMP submitted by PP to SEIAA on 06.07.2022 and which was forwarded to SEAC on 07.07.2022.

EC Application for: Production capacity:- 56,159.60 cum/annum or 140400.00 TPA of Stone

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 18.07.2022

PROJECT and LOCATION Details:

Sl	Parameter		Details
1	Project Name	:	Jiyapani Stone Deposit
2	Lessee:	:	M/s Hariom Stone Works, Proprietor- Sri Gurdip Motwani, S/O Late Thakurdas Motwani, At-Mission Road Sindhipara, Pakur, State –Jharkhand
3	Lease Address	:	Village – Jiyapani, P.S. – Maheshpur, District – Pakur, Jharkhand
4	Lease Area	:	Ha:- 2.83 ha Acres:- 7.00 Acres
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	35 Lakhs
7	EMP Budget	:	Capital: 3.17 Lakhs Capital: 3.27 Lakhs
8	CSR / CER Budget	:	Rs. 0.70 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cum:- 761880.00 Cum Tonnes:- 1904700.00 Tones
11	Mine Life	:	13.60 years or 14.0 years
12	Man power	:	30
13	Water Requirement	:	9.19 ~ 9.20 KLD (Drinking:0.30 KLD, Dust Suppression: 4.33 KLD, Plantation:4.56 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	10 KVA
16	Crusher	:	No crusher

17	Nearest Water Body	:	Bansloi Nadi, 5.86 km, S direction
18	Nearest Habitation	:	Jiyapani 1.00 km
19	Nearest Rail Station	:	Rajgram Railway station, Approx. 14.00 km in E direction
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi approx. 279.70 km towards SW direction.
21	Nearest Forest	:	Protected Forest, near Belpahari village, Approx. 1.80 km. Protected Forest, near Panchanandpur Village, Approx. 1.10 km. Protected Forest near Ganropahari Village. Approx. 7.80 km.
22	Road & Highways	:	SH-18 Approx. 15.10 km. in W direction SH-7 Approx. 14.00 km. in E direction. NH-114A Approx. 12.10 km. in N direction

CO-ORDINATES :

1	Latitude	From 24°32'42.62"N	To 24°32'49.88"N
2	Longitude	From 87°43'37.43"E	To 87°43'44.51"E

LAND DETAILS :

		Khata no.	Plot no.
1	Jiyapani	04	79(P)
		19	73(P), 75, 78(P), 80
		20	76(P), 77(P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1059/M dated 06.07.2021.
2	CO	:	The CO, Maheshpur vide letter no. 753 dated 10.09.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide letter no. 1177/M, dated 16.07.2021 certified that there are two other mining lease exists within 500 m radius of the proposed project. Total lease area within 500 meter is 7.64 ha or 18.88 acre which is more than 5 ha.

4	DFO Wild Life	:	DFO, Wildlife Hazaribag vide letter no. 1338, dated 27.07.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 545 dated 13.03.2021 certified that the distance from the reserved / protected forest from the project site is more than 250 m.
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) of Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 21-09-2020
8	Mine Plan Approval	:	DMO, Pakur vide Memo no. 1807/M, Pakur dated 11/10/2021
9	Public Hearing	:	On 06.04.2022 (JSPCB vide letter no. B-1299, dated 07.07.2022)

Working Details :

1	Mining Method	:	Opencast Semi - Mechanized Mining method	
2	Quarry Area	:	5 years-1.817 ha	End of the Life of Mine - 2.240 ha
3	Waste Generation	:	5 years- 17360.0 Cum	End of the Life of Mine - 17360.0 Cum
4	Stripping Ratio	:	1: 0.07	
5	Working Days	:	300	
6	Benches: size & No	:	6m x 6m	
7	Elevation of Mine	:	95 AMSL 105 AMSL	
8	Ground Level Elevation	:	55 AMSL	
9	Ultimate Working Depth	:	60 AMSL (5m bgl)	
10	Water Table	:	40 AMSL (15m bgl)	
11	Topography of Mine	:	Area represents a undulating topography	
12	Diesel/Fuel Requirement	:	95L/day	

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne) Cum*2.5	Waste Generation (cum)	Bench RL in Meters
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1 st	54838.00	137094.00	10640.00	103 mRL – 96 mRL
2 nd	55440.00	138600.00	6720.00	103 mRL – 90 mRL
3 rd	56159.60	140400.00	-	96 mRL- 90 mRL
4 th	56159.60	140400.00	-	90 mRL – 84 mRL
5 th	56159.60	140400.00	-	90 mRL-78 mRL
Total	278756.80	696894.00	17360.00	

Land Use :

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
Quarry	Nil	1.817	2.240 (Entire area will be converted into water reservoir)
Road/Haul Road	0.006	0.003	0.001
Proposed Dump	Nil	0.217	Nil
Plantation	Nil	0.589	0.589
Total	0.006	2.626	2.83
Unused Area	2.824	0.204	Nil
Lease Hold Area	2.83	2.83	2.83

ENVIRONMENT MANAGEMENT

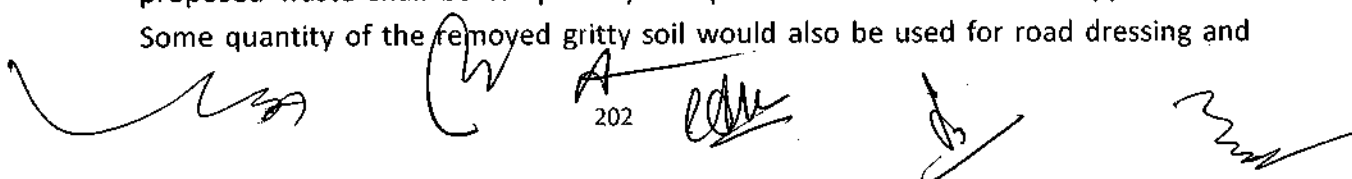
Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.589 ha	1470
2	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 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 17360.00 Cum. during the Plan Period. At Plan Period proposed waste shall be temporarily dump on northern side of the applied area. Some quantity of the removed gritty soil would also be used for road dressing and



plantation. After conceptual period De-Stoned area of quarry will be reclaimed to the extent possible.

Water Quality Management

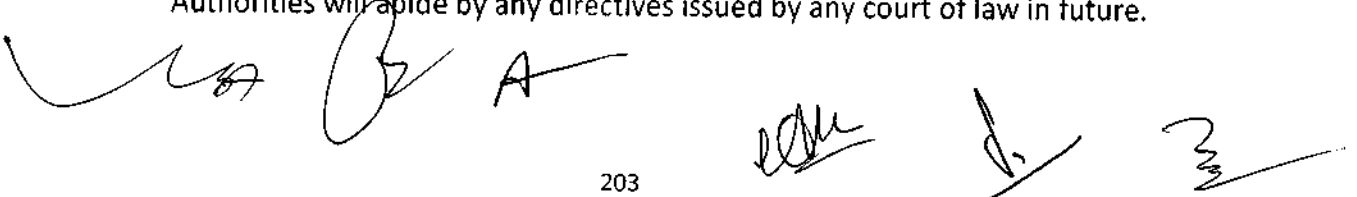
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall 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.

The bottom of the page contains several handwritten signatures and initials in black ink. From left to right, there is a large, flowing signature, followed by a smaller signature, then the letter 'A', and finally three more distinct signatures or initials.

- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission should be taken from competent authority.

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 Jiyapani Stone Deposit of M/s Sri Hariom Stone Works (Prop. : Sri Gurdip Motwani), Village : Jiyapani, 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.

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

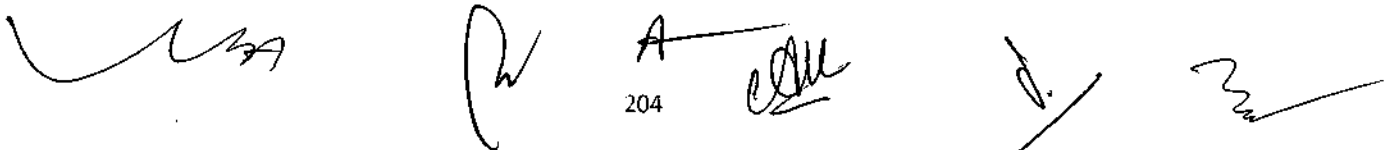
(Proposal No. : SIA/JH/MIN/ 66683/2021)

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 90th meeting held on 14-18.09.2021 and SEIAA, Jharkhand has approved the ToRs in 92nd meeting held on 20th, 21st & 22nd September, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 160, date 23.09.2021. The final EIA / EMP submitted by PP to SEIAA on 06.07.2022 and received by SEAC on 07.07.2022.

EC 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 18.07.2022

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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: 4.17Lakh / 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
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	10 KVA
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



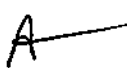



1	Latitude	From 24°41'11.11"N	To 24°41'18.06"N
2	Longitude	From 87°45'48.66"E	To 87°45'56.06"E

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. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1181/M, dated 17.07.2021 certified that 06 lease (5.21 acre, 5.15 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 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. 1394/M dated 10.08.2021
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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	Bench: 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
12	Diesel/Fuel Requirement	:	100 L/day

Production Details :

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in 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)
	Nil	1.117	1.968 (1.778 ha. RHW)

Quarry			& 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 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 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 stream 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.

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

Air Quality Management

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

Undertaking submitted affirming:

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

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 Bishanpur Stone Deposit of M/s Dada Bhai Stone Works, Village : Bishanpur, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (2.48 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

12. 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 : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 90th meeting held on 14-18.09.2021 and SEIAA, Jharkhand has approved the ToRs in 92nd meeting held on 20th, 21st & 22nd September, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 152, date 23.09.2021. The final EIA / EMP submitted by PP to SEIAA on 06.07.2022 and received by SEAC on 07.07.2022.

EC 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 18.07.2022

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

(Handwritten signatures and marks)

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	:	10 KVA	
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	To 87°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		
				02	371, 375(P), 382(P)		

STATUTORY CLEARANCES :



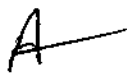



1	LOI/Lease docs	:	The Letter of Intent (LOI) has been issued by District Mining Office, Pakur vide letter no. 1088/M dated 08.07.2021.
2	CO	:	The CO, Hiranpur vide letter no. 95, dated 26.02.2021 has mentioned the plot nos. of the project is not recorded as

			"Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1182/M, dated 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 dated 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
12	Diesel/Fuel Requirement	:	95L/day

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 - 38mRL
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 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.

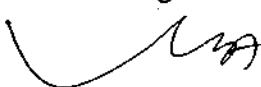
Water Quality Management

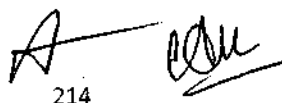
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall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




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

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 Bishanpur Stone Deposit of M/s Dada Bhai Stone Works, Village : Bishanpur, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (2.47 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

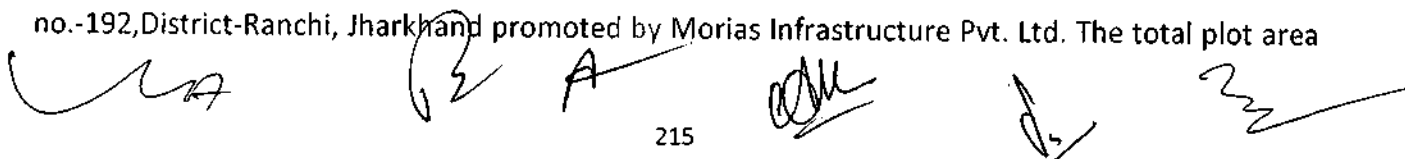
13. "Sky Dale " Residential Housing Complex of M/s Morias Infrastructure Pvt. Ltd., Village : Morabadi, Thana : Bariatu, Thana no. : 192, Distt. : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/76971/2022).

Name of the consultant : Gaurang Environmental Solutions Pvt. Ltd., Jaipur.

This is a case of violation which has been taken for appraisal on 18.07.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

The proposed project involves the construction of Residential Housing Complex "Sky Dale" at Plot No- 1109, 1110, 1117 & 1118; Khata No: 2,3,26 & 89, Village- Morabadi, Thana- Bariatu, Thana no.-192, District-Ranchi, Jharkhand promoted by Morias Infrastructure Pvt. Ltd. The total plot area



of the project as per deed is 8947.82 sq.m and total plot area as per site is 8663.12 sq.m. Total Built-up area envisaged for the project is 31,245.17 sq.m. and net Built up area is 25,046.74 sq.m. Thus, the project requires prior Environmental Clearance under Item 8 (a) (Building & Construction projects) of Schedule- EIA Notification 2006 and subsequent amendments thereafter from the State Level Environmental Impact Assessment Authority, Jharkhand.

Salient Features of the Project :

Particulars	Details
Project address	Village- Morabadi, Thana- Bariatu, Thana no.-192, District-Ranchi, Jharkhand
Type of project	Group Housing Project (Building & Construction)
Screening category	Category 'B-2', item 8(a), (Building and Construction)
Total Plot area	As per Deed : 8947.82 sq. m. As per Site : 8663.12 sq. m
Total Built up Area	31245.17 sq. m.
Ground Coverage	Permissible : 35% (3032.09 sq. m.) Proposed : 34.88 % (3021.69 sq. m.)
FAR	Permissible : 3.0 (25989.36 sq. m.) Proposed : 2.89 (25,036.42 sq. m.)
Green Area	31.03 % (2688.26 sq.m)
Parking facilities	Required Parking : 259 ECU Provided Parking : 260 ECU
Power requirement	Connected load : 3049.12 KW Max. demand : 1608.71 kVA
Power backup	DG sets of capacity of : 500 kVA (1no.)
Solar	70 KW
Water requirement & source	Total Water requirement : 134 KLD Fresh Water : 93 KLD Recycled Water : 41 KLD Source : Ground Water
Sewage treatment & disposal	Sewage treatment facility : STP of 125 KLD Capacity Waste water generated : 101 KLD

Municipal Solid waste	592 Kg/day
No. of RWH Pits	03 (1 storage +2 recharge structures)
Project cost	Rs. 36 .03Crores

Khata no. & Plot no. of the project :

Khata no.	Plot no.
2	1109
3	1110
26	1117
89	1118

Geographical coordinates:

Point -1		Point -2	
Latitude	: 23°23'35.77"N	Latitude	: 23°23'34.66"N
Longitude	: 85°20'32.92"E	Longitude	: 85°20'32.58"E
Point -3		Point -4	
Latitude	: 23°23'32.35"N	Latitude	: 23°23'33.36"N
Longitude	: 85°20'32.24"E	Longitude	: 85°20'30.37"E
Point 5		Point 6	
Latitude	: 23°23'34.25"N	Latitude	:23°23'36.75 "N
Longitude	: 85°20'29.14 "E	Longitude	: 85°20'30.00"E

The proposed Project involves the construction of Group Housing Project with Dwelling units (225 nos.), and other facilities like Community hall and retail shop etc.

Project facilities as under:-

S. No	Particulars	Details
1.	No of Blocks	4 Nos. Residential : 3 nos. (Block A, B, C) Community Hall : 1 No.

[Handwritten signatures and marks]

2.	No of Floors & Building Height	As under :-		
		Blocks	Floors	Height upto terrace level
		Block A	B+G+9	29.70 m
		Block B	B+G+9	29.70 m
		Block C	B+G+9	29.70 m
	Community hall	G F+1	9.1 m	
3.	Project facilities	Dwelling Units : 225 nos. ○ 2 BHK : 63 nos. ○ 3 BHK : 162 nos. Other facilities : Community hall, Retail shop, Gym.		

Land use Breakup

S. No	Particulars	Permissible	Proposed
1.	Total Plot area as per deed	8947.82 sq.m	
2.	Total Plot area as per site	8663.12 sq. m.	
3.	Total Built up Area	31245.17 sq. m.	
4.	Net Built up Area	25,046.74 sq. m.	
5.	Ground Coverage	35% (3032.09 sq. m.)	34.88% (3,021.69 sq. m.)
6.	FAR	3.0 (25,989.36 sq. m.)	2.89 (25,036.41 sq. m.)
7.	Landscape	31.03 % (2688.26 sq. m.)	
8.	Road & Paved Areas	34.09 % (2953.17 sq. m.)	

Built Up Area Details:

Blocks	Built-up area details (sq.m.)		
	Total Built up area	Total deductions	Net Built up area
Block A	9732.2	1951.64	7770.56
Block B	11626.2	2275.15	9351.06
Block C	9732.2	1951.64	7770.56
Community Block	154.56	--	154.56
Total	31, 245.17	6198.43	25046.74

Parking Details:

Particulars	Flats/ dwelling units	Basis	Required
Residential	225	@1 ECU/ Dwelling unit	225 ECU

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Visitors	-	@ 15% of total parking	34 ECU
			259 ECU

Required Parking : 259 ECS

Provided Parking : 260 ECS

Population Projection:

Water demand Calculation

S. No.	Particulars	Population	Fresh water demand	Treated water demand	Total water demand
1.	Residential	1125	@80 LPCD: 90 KLD	@21 LPCD: 24 KLD	114 KLD
2.	Staff	50	@20 LPCD: 1 KLD	@15 LPCD: 1 KLD	2 KLD
3.	Visitors	113	@5 LPCD: 1KLD	@10 LPCD: 1 KLD	2 KLD
4.	Community	42	@20 LPCD: 1 KLD	@20 LPCD: 1 KLD	2 KLD
5.	Landscaping (5lt/sq.m)			14 KLD	14 KLD
Total			93 KLD	41 KLD	134 KLD

WATER & WASTE WATER MANAGEMENT

- Domestic waste water to the tune of 101 KLD will be treated in sewage treatment plant based on MBBR technology with capacity of 125 KLD.
- Treated water from STP will be reused/ recycled for flushing (27 KLD), landscaping & general washing (14KLD) which will help in reducing the water demand & Excessive treated water will be used in road side plantation (50KLD).
- Efforts will be done for water conservation by the use of efficient and low flow fixtures.
- Water meter will be installed to monitor the water usage at the following points:
 - ❖ Fresh water intake
 - ❖ Inlet of flushing tanks
 - ❖ STP inlet
 - ❖ STP outlet
 - ❖ Landscaping

Characteristics of inlet and outlet of STP

Parameters	Influent	Treated effluent
pH	7.5 - 8.5	7 - 8

Suspended solids	100- 150 mg/l	<5 mg/l
BOD	200 - 250 mg/l	<5 mg/l
COD	450 - 600 mg/l	<60 mg/l
Oil & Grease	20-25 mg/l	<1 mg/l

SOLID WASTE CALCULATION

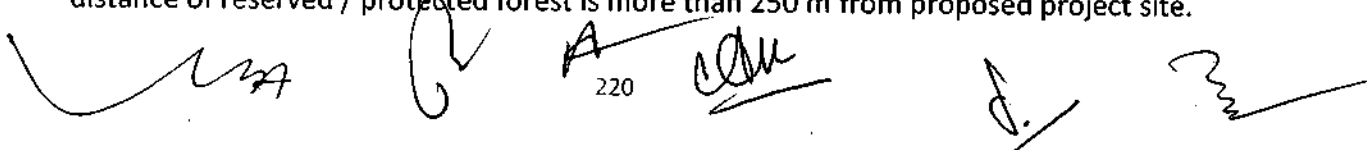
Particulars	Population	Basis	Quantity of waste generated (in kg/day)
Residential	1125	@ 0.5 kg/day	562.5
Staff	50	@0.25 kg/day	12.5
Visitors	113	@0.15 kg/day	16.95
Landscaping	0.27 Acre	@0.2 kg/acre/day	0.054
Total			592.004 say 592 Kg/day

SOILD WASTE MANAGEMENT:

Bins	Particulars	Treatment	Disposal
Green	Wet/Compostable waste	Collected in green colored bins	Will be treated in organic waste convertor.
White	Dry/ recyclable waste	No in-situ treatment. Collected in white colored bins and sent to solid waste collection point.	Other waste will be sent to Municipal corporation.
Black	Other waste/ Domestic hazardous waste	No in-situ treatment. Collected in Black colored bins and sent to solid waste collection point	

STATUTORY CLEARANCE

- Airport Authority of India issued a height clearance NOC vide its NOC ID – RANC/EAST/B/022716/122027, dated 08.04.2016
- Fire fighting Department, Jharkhand, Ranchi has issued a Advisory vide its Letter No. – 192, dated 23.05.2014.
- The DFO, Wildlife Ranchi Vide Letter No. 397 Dated 07.05.2022 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 Forest Division vide Letter No. 2177 Dated 11.05.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.



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- The CO, Baragai, Ranchi vide Letter No. 845 Dated 19.11.2020 has mentioned the plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyani.
- CGWA NOC for Ground Water abstraction has been obtained vide NOC No. CGWA/NOC/INF/ORIG/2022/14626 dated 21.02.2022, which was valid upto 20.02.2027.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 15, 16, 17, 18, 19, 20, 21 & 22.07.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV alongwith the following specific conditions :

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

14. "Residential Housing Complex Shri Vrinda Green Phase - III " of M/s Morias Infrastructure Pvt. Ltd., Village : Morabadi, Ward no. : 4, Thana : Bariatu, Thana no.: 192, Distt. : Ranchi, Jharkhand (Proposal No : SIA/JH/MIS/76970/2022).

Name of the consultant : Gaurang Environmental Solutions Pvt. Ltd., Jaipur.

This is a case of violation which has been taken for appraisal on 18.07.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

The proposed project involves the construction of Residential Housing Complex "Shri Vrinda Green Phase-III" at RS Plot No. 730, 731, 732, 736, 737, 738, 739, 740, 741, 742, 743; Khata No. 08, 61, 97 & 39, Village Morabadi,,ward No. 4, thana Bariatu, Thana No. 192, District Ranchi, Jharkhand promoted by Morias Infrastructure Pvt. Ltd. The total plot area of the project as per deed is 13884.96 sq. m., as per site is 13,882.47 sq. m and after POS is 13113.22 sq.m. & Total Built-up area envisaged for the project is 46795.90sq.m and net built-up area is 37159.35 sq.m Thus, the project requires prior Environmental Clearance under Item 8 (a) (Building & Construction projects) of Schedule- EIA Notification 2006 and subsequent amendments thereafter from the State Level Environmental Impact Assessment Authority, Jharkhand. Construction has been started on 01.12.2017 before getting environmental clearance. 90% of construction has been completed at project site till now.

Salient Features of the Project :

Particulars	Details
Project address	Village Morabadi, ward No. 4, thana Bariatu, Thana No. 192, District Ranchi, Jharkhand.
Type of project	Group Housing Project (Building & Construction)
Screening category	Category 'B-2', item 8(a), (Building and Construction)
Total Plot area as per deed	13884.96 sq. m
Total Plot area as per site	13,882.47 sq.m.
Plot area after P.O.S	13113.22 sq.m.
Total Built up Area	46795.90sq.m.
Net Built-up area	37159.35 sq.m
Ground Coverage	Permissible : 35% (4589.63 sq. m.) Proposed : 33.30 % (4366.70 sq. m.)
FAR	Permissible : 3.0 (39339.66 sq. m.) Proposed : 2.83 (37159.35 sq. m.)

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Green Area	26.69% (3500 sq. m.)	
Parking facilities	Required Parking	: 368 ECS
	Provided Parking	: 368ECS
Power requirement	Connected load	: 4224.50 KW
	Max. demand	: 2137.60 KW
Power backup	DG sets of capacity of	: 500 kVA, 1nos
Water requirement & source	Total Water requirement	: 195 KLD
	Fresh Water	: 135 KLD
	Recycled Water	: 60 KLD
	Source	: Ground water Supply
Sewage treatment & disposal	Sewage treatment facility	: STP of 180 KLD Capacity
	Waste water generated	: 150KLD
Municipal Solid waste	912 Kg/day	
No. of RWH Pits	04	
Project cost	Rs. 53.65 crores	

Khata no. & Plot no. of the project :

Khata no.	Plot no.
39	730, 731, 732
61	736, 737, 738
97	739, 740, 741
8	742, 743

Geographical coordinates:

Point -1		Point -2	
Latitude	: 23°23'56.46"N	Latitude	: 23°23'57.76"N
Longitude	: 85°20'50.71"E	Longitude	: 85°20'52.07"E
Point -3		Point -4	
Latitude	: 29°23'59.56"N	Latitude	: 23°23'59.82"N
Longitude	: 85°20'52.18"E	Longitude	: 85°20'52.64"E
Point 5		Point 6	
Latitude	: 23°23'59.13"N	Latitude	: 23°23'54.93"N

Longitude : 85°20'55.71"E	Longitude : 85°20'54.26"E
Point 7	Point 8
Latitude : 23°23'54.82"N	Latitude : 23°23'55.79"N
Longitude : 85°20'53.17"E	Longitude : 85°20'50.58"E

The proposed Project involves the construction of Group Housing Project with Dwelling units (320 nos.), and other facilities like Community Hall.etc.

Project facilities are as under:-

S. No	Particulars	Details																						
1.	No of Blocks	4 Nos. (Block A, B, C, D)																						
2.	Block wise No. of Floors	As under:- <table border="1" style="margin-left: 20px;"> <thead> <tr> <th rowspan="2">Blocks</th> <th rowspan="2">Number of floors</th> <th colspan="2">Height (in m)</th> </tr> <tr> <th>Upto Terrace Level</th> <th>Upto Mumty Level</th> </tr> </thead> <tbody> <tr> <td>Block A</td> <td>B + G + 8 floors</td> <td>26.65</td> <td>30.55</td> </tr> <tr> <td>Block B</td> <td>B+G+10</td> <td>32.25</td> <td>36.25</td> </tr> <tr> <td>Block C</td> <td>B+G+10</td> <td>32.25</td> <td>36.25</td> </tr> <tr> <td>Block D</td> <td>B+G+12</td> <td>38.05</td> <td>42.5</td> </tr> </tbody> </table>	Blocks	Number of floors	Height (in m)		Upto Terrace Level	Upto Mumty Level	Block A	B + G + 8 floors	26.65	30.55	Block B	B+G+10	32.25	36.25	Block C	B+G+10	32.25	36.25	Block D	B+G+12	38.05	42.5
Blocks	Number of floors	Height (in m)																						
		Upto Terrace Level	Upto Mumty Level																					
Block A	B + G + 8 floors	26.65	30.55																					
Block B	B+G+10	32.25	36.25																					
Block C	B+G+10	32.25	36.25																					
Block D	B+G+12	38.05	42.5																					
3.	Block wise Dwelling units	320 nos. (8 dwelling unit/ floor) (3 BHK each) A Block : 64 B Block : 80 C Block : 80 D Block : 96																						

Land use Breakup

S. No	Particulars	Permissible	Proposed
1.	Total Plot area as per		13,884.96 sq. m.

[Handwritten signatures and marks are present below the table, including a signature on the left, a signature in the middle with the number 224, and several other scribbles on the right.]

	deed		
2.	Total Plot area as per site	13,113.22 sq. m.	
3.	Gross Built up area	46,795.90 sq. m	
5.	Ground Coverage	35% (4589.63 sq. m.)	33.30 % (4366.70 sq. m.)
6.	Green Area	26.69% (3500.00 sq. m.)	
7.	Paved area	40.01% (5246.52 sq. m.)	

Built Up Area Details:

Floor Name	Block-A+B+C+D+ Community Hall Block Built-up area details (sq.m.)		
	Total Built up area	Total deductions	Net Built up area
Basement	4043.40	3762.34	281.06
Ground floor	4367.4	3858.11	509.29
First floor	4030.11	100.35	3929.76
Second floor	3706.11	100.35	3605.76
Third floor	3706.11	100.35	3605.76
Fourth floor	3706.11	100.35	3605.76
Fifth floor	3706.11	100.35	3605.76
Sixth floor	3706.11	100.35	3605.76
Seventh floor	3706.11	100.35	3605.76
Eighth floor	3706.11	100.35	3605.76
Ninth floor	2770.22	79.20	2691.02
Tenth Floor	2770.22	79.20	870.99
Eleventh Floor	935.89	27.45	908.44
Twelfth Floor	935.89	27.45	908.44

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Total	46795.90	8636.55	37159.35
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Parking Details:

Particulars	Flats/ dwelling units	Basis	Required
Residential	320	@1 ECU/ flat	320 ECU
Visitors	-	@ 15% of total parking	48 ECU
			368 ECU

Required Parking : 368 ECU

Provided Parking : 368 ECU



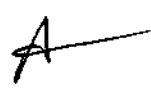
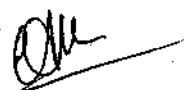


Population Projection:

S. No	Particulars	No of flats/Area	Basis	Population
1.	Residential	320	@ 5 person/Flat*	1600
2.	Visitors	-	@15 % of residential Population	240
3.	Community hall (648 sqm.)	6972.48 sq. ft.	40 sq.ft./ person	174
4.	Staff			50
Total				2064

Water demand calculation

S. No.	Particulars	Population	Fresh water	Treated water	Total water
1.	Residential	1600	@ 80 LPCD: 128 KLD	@21 LPCD: 33.6 say 34 KLD	162 KLD
2.	Visitors	240	@5 LPCD: 1 KLD	@10 LPCD: 3 KLD	4 KLD
3.	Community Hall	174	@20LPCD: 4 KLD	@20 LPCD: 4 KLD	8 KLD
4.	Staff	50	@25 LPCD: 2 KLD	@20 LPCD: 1 KLD	3 KLD
5.	Landscaping @ 5 lt/sq.m.		-	18 KLD	18 KLD
Total			135 KLD	60 KLD	195 KLD

WATER & WASTE WATER MANAGEMENT

Domestic waste water to the tune of 150 KLD will be treated in sewage treatment plant based on MBBR technology with capacity of 180 KLD.

Treated water from STP will be reused/ recycled for flushing (42 KLD), landscaping & general washing (18 KLD) which will help in reducing the water demand & Excessive treated water will be used in road side plantation (75 KLD).

Efforts will be done for water conservation by the use of efficient and low flow fixtures.

Water meter will be installed to monitor the water usage at the following points:

- Fresh water intake
- Inlet of flushing tanks
- STP inlet
- STP outlet
- Landscaping

Characteristics of inlet and outlet of STP

Parameters	Influent	Treated effluent
pH	7.5 - 8.5	7 - 8
Suspended solids	100- 150 mg/l	<5 mg/l
BOD	200 - 250 mg/l	<5 mg/l
COD	450 - 600 mg/l	<60 mg/l
Oil & Grease	20-25 mg/l	<1 mg/l

SOLID WASTE CALCULATION

Particulars	Population	Basis	Quantity of waste generated (in kg/day)
Residential	1600	0.5 kg/day	800
Visitor	414	@0.25 kg/day	103.5
Staff	50	@0.15 kg/day	7.5
Landscaping	0.8648	@0.133 kg/acre/day	0.115
Total			911.115 say 912

SOILD WASTE MANAGEMENT:

Bins	Particulars	Treatment	Disposal
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Green	Compostable waste	Collected in green colored bins and disposed through organic waste convertor & compost pit	Organic waste convertor
White	Dry/ recyclable waste:	No in-situ treatment. Collected in white colored bins and sent to solid waste collection point.	Segregated waste will be handed over to authorized waste pickers or waste collectors.
Black	Other waste/ Domestic hazardous waste	No in-situ treatment. Collected in Black colored bins and sent to solid waste collection point	

STATUTORY CLEARANCE

- Airport Authority of India issued a height clearance NOC vide its NOC ID – RANC/EAST/B/020216/120503, dated 18.02.2016.
- Fire fighting Department, Jharkhand has issued a Advisory vide its Letter No. – 305, dated 29.06.2015.
- The DFO, Wildlife Ranchi Vide Letter No. 398 Dated 07.05.2022 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 Forest Division vide Letter No. 2174 Dated 11.05.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Baragai, Ranchi vide Letter No. 845 Dated 19.11.2020 has mentioned the plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyar.
- CGWA NOC for Ground Water abstraction has been obtained vide NOC No. CGWA/NOC/INF/ORIG/2021/13868 dated 30.11.2021, which was valid upto 29.11.2026.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 15, 16, 17, 18, 19, 20, 21 & 22.07.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV Annexure IV alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.

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

15. Group Housing Project "Regalia Phase - I" of M/s Samridhi Infrastructure, Mouza : Argora, P.S. : Argora, P.S. no. : 207, Tehsil : Kanke, Distt. : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/282138/2022).

Name of the consultant : Gaurang Environmental Solutions Pvt. Ltd., Jaipur.

This is a new project which has been taken for appraisal on 18.07.2022.

The proposed project involves the construction of Group Housing Project "Regalia Phase-I" coming up at Mouza- Argora PS- Argora P.S, No. 207 Plot No. 1528(P), 1529 Khatiyon No.34 Dist- Ranchi, Jharkhand developed by Samridhi Infrastructure. The total plot area of the project is 6232.08 sq. m. and net plot area is 5588.26 sq. m. The Built-up area envisaged for the project is 23,406.58 sq.m. 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 :

Particulars	Details
Project address	Mouza- Argora PS- Argora P.S, No. 207 Plot No. 1528(P), 1529 Khatiyon No.34 District- Ranchi, Jharkhand

Type of project	Group Housing Project (Building & Construction)	
Screening category	Category 'B-2', item 8(a), (Building and Construction)	
Total Plot area	10068.40 sq. m	
Net Plot area	5588.26 sq. m.	
Built up Area	23,406.58 sq. m.	
Ground Coverage	Permissible : 35% (1,955.89 sq.m.) Proposed : 31.03% (1,734.15 sq.m.)	
FAR	Permissible : 3.0 (18,696.24 sq.m.) Proposed : 2.98 (18,581.3 sq.m.)	
Green Area	838.24 sq. m (15 %)	
Parking facilities	Required parking	: 225 ECU
	Proposed Parking	: 241 ECU
Power requirement	Connected load	: 1566.84 KW
	Maximum demand	: 808.88 KW
Power backup	2 nos. of DG sets of cumulative capacity 150 KVA	
	o	100 kVA : 1no.
	o	50 kVA : 1no.
Solar	50 KW	
Water requirement & source	Total Water requirement	: 98 KLD
	Fresh Water	: 73 KLD
	Recycled Water	: 25 KLD
	Source	: Ground Water
Sewage treatment & disposal	Sewage treatment facility	: STP of 100 KLD Capacity (70 KLD+30 KLD)
	Waste water generated	: 79 KL
Solid waste generated	456 kg/day	
No. of RWH Pits	03 Nos.	
Project cost	Rs. 42.48 Crores	
EMP amount	Capital cost	: Rs. 278 lacs
	Annual recurring	: Rs 34 lacs
Social EMP	Rs. 86 Lakhs	

Geographical coordinates:

Point -1		Point -2	
Latitude	: 23°21'41.70"N	Latitude	: 23°21'41.05"N
Longitude	: 85°17'53.98"E	Longitude	: 85°17'54.29"E
Point -3		Point -4	
Latitude	: 23°21'38.55"N	Latitude	: 23°21'37.11"N
Longitude	: 85°17'54.01"E	Longitude	: 85°17'52.86"E
Point 5		Point 6	

Latitude : 23°21'37.29"N	Latitude : 23°21'40.19"N
Longitude : 85°17'51.57"E	Longitude : 85°17'52.05"E
Point 7	
Latitude : 23°21'41.82"N	
Longitude : 85°17'52.76"E	

The proposed Project involves the construction of Group Housing Project with Dwelling units (152 nos.), and other facilities like retail shop: 1 No, community hall. etc.

Project facilities are as under:-

S. No	Particulars	Details									
1.	No of Blocks	2 Nos. Residential : 2 nos. (Block A, B)									
2.	No of Floors & Building Height	As under :- <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Blocks</th> <th>Floors</th> <th>Height of the building</th> </tr> </thead> <tbody> <tr> <td>Block A</td> <td>B+G+13</td> <td>46.55 m</td> </tr> <tr> <td>Block B</td> <td>S+13</td> <td>41.10 m</td> </tr> </tbody> </table>	Blocks	Floors	Height of the building	Block A	B+G+13	46.55 m	Block B	S+13	41.10 m
Blocks	Floors	Height of the building									
Block A	B+G+13	46.55 m									
Block B	S+13	41.10 m									
3.	Project facilities	Dwelling Units : 152 Nos. ➤ 2 BHK : 48 nos. ➤ 3 BHK : 104 nos. Commercial (1 nos.) : 51.79 sq. m Health Club : 40.13 sq. m Community Hall : 277.85 sq. m									

Land use Breakup

S. No	Particulars	Permissible	Proposed
1.	Total Plot area as per deed	6232.08 sq. m.	
2.	Net Plot area	5588.26 sq. m.	
3.	Total Built up Area	23,406.58 sq. m.	
4.	Ground Coverage	35% (1,955.89 sq.m.)	31.03% (1,734.15 sq.m.)
5.	FAR	3.0 (18,696.24 sq.m.)	2.98 (18,581.3 sq.m.)
6.	Landscape	15 % (838.24 sq.m.)	
7.	Road & Paved Areas	53.97 % (2572.28 sq. m.)	

Built Up Area Details:

Floor Name	Building Name				Total	
	BLOCK A		BLOCK B		Total	Total
	Proposed BUA (Sq.m.)	Proposed FAR (Sq.m.)	Proposed BUA (Sq.m.)	Proposed FAR (Sq.m.)	Proposed BUA (Sq.m.)	Proposed FAR (Sq.m.)
Basement Floor	2198.54	41.43	0.00	0.00	2198.54	41.43
Stilt Floor	0.00	0.00	368.73	20.11	368.73	20.11
Ground Floor	1365.43	389.72	0.00	0.00	1365.43	389.72
First Floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Second Floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Third floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Fourth floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Fifth floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Sixth floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Seventh floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Eighth floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Ninth floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Tenth Floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Eleventh Floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Twelfth Floor	1120.84	1050.92	408.58	372.34	1529.42	1423.26
Thirteenth Floor	1120.84	1050.92	0.00	0.00	1120.84	1050.92
Terrace	0.00	0.00	0.00	0.00	0.00	0.00
Total	18134.89	14093.11	5271.69	4488.19	23406.58	18581.30

Parking Details:

Particulars	Details	Basis	Required ECU	Required Two wheelers
Residential	152 units	@1ECU/unit for 0-140 sq.m	152 ECUs	152 nos.
Commercial	51.79 sq.m	@1ECU/50 sq.m	1 ECU	3 nos.
Health Club	40.13 sq.m	@1ECU/50 sq.m	1 ECU	2 nos.

Community Hall	277.85 sq.m		1 ECU	3 nos.
Visitors		@10% of the Residential	16 ECU	-
Required ECU			171 ECU	160 nos.

Required Parking : 225 ECUs

Provided Parking : 241 ECUs

Details of Parking Provided

S. No.	Particulars		Cars	Two Wheelers	Total
1.	Block A	Open	70	159 (53 ECU)	123 ECU
2.		Basement	47	12 (4 ECU)	51 ECU
3.	Block B	Stilt/Ground	42	12 (4 ECU)	46 ECU
4.		Stilt/Ground	14	22 (7 ECU)	21 ECU
			173	205 (68 ECU)	241 ECU

Provision of charging facilities for electric vehicle will be provided.

Population Projection:

S. No	Particulars	Not of flats	Basis	Populations
1.	3 BHK	104	@6 person/Flat*	624
2.	2 BHK	48	@5 person/Flat*	240
3.	Visitors		@10%	86
4.	Community Hall & Health Club		@ 40sqft/person	99.5 say 100
5.	Retail Shop		2 person/shop	2
6.	Staff		@5% of Residential	43
Total				1095

Water demand calculation:-

S. No.	Particulars	Population	Fresh water	Treated water	Total water
1.	Residential	864	@80 LPCD: 69 KLD	@21 LPCD: 18 KLD	87 KLD
2.	Staff	50	@20 LPCD: 1 KLD	@15 LPCD: 1 KLD	2 KLD
3.	Visitors	86	@5 LPCD: 1KLD	@10 LPCD: 1 KLD	2 KLD
4.	Community &	102	@20 LPCD: 2 KLD	@20 LPCD: 1 KLD	3 KLD

	Retail shop			
5.	Landscaping (5lt/sq. m)		4 KLD	4 KLD
	Total		73 KLD	25 KLD
				98 KLD

WASTE WATER MANAGEMENT

- Dual flushing fixtures will be used to allow different volumes of water for solid and liquid flushing which will help in conserving the water demand for flushing significantly
- Domestic waste water to the tune of 79 KLD will be treated in sewage treatment plant based on MBBR technology with capacity of 100 KLD.
- Treated water from STP will be reused/ recycled for flushing (21 KLD) and landscaping 4 KLD). This will help in reducing the fresh water demand.
- Efforts will be done for water conservation by the use of efficient and low flow fixtures.
- Water meter will be installed to monitor the water usage at the following points:
 - ❖ Potable water consumption
 - ❖ Landscape water consumption
 - ❖ Treated waste water consumption

Characteristics of inlet and outlet of STP

Parameters	Influent	Treated effluent
pH	7.5 - 8.5	7 - 8
Suspended solids	100- 150 mg/l	<5 mg/l
BOD	200 - 250 mg/l	<5 mg/l
COD	450 - 600 mg/l	<60 mg/l
Oil & Grease	20-25 mg/l	<1 mg/l

Solid Waste Calculation

Particulars	Population	Basis	Quantity of waste generated (in kg/day)
Residential	864	@ 0.5 kg/day	432
Staff	43	@0.25 kg/day	11
Visitors	86	@0.15 kg/day	13
Landscaping	0.21 Acre	@0.2 kg/acre/day	0.042

Total			456.042 say 456 Kg/day
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Soild Waste Management:

Bins	Particulars	Treatment	Disposal
Green	Compostable waste	Collected in green colored bins and disposed through organic waste convertor & compost pit	Organic waste convertor
White	Dry/ recyclable waste:	No in-situ treatment. Collected in white colored bins and sent to solid waste collection point.	Segregated waste will be handed over to authorized waste pickers or waste collectors.
Black	Other waste/ Domestic hazardous waste	No in-situ treatment. Collected in Black colored bins and sent to solid waste collection point	

Rain Water Harvesting

S. No	Type of Structure/ Surface	Area [A] (sq. m.)	Run off Coefficient [C]	Intensity of rainfall [I] (m/hour)	Total Recharge [Q = CIA] (m ³ /hr)	Intensity of rainfall [I] (m/annum)	Total Recharge [Q= CIA] (m ³ / annum)
1.	Roof Top	1,734.15	0.9	0.06	93.64	1.1	1716.81
2.	Landscape	838.24	0.1	0.06	5.03	1.1	92.21
3.	Paved area	3015.87	0.7	0.06	126.67	1.1	2322.22
	Grand Total (1-3)	5,588.26			225.34		4131.24

Total Rain Water Flow : 225.34 m³/hr
 Considering 15 minutes of peak rainfall,
 Runoff volume : 56.33.m³/hr
 Volume of each pit : 27 m³ (3 m x 3 m x 3 m)
 Total no. of rain water harvesting pits required : Total run-off volume/volume of each pit
 : 56.33 /27
 : 2.08 say 3 nos.

Therefore, 3 Nos. rain Water Harvesting pits with PVC slotted pipe upto minimum depth of 15 m. Provision of rain water storage in the form of pond/ water body will be provided. The overflow from the storage pond will be channelized into the recharge structures.

Energy Saving Measures:

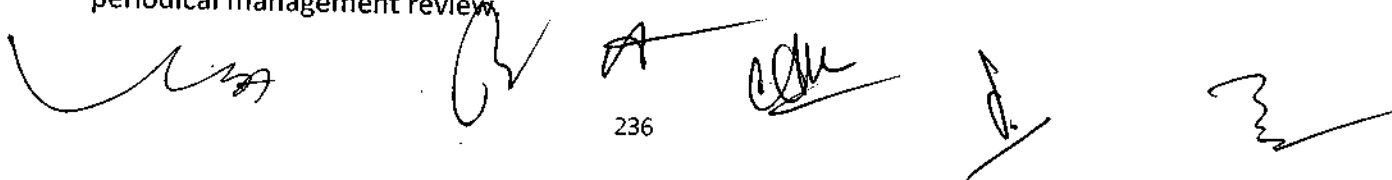
- Use of local building material to reduce pollution & transportation energy.
- All the pumps shall have minimum efficiency as per ECBC norms
- Energy efficient building envelope-use of fly ash bricks/AAC blocks for external walls Insulation to roof.
- Programmable switching arrangement for external lighting to prevent wastage of energy.
- Energy efficient lighting fixture LED lamps to be provided in common areas.
- Adequate solar panels will be installed to conserve energy.
- ECBC R norms shall be complied.

STATUTORY CLEARANCE

- Airport Authority of India issued a height clearance NOC vide its NOC ID – RANC/EAST/B/120520/514045, dated 08.01.2021, which is valid upto 06.01.2029.
- Fire fighting Department, Jharkhand has issued a Advisory vide its Letter No. – 1159/Tech./2021, dated 24.03.2021.
- The DFO, Wildlife Ranchi Vide Letter No. 414 Dated 14.05.2022 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 Forest Division vide Letter No. 2175 Dated 11.05.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Argora, Ranchi vide Letter No. 321 Dated 28.06.2022 has mentioned the plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyar Register II.
- Application for withdrawal of ground water has been submitted to CGWA vide application no. 21-4/926/JH/INF/2022 dated 16.07.2022.
- Ranchi Municipal Corporation has approved building plan vide memo no. RMC/GH/1380/W35/2020, dated 26.05.2022.

Based on the presentation made and information provided, the Committee decided that the proposal for Group Housing Project “Regalia Phase - I” of M/s Samridhi Infrastructure, Mouza : Argora, P.S. : Argora, P.S. no. : 207, Tehsil : Kanke, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.



- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

16. Group Housing Project "Regalia Phase - II " of M/s Samridhi Infrastructure, Mouza : Argora, Tehsil : Kanke, Distt. : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/282264/2022).

Name of the consultant : Gaurang Environmental Solutions Pvt. Ltd., Jaipur.

This is a new project which has been taken for appraisal on 18.07.2022.

The proposed project involves the construction of Group Housing Project "Regalia Phase-II" coming up at Plot No.-1499 (P), 1500, Khatiyon No. 34, Mouza Argora, District Ranchi, Jharkhand developed by Samridhi Infrastructure. The total plot area of the project is 5261.34 sq.m. out of which 901.86 sq.m. deduction for Balance Plot Area and the net plot area is 4359.49 sq.m. The Gross Built-up area envisaged for the project is 20993.64 sq.m. 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 :

Particulars	Details
Project address	Plot No.-1499/1500, Khatiyan No.34, Mouza Argora, District Ranchi, Jharkhand.
Type of project	Group Housing Project (Building & Construction)
Screening category	'B-2', item 8(a), (Building and Construction)
Total Plot area	10068.40 sq. m
Deduction	901.86 sq. m
Net Plot area	4359.49 sq. m
Built up Area	20993.64 sq. m
Ground Coverage	Permissible : 35 % (1841.47 sq. m) Achieved : 34.91 % (1836.54 sq. m)
FAR	Standard : 3 (15784.02 sq. m) Achieved : 2.98 (15694.60 sq. m)
Green Area	1506.85 sq. m. (28.64%)
Parking facilities	Required Parking : 141 ECU + 133 Scooters Proposed Parking : 143 ECU + 139 Scooters
Power requirement	Connected load : 1314.58 KW Maximum demand : 686.15 KW
Power backup	D.G sets of capacity : 160 kVA
Water requirement & source	Total Water requirement : 87 KLD Fresh Water : 64 KLD Recycled Water : 23 KLD Source : Ground water (Borewells: 2 nos.)
Sewage treatment & disposal	Sewage treatment facility : STP of 100 KLD Capacity : Based on MBBR Technology Waste water generated : 71 KLD
Solid waste generated	393 kg/day
No. of RWH Pits	02
Project cost	Rs.38.47 Cr
EMP Budget	Capital cost : 268.00 Lacs Recurring cost : 34.00 Lacs
Social EMP	Rs. 78.00 Lac

Geographical coordinates:

Point -1		Point -2	
Latitude	: 23°21'37.16"N	Latitude	: 23°21'34.98"N
Longitude	: 85°17'50.83"E	Longitude	: 85°17'50.52"E

Point -3		Point -4	
Latitude	: 23°21'34.18"N	Latitude	: 23°21'34.66"N
Longitude	: 85°17'49.77"E	Longitude	: 85°17'47.48"E
Point -5		Point -6	
Latitude	: 23°21'35.32"N	Latitude	: 23°21'37.35"N
Longitude	: 85°17'47.88"E	Longitude	: 85°17'49.64"E

The proposed Project involves the construction of Group Housing Project with Dwelling units (124 nos.), and other facilities like Retail Shop, Health Club, Office and Community Hall.etc.

Project facilities are as under:-

S. No	Particulars	Details									
1.	No of Blocks	2 Nos.									
2.	Floors & building height	As under:- <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Block</th> <th>Floors</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>Block A</td> <td>B+G+10 Floors + Terrace</td> <td>Upto Terrace Level : 32.5 m Upto mumty level : 37.6 m</td> </tr> <tr> <td>Block B</td> <td>B+G+10 Floors + Terrace</td> <td>Upto Terrace Level : 32.5 m Upto mumty level : 37.6 m</td> </tr> </tbody> </table>	Block	Floors	Height	Block A	B+G+10 Floors + Terrace	Upto Terrace Level : 32.5 m Upto mumty level : 37.6 m	Block B	B+G+10 Floors + Terrace	Upto Terrace Level : 32.5 m Upto mumty level : 37.6 m
Block	Floors	Height									
Block A	B+G+10 Floors + Terrace	Upto Terrace Level : 32.5 m Upto mumty level : 37.6 m									
Block B	B+G+10 Floors + Terrace	Upto Terrace Level : 32.5 m Upto mumty level : 37.6 m									
3.	Project facilities	<ul style="list-style-type: none"> ○ Dwelling units : 124 nos. (3 BHK) ○ Other facilities <ul style="list-style-type: none"> ● Community Hall : 131.96 sq. m ● Retail Shop : 1 nos. ● Health Club : 1 nos. ● Office : 1 nos. 									

Land use Breakup

S. No.	Particulars	Permissible	Proposed
1.	Total Plot area		5261.34 sq. m
2.	Deduction		901.86 sq. m
3.	Net Plot area		4359.49 sq. m

4.	Built up Area	20993.64 sq. m	
3.	FAR	3 (15784.02 sq. m)	2.98 (15694.60 sq. m)
4.	Ground coverage area	35 % (1841.47 sq. m.)	34.91 % (1836.54 sq. m)
5.	Landscape area	1506.85 sq. m. (28.64 %)	
6.	Paved area	1917.95 sq. m (36.45%)	

Built Up Area Details:

Floors wise details	Built up area (sq.m)	FAR
Basement floor	3250.71	193.72
Ground Floor	1922.96	484.69
First Floor	1503.76	1452.64
Second	1590.69	1507.06
Third	1590.69	1507.06
Fourth	1590.69	1507.06
Fifth	1590.69	1507.06
Sixth Floor	1590.69	1507.06
Seventh	1590.69	1507.06
Eighth Floor	1590.69	1507.06
Ninth Floor	1590.69	1507.06
Tenth Floor	1590.69	1507.06
Total	20993.64 sq.m	15694.59 sq.m

Parking Details:

Particulars	Details	Basis	Required cars	Required Two wheelers
Residential	120 units	1ECU/unit for 0-140 sq. m	120 cars	121 nos.
	1unit	2ECU per unit for > 140.0	2 cars	
Commercial	204.35 sq. m	@1ECU/50 sq. m	4 car	9 nos.
Health Club	68.31 sq. m	@1ECU/50 sq. m	1 car	3 nos.
Community hall			1 car	
Visitors		As per approved maps	13 cars	-
Required ECU			141 cars	133 nos.

Required Parking : 141 Cars + 133 Scooters
 Provided Parking : 143 Cars + 139 Scooters

Provisions Of Parking

S. No.	Particulars	Cars	Two-Wheelers
1.	Open	14	-
2.	Basement	76	32 (10.67 ECU)
3.	Ground	53	107 (35.67 ECU)
	Total	143	139 (46.33 ECU)

Provision of charging facilities for electric vehicle will be provided.

Population Projection:

S. No	Particulars	Not of flats	Basis	Populations
1.	3 BHK	124	@6 person/Flat*	744
2.	Visitors		@10%	74
3.	Community Hall & Health Club		@ 40sqft/person	117
4.	Retail Shop		2 person/shop	2
5.	Staff		@5% of Residential	37
Total				974

Water demand calculation:-

S. No.	Particulars	Population	Fresh water	Treated water	Total water
1.	Residential	744	@80 LPCD: 60 KLD	@21 LPCD: 16 KLD	76 KLD
2.	Staff	37	@20 LPCD: 1 KLD	@15 LPCD: 1 KLD	2 KLD
3.	Visitors	74	@5 LPCD: 1KLD	@10 LPCD:1 KLD	2 KLD
4.	Community & Retail shop	119	@20 LPCD: 2 KLD	@20 LPCD: 2 KLD	4 KLD
5.	Landscaping (5lt/sq. m)			8 KLD	8 KLD
Total			64 KLD	28 KLD	92 KLD

WATER & WASTE WATER MANAGEMENT

- Dual flushing fixtures will be used to allow different volumes of water for solid and liquid flushing which will help in conserving the water demand for flushing significantly

- Domestic waste water to the tune of 71 KLD will be treated in sewage treatment plant based on MBBR technology with capacity of 100 KLD.
- Treated water from STP will be reused/ recycled for flushing (20 KLD) and landscaping 8 KLD). This will help in reducing the fresh water demand.
- Efforts will be done for water conservation by the use of efficient and low flow fixtures.
- Water meter will be installed to monitor the water usage at the following points:
 - ❖ Potable water consumption
 - ❖ Landscape water consumption
 - ❖ Treated waste water consumption

Characteristics of inlet and outlet of STP

Parameters	Influent	Treated effluent
pH	7.5 - 8.5	7 - 8
Suspended solids	100- 150 mg/l	<5 mg/l
BOD	200 - 250 mg/l	<5 mg/l
COD	450 - 600 mg/l	<60 mg/l
Oil & Grease	20-25 mg/l	<1 mg/l

Solid Waste Calculation

Particulars	Population	Basis	Quantity of waste generated (in kg/day)
Residential	744	@ 0.5 kg/day	372
Staff	37	@0.25 kg/day	9.25
Visitors	74	@0.15 kg/day	11.1
Landscaping	0.372	@0.2 kg/acre/day	0.07
Total			392.42 say 393 kg/day

Solid Waste Management:

Bins	Particulars	Treatment	Disposal
Green	Compostable waste	Collected in green colored bins and disposed through organic waste convertor & compost pit	Organic waste convertor
White	Dry/ recyclable waste:	No in-situ treatment. Collected in white colored bins and sent to solid waste collection point.	Segregated waste will be handed over to authorized waste pickers or waste collectors.
Black	Other waste/ Domestic	No in-situ treatment. Collected in Black colored bins	

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	hazardous waste	and sent to solid waste collection point	
Yellow /Paper bags	Biomedical waste	Biomedical waste generated from the project will be collected in different bins labeled as biomedical waste, in view of COVID 19 Pandemic.	Biomedical waste collected in the yellow bag will be disposed off to ULBs after 72 hours storage.

RAIN WATER HARVESTING

S. No	Type of Structure/ Surface	Area [A] (sq. m.)	Run off Coefficient [C]	Intensity of rainfall (m/hour) [I]	Total Recharge [Q = CIA] (m ³ /hr)	Intensity of rainfall [I] (m/annum)	Total Recharge [Q= CIA] (m ³ / annum)
1.	Roof Top	1836.54	0.9	0.06	99.17	1.1	1818.17
2.	Landscape	1506.85	0.1	0.06	9.0411	1.1	165.75
3.	Paved area	1917.95	0.7	0.06	80.55	1.1	1476.82
	Grand Total (1-3)	5261.34			188.76		3460.74

Total Rain Water Flow : 188.76 m³/hr

Considering 15 minutes retention time,

Runoff volume : 47.19 m³

Volume of each pit : 27 m³ (3 m x 3 m x 3 m)

Total no. of rain water harvesting pits required : Total run-off volume/volume of each pit

: 47.19 /27

: 1.74 Say 02 nos.

Therefore, 2 Nos. rain Water Harvesting pit with depth of 15 m will be provided.

Provision of rain water storage in the form of pond/water body will be provided. The overflow from the storage pond will be channelized into the recharge structures.

Energy Saving Measures:

- Use of local building material to reduce pollution & transportation energy.
- All the pumps shall have minimum efficiency as per ECBC norms
- Energy efficient building envelope-use of fly ash bricks/AAC blocks for external walls Insulation to roof.
- Programmable switching arrangement for external lighting to prevent wastage of energy.
- Energy efficient lighting fixture LED lamps to be provided in common areas.

- Adequate solar panels will be installed to conserve energy.
- ECBC R norms shall be complied.

STATUTORY CLEARANCE

- Airport Authority of India issued a height clearance NOC vide its NOC ID – RANC/EAST/B/120520/514048, dated 08.01.2021, which is valid upto 06.01.2029.
- Fire fighting Department, Jharkhand has issued a Advisory vide its Letter No. – 1160/Tech./2021, dated 24.03.2021.
- The DFO, Wildlife Ranchi Vide Letter No. 415 Dated 14.05.2022 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 Forest Division vide Letter No. 2176 Dated 11.05.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Argora, Ranchi vide Letter No. 322 Dated 28.06.2022 has mentioned the plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyani & Register II.
- Application for withdrawal of ground water has been submitted to CGWA vide application no. 21-4/927/JH/INF/2022 dated 16.07.2022.
- Ranchi Municipal Corporation has approved building plan vide memo no. RMC/GH/1381/W35/2020, dated 26.05.2022.

Based on the presentation made and information provided, the Committee decided that the proposal for Group Housing Project “Regalia Phase - II” of M/s Samridhi Infrastructure, Mouza : Argora, Tehsil : Kanke, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.

- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

17. Proposed developmental project of M/s Padmabati Devi Multi Speciality Hospital Pvt. Ltd.,
Village : Hathiadih & Bhatia, Tehsil : Gamharia, Distt. : Saraikela-Kharsawan, Jharkhand.

(Proposal No : SIA/JH/MIS/277745/2022).

Project Category: B2 – Application for Environment Clearanc

Name of the consultant : Envirotech East Private Limited, Kolkata

This is a new project which has been taken for appraisal on 18.07.2022.

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.

Padmabati Devi Multi Speciality Hospital Pvt. Ltd. proposes to develop Padmabati Devi Hospital which has been planned as a 1010 bedded Multi-Specialty Hospital of configuration (LG+UG+9), having total built-up area 90180 sqm., to be established at Survey Plot No.: 301 P, Plot No. IT-3, IT-5, Adityapur Industrial Area, near phase 7, Village-Hathiadih & Bhatia, Khata No. - (81 & 60) Thana No- (60 & 127), Thana - Saraikela, Dist – Saraikela Kharsawan, Jharkhand.

Salient features of the project :

Block details	Hospital Block : Lower Ground Floor + Upper Ground Floor +9 Floors (LG+UG+9)
Lower Ground Floor Area	11075 SQ.M
Upper Ground Floor Area	8225 SQ.M
First Floor Area	7750 SQ.M
Second Floor Area	8515 SQ.M
Third Floor Area	8515 SQ.M

Fourth Floor Area	7750 SQ.M
Fifth Floor Area	7670 SQ.M
Sixth Floor Area	7670 SQ.M
Seventh Floor Area	7670 SQ.M
Eighth Floor Area	7670 SQ.M
Ninth Floor Area	7670 SQ.M
Built Up Area	90180 sqm
Land Area	24301.4 sqm (6.005 acres)
Latitude	22°48'01.23"N
Longitude	86°08'17.05"E
Nos. of beds	1010
Project Cost	750 Crores
Expected Population	3285 persons
Total Water Requirement	700 KLD
Freshwater Requirement	535 KLD
Wastewater generated (to STP)	630 KLD
Wastewater after treatment (from STP)	567 KLD
Treated water Reused	567 KLD
Treated water discharged	00 KLD
Solid waste generated	1971 kg/day
Ground Coverage Area	9895.513 sqm (40.72% of land area)
Paved Area	6026.75sqm (24.80% of land area)
Open Parking Area	2054.01sqm (8.45% of land area)
Service Area	572.798 sqm (2.36% of land area)
Open Area	502.4sqm (2.07% of land area)
Green Belt Area	5249.95sqm (21.61% of land area)
Plantation Proposed	2000
Parking Provided	412 nos. for cars, 5 nos. for ambulances
RWH Pits	14
Height of the building	45 Meters

Power Requirements, Source and Backup Arrangement :

Power requirement	4024 kVA
Sources of power and supply capacity	JUSCO
Backup power supply arrangement	DG sets - 1250 kVA x 3 nos. + 600 kVA x 1 nos. will be installed for backup power. DG set will be installed in sound attenuated enclosure.
Stack Height of the DG Sets	The emission from DG sets will be discharged through stack of height 48mtr.

Fuel Requirement	1250 kVA 250 litre/hr and 600 KVA 120liter/hr.
Solar Street lights	Total terrace area for all phases is 87950sq.ft. 1/3rd of area is 29317 sq.ft. The proposed capacity for solar power is 293 KW for all the phases.

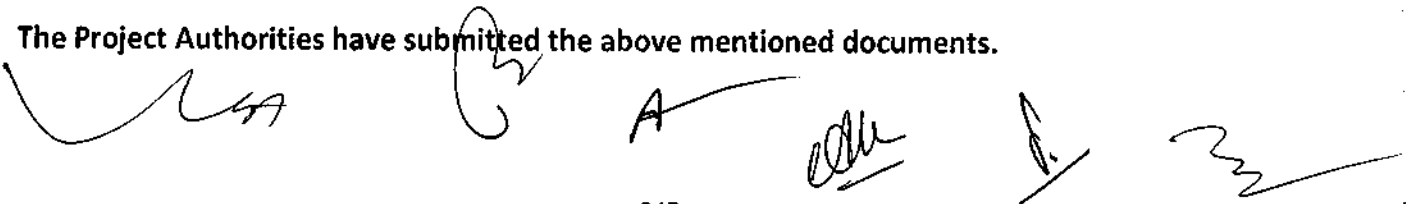
STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Seraikela Forest Division vide letter no. 757, dated 09.04.2022 certified that the applied area is notified forest land, which has been transferred to AIADA, Adityapur for non – forestry work vide notification no. Forest-47/2006-1910 वॉपॉ, dated 01.07.2009 of Department of Forest & Environment, Govt. of Jharkhand.
2	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 494, dated 22.04.2022 certified that the proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Gamharia vide letter no. 270, dated 02.04.2022 has certified that proposed project site belongs to forest land, for which Department of Forest & Environment, Govt. of Jharkhand has been transferred the said land to AIADA, Adityapur for non – forestry work vide notification no. Forest-47/2006-1910 वॉपॉ, dated 01.07.2009. CO has also informed that proposed project site has been transferred to M/s Padmabati Devi Multi Speciality Hospital Pvt. Ltd. vide lease deed no. 1674, dated 13.07.2020 for the period of 30 years.
4	AAI NOC	:	Airport Authority of India issued NOC vide letter no. JAMS/EAST /B/ 020822/ 653174 dated 03.03.2022.
5	Fire Department	:	A advisory from Fire Department, Jharkhand, Ranchi vide memo no. 1631/tech/2021, dated 10.04.2022.

During the presentation the following documents were sought :

- i. Provide the revised table for EMP & CER
- ii. Justification for ETP capacity.
- iii. Submit plan for SBR technology for the STP in place of MBBR technology.
- iv. Calculation for drainage and rain water harvesting runoff estimation.
- v. Undertaking for BMW disposal and route map.
- vi. Provide the revised ambulance parking number.
- vii. Provide floor wise number of beds and area.
- viii. Revised water balance diagram.

The Project Authorities have submitted the above mentioned documents.



Based on the presentation made and information provided, the Committee decided that the proposal for Proposed developmental project of M/s Padmabati Devi Multi Speciality Hospital Pvt. Ltd., Village : Hathiadih & Bhatia, Tehsil : Gamharia, Distt. : Saraikela-Kharsawan, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Take all necessary steps to ensure that bio-medical waste is handled without any adverse effect to human health and the environment and in accordance with BMW rules.
- II. Make a provision within the premises for a safe, ventilated and secured location for storage of segregated biomedical waste in colored bags or containers in the manner as specified in Schedule I, BMW rules to ensure that there shall be no secondary handling, pilferage of recyclables or in advertent scattering or spillage by animals and the bio-medical waste from such place or premises shall be directly transported in the manner as prescribed in these rules to the common bio-medical waste treatment facility or for the appropriate treatment and disposal, as the case may be, in the manner as prescribed in Schedule I.
- III. Pre-treat the laboratory waste, micro biological waste, blood samples and blood bags through disinfection or sterilization on-site in the manner as prescribed by the World Health Organisation (WHO) or National AIDs Control Organisation (NACO) guidelines and then sent to the common bio-medical waste treatment facility for final disposal.
- IV. Phase out use of chlorinated plastic bags, gloves and blood bags within two years from the date of notification of these rules.
- V. Not to give treated bio-medical waste with municipal solid waste.
- VI. Dispose of solid waste other than bio-medical waste in accordance with the provisions of respective waste management rules made under the relevant laws and amended from time to time.
- VII. Provide training to all its health care workers and others, involved in handling of bio medical waste at the time of induction and there after atleast once every year and the details of training programmes conducted, number of personnel trained and number of personnel not under gone any training shall be provided in the Annual Report.
- VIII. Immunize all its health care workers and others, involved in handling of bio-medical waste for protection against diseases including Hepatitis B and Tetanus that are likely to be transmitted by handling of bio-medical waste, in the manner as prescribed in the National Immunization Policy or the guidelines of the Ministry of Health and Family Welfare issued from time to time
- IX. Establish a Bar- Code System for bags or containers containing bio-medical waste to be sent out of the premises or place for any purpose within one year from the date of the notification of these rules.
- X. Ensure segregation of liquid chemical waste at source and ensure pre-treatment or neutralization prior to mixing with other effluent generated from health care facilities.

- XI. Ensure treatment and disposal of liquid waste in accordance with the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974)
- XII. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- XIII. All raw material to be stored only under covered shed.
- XIV. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- XV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- XVI. Trees should be developed & maintained not less than 15% of project area.
- XVII. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- XVIII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- XIX. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- XX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- XXI. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

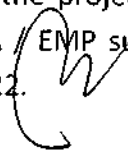
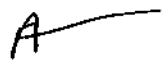
**18. Modification cum Expansion of existing Re-Rolling Mill of M/s Saluja Steel & Power (P) Ltd.,
Mouza : Mohanpur, P.S. : Mahtoahdih, Dist. : Giridih, Jharkhand.**

(Proposal No. : SIA/JH/IND/66215 /2018).

Name of the consultant : Pollution & Ecology Control Services

This is a modification cum expansion project which has been taken for appraisal on 18.07.2022.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 63rd meeting held on 05-06.11.2018 and SEIAA, Jharkhand has approved the ToRs in 64th meeting held on 10th & 11th December, 2018. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 308, dated 13.12.2018. The final EIA / EMP submitted by PP to SEIAA on 10.02.2022 and which was forwarded to SEAC on 15.02.2022.




Salient features:

1.	Name of the project	Modification-cum-Expansion of existing Re-Rolling AT Mouza Mohanpur, PS-Mahtodih, District Giridih(JHK)
2.	Name of the promoters	M/s Saluja Steel & Power (P) Ltd
3.	Area of Plant	5.68 acres
4.	Khata No. & Plot No.	Khata no. : 34, 1, 40, 73, 38, 65, 45, 5, 48, 29, 43, 61 & 109 Plot no. : 586, 588, 52, 55, 29, 30, 53, 47, 51, 578, 37, 40, 593, 39, 38, 50, 595, 594 & 603
5.	Latitude/longitude	<ul style="list-style-type: none">• Lat: 24° 08' 37.98" N Long: 86° 20' 21.88" E• Lat: 24° 08' 31.83" N Long: 86° 20' 39.46" E• Lat: 24° 08' 23.40" N Long: 86° 20' 37.62" E• Lat: 24° 08' 28.09" N Long: 86° 20' 27.43" E
6.	Proposed capacity	TMT Bars –2,40,000 TPA
7.	Existing Capacity	TMT Bars – 90 TPD (27,000 TPA)
8.	Cost of Project	18 Crs
9.	Plant & Equipment	<ul style="list-style-type: none">• Re-Rolling Mill(TMT Mill) – 1x90 TPD (27,000 tons per annum operating)-existing• Induction Furnace – 4x20 t(4 cell standby) New• Matching Concast facilities for Billets manufacturing- Two Line-New Cap-2,40,000t per annum billets-new• Re-Rolling Mill(TMT Mill): 1x400 TPD-modification in existing TMT mill and - modification 1x400 tpd new Re-Rolling mill Capacity after expansion 240,000 tons per annum MS Bar-new
10.	Fuel used	Electricity Power supplied by DVC
11.	Water Sources	Ground water Bore well
12.	Power requirement	The power requirement for the plant has been envisaged to be made available from DVC is near about 19 MVA for both phases of plant.
12.	Water required per day	30 KLD tentative (exact figure shall be delineated during EIA finalization)
13.	Emission from Stack	Limited to 100 mg/Nm ³
14.	Slag generation	37,540 TPA
15.	No of working days in a	300 days

	year	
16.	Chimney Heights	30 m de-dusting stack
17.	Nearest Railway station	Giridih – 6 kms

Manufacturing Process : Project shall be implemented in two phases: phase-1(New SMS-I And modification in existing TMT mill with matching production and Phase-II all new SMS-II and New TMT mill as follows:

Proposed Sms With Concast (Phase – I)			
Description Of Proposed Steel Melting Shop With Ccm.			
Sms With Ccm Basic Parameters At A Glance			
Units / Particulars	Installed Capacity	Working Days	Annual Production /
Induction Furnace	2x20 T = 400TPD	330	132,000 MT
Water Requirement	Make Up Water	330	2m ³ /hr & 32m ³ /day
Induction Furnace	Raw Material	Mix Ratio	Quantity (Tons / Annum)
	Sponge Iron	0.79	104,280.00
	Steel Scrap	0.20	26,400.00
	Pig Iron	0.12	15,840.00
	FeMn, FeSi, Al etc	0.015	1,980.00
	TOTAL	1.125	148,500.00

TABLE INDUCTION FURNACE CAPACITY

Production of cast billets, tons/year	1,30,680
Equivalent liquid steel, tone	1,32,000
No. of operating days	330
Production of liquid steel/days, tone	400
Tap-to-tap cycle time/min	144
Number of heat/day	10
Furnace capacity, tons	2 x 20T = 40T

TABLE SELECTION OF BILLET CASTER

Heat size, liquid steel, tons	48	48
Size of the billet mm x mm	100 x100	130 x 130

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Length of cast billet / heat, m	460	272
Average casting speed, m/min	2.5	2.0
Casting time in one strand, min / maximum I.F. tap cycle time, min	90/184	90/136
No. of strand required	2	1.51
Number of strand provided	2	2

The salient features of the casting machine:

TABLE BILLET CASTER PARTICULARS	
Machine type	Bow type with low head
Steel grades proposed to cast	Carbon and low alloy steels
Nominal heat size, tons	40
Type of ladle	Bottom pour fitted with slide gate
Base casting radius, m	Preferably 5m
No. of strands	2
Design range of cast billets	100-130 mm X mm
Billet cutting device	Manual oxy-fuel torch
Cut length, m	3-6
Casting speed, m/min	2.0-3.0
Billet discharge	Via horizontal roller table to cooling bed

PRODUCTION OF MS BILLET IN CCM :

S. No	Particulars	Size	MT (Qty)
1.	MS Billet	100 x100	75,000.00
2.	MS Billet	130 x130	55,680.00
	TOTAL		130,680.00

Rolling Mill (Augmenting the existing capacity)

Description of Rolling Mill Unit :

Rolling Mill Basic Parameters at a Glance :

Units / Particulars	Installed Capacity	Working Days	Annual Production /
Rolling Mill Unit	400 TPD	300	120,000 MT / Annum
Water Requirement	Make Up Water	300	7m ³ /day
Rolling Mill Unit	Raw Material	Size (mm)	Quantity (Tons /

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			Annum)
	M.S. Billet	100 x 100	60,000
		130 x 130	60,000
	TOTAL		120,000.00

STATUTORY CLEARANCES :

1	CO	:	The CO, Giridih vide memo no. 2621, dated 10.09.2018 & memo no. 2813, dated 04.10.2018 have mentioned the plot no. of the project is not recorded as "Jungle Jhari" in Khatiyon.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1966 , dated 14.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	DFO Forest Distance	:	DFO, Giridih East Division vide letter no. 1479, dated 25.06.2018 certified that the distance of forest is 1649.25 m from proposed project site.

Earlier this proposal was presented in SEAC on 10-14.05.2022 in which requisite documents were sought are under –

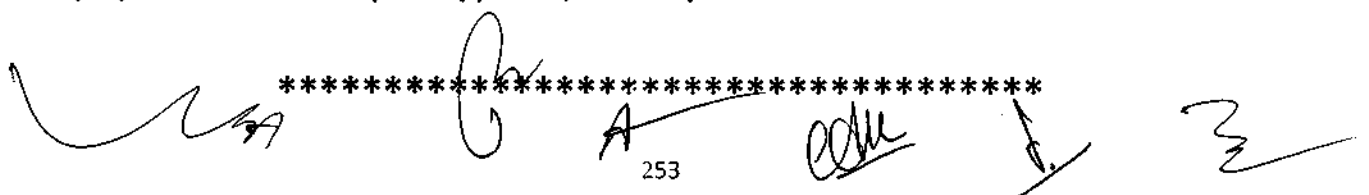
- i. Certified copy of CTO compliance from JSPCB is to be provided.
- ii. Receipt copy of application for withdrawal of ground water from competent authority for expansion project.

The Project Authorities have submitted the above mentioned documents.

During the presentation the following documents were sought :

- i. Revised plant layout showing 33% green belt.
- ii. Undertaking in the form of affidavit that the slag generated shall not be stored within the premises and that will be sold to its prospective buyers. The names of buyers to be provided.
- iii. Socio economic study carried out will be submitted duly signed by the SE expert.
- iv. Disaster management plan to be submitted duly signed by the expert.
- v. Report of risk and hazards study carried out will be submitted duly signed by RH expert.
- vi. All the lab reports to be submitted in original on the letter pad of the laboratory with NABL logo.
- vii. The NABL scope of the laboratory to be submitted.
- viii. Undertaking that the existing Re-heating furnace shall be removed after the proposed expansion.
- ix. Comprehensive list of industries within the study area to be provided.

The project will be taken up for appraisal, on receipt of the above documents.



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Day 5 : July 19th , 2022 [Tuesday]

Consideration of Proposals

1. Integrated Municipal Solid Waste Management Facility for Bundu Nagar Panchayat, Village : Bundu, Tehsil : Bundu, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/58082/2020).

Name of the consultant : Wolkem India Ltd., Udaipur.

This is a new project which was listed for consideration on 19.07.2022.

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 Form - I & PFR the proposed project falls under item 7 (i) Common Municipal Solid Waste Management Facilities as per EIA Notification, 2006.

Salient Features of the project :

S.No	Information	Details
1.	Project Name & Address	Municipal Solid Waste Management Scheme for Bundu Nagar Panchayat at Village : Bundu, Thana No. : 28, Tehsil : Bundu, District : Ranchi, Jharkhand.
2.	Khata no. & Plot no.	Khata no. : 1143, Plot no. : 5532, 5543, 5538, 5539
3.	Facility Area	Total Area – 3.57 Acre Capacity of Processing Facility : 15 TPD Sanitary Landfill Capacity (20 Years) – 4851 Sqm
4.	Name of the Client	Bundu Nagar Panchayat
5.	Water Requirement and its Sources	Total Water Requirement = 52.16 KLD Fresh Water Requirement = 10 KLD Recycled Treated Waste Water = 42.16 KLD Source :- PHED Supply
6.	Power Supply and its source	100 KVA and source from Jharkhand State Electricity Board, JBVNL
7.	Project Cost	614.30 Lacs
8.	EMP cost	Capital cost : 41 Lakh, Recurring cost : 9.5 Lakh
9.	Nearest Railway Station	Ranchi Railway Station 35.7 Km NW.
10.	Nearest SH/NH	NH-33 National Highway, 0.70 Km in SW direction.
11.	Nearest Airport	Birsa Munda Airport, Ranchi 34.60 Km in NW

	direction.
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Latitude & Longitude of the project :

S No	Latitude	Longitude
1	23° 8'59.16"N	85°36'29.91"E
2	23° 8'58.48"N	85°36'31.65"E
3	23° 8'57.35"N	85°36'31.52"E
4	23° 8'57.26"N	85°36'31.75"E
5	23° 8'55.95"N	85°36'31.64"E
6	23° 8'55.31"N	85°36'31.37"E
7	23° 8'55.47"N	85°36'30.28"E
8	23° 8'55.35"N	85°36'30.16"E
9	23° 8'55.48"N	85°36'29.76"E
10	23° 8'55.15"N	85°36'29.66"E
11	23° 8'55.01"N	85°36'29.97"E
12	23° 8'53.77"N	85°36'29.92"E
13	23° 8'53.79"N	85°36'29.63"E
14	23° 8'53.54"N	85°36'29.52"E
15	23° 8'53.58"N	85°36'29.19"E
16	23° 8'53.07"N	85°36'29.01"E
17	23° 8'53.03"N	85°36'28.76"E
18	23° 8'52.76"N	85°36'28.73"E
19	23° 8'52.10"N	85°36'28.35"E
20	23° 8'52.18"N	85°36'27.69"E
21	23° 8'52.05"N	85°36'27.53"E
22	23° 8'52.17"N	85°36'27.31"E
23	23° 8'52.35"N	85°36'27.28"E
24	23° 8'52.46"N	85°36'26.96"E
25	23° 8'54.35"N	85°36'27.50"E
26	23° 8'54.44"N	85°36'27.10"E
27	23° 8'56.09"N	85°36'28.00"E
28	23° 8'56.29"N	85°36'28.39"E
29	23° 8'56.69"N	85°36'28.50"E
30	23° 8'56.63"N	85°36'28.86"E

Statutory Clearances :

1	CO	:	The CO, Bundu, (Ranchi) vide letter no. 17, dated 09.01.2020 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
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2	DFO Wild Life	:	DFO, Wildlife Ranchi vide memo no. 55, dated 15.01.2021 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, Khunti Division vide letter no. 2875, Dated 25.10.2019 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.

Earlier this proposal was presented in SEAC on 18-27.02.2022 in which requisite documents were sought are under –

- I. Contour Plan of project site not provided.
- II. Site specific photographs.
- III. Soil map & soil characteristic data not provided.
- IV. Seismic map of project site not provided.
- V. Site selection criteria to follow CPHEEO manual and certified by competent authority.
- VI. Overlay map of all site selection criteria.
- VII. The quality & quantity of the sludge from ETP and its usage / disposal to be provided.
- VIII. Calculation of the life of landfill site to be provided.

The Project Authorities have submitted the above mentioned 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 15, 16, 17, 18, 19, 20, 21 & 22.07.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure VI alongwith the following specific conditions :

- I. Input & output analysis of heavy & toxic metals (including mercury) alongwith proposal for handling of the toxic components to be included in the EIA/EMP report.
- II. The operator of the facility shall design and set up the facility as per the technical guidelines issued by the Central Pollution Control Board in this regard from time to time and the manual on solid waste management prepared by the Ministry of Urban Development, a plan in this regard to be included in the EIA/EMP report.
- III. The operator of the facility shall be responsible for the safe and environmentally sound operations of the solid waste processing and or treatment facilities as per the guidelines issued by the Central Pollution Control Board from time to time and the Manual on Municipal Solid Waste Management published by the Ministry of Urban Development and updated from time to time, a plan in this regard to be included in the EIA/EMP report.

2. Hutukdag Stone Mine of Md. Ali Khan, Shri Subash Chandra Boss & Shri Rajnikant Das (Partners), Mouza : Hutukdag, Thana : Chattarpur, Thana no. : 325, Distt. : Palamu, Jharkhand (1.38 Ha).

(Proposal No. : SIA/JH/MIN/276716 /2022).

Project Category: B2 – Application for Stone Quarry

B2 – Application for Environment Clearance

B2 - application for Environment Clearance

EC Application for: Boulder Stone: 14,778 Cu.M. Per Annum / 41,378 Ton Per Annum

DG Set: Required

Mobile Crusher: Proposed

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

This is a new project which has been taken for appraisal on 19.07.2022.

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Hutukdag Stone Mine with Crusher
2	Partners:	: Shri Md Ali Khan, Shri Subash Chandra Boss and Shri Rajni Kant Das
3	Lease Address	: R/O: Village: Mandeya Masihani, P.S + P.O: Chhatarpur District: Palamu, Jharkhand – 822113
4	Lease Area	: Ha:1.38 Acres:3.40 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: 39.00 Lakhs
7	EMP Budget	: Capital: 6.24Lakhs Recurring: 3.0 Lakh / year
8	CSR / CER Budget	: Rs. 2.15Lakhs
9	New or Expansion	: New Case
10	Mineable Reserves	: Cu.m.:1,48,788 Cu. M. Tonnes:4,16,607Tonnes
11	Mine Life	: 10.1 Year
12	Man power	: 17
13	Water Requirement	: Total water requirement is about 6.51 KLD= 0.51 KLD (Drinking Water & Domestic Uses, 17 persons @30LPCD) + 3.0 KLD (Water sprinkling) + 3.0 KLD (plantation)
14	Water Source	: The drinking water will be available from nearby village by tractor tank to labors at the site.
15	DG Set / power	: Required
16	Crusher	: Proposed (50-100 T/Hr)
17	Nearest Water Body	: No water body is present within study area
18	Nearest Habitation	: Hutukdag Village: 1.03 KM towards ESE direction
19	Nearest Rail Station	: Rajhura Train Station 27.01KMTowards SW direction
20	Nearest Air Port	: Gaya International Airport 87.74kmtowards NE direction
21	Nearest Forest	: NIL
22	Road & Highways	: NH 139 (Aurangabad-Rajhara-Daltonganj Road)at distance 7.45KMTowards NW direction

CO-ORDINATES

1	Latitude	:	From 24°18'5.00"N	To 24°18'5.00"N
2	Longitude	:	From 84°13'41.00"E	To 84°13'42.00"E

LAND DETAILS

Khata No.	Plot No.
25	184

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Palamau, Medininagar vide letter no. 1769/M, dated 24.12.2020.
2	CO	:	The CO, Chhatarpur (Palamau) vide letter no. 557, dated 13.08.2018 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" .
3	DMO	:	DMO, Palamau, Medininagar vide memo no. 1840, dated 23.12.2021 certified that no other other mining area exists within 500 m radius from proposed project site and total area is less than 5 ha.
4	DFO Wild Life	:	Deputy Director, Palamau Tiger Project, North Division, Medininagar vide letter no. 113, dated 03.02.2021 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, Medininagar Division vide letter no. 4275, dated 12.09.2018 certified that the distance of notified forest is 270 m from proposed project site.
6	DSR	:	The DC – cum – District Magistrate, Palamau, Medininagar vide letter no. 465/M, dated 17.06.2021 has informed that this project is part of District Survey Report (DSR) of Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 09.08.2018
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag vide Memo No. 89/G, dated 16.03.2022

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Working Details

1	Mining Method	:	Opencast & Mechanized.
2	Quarry Area	:	0.66ha
3	Waste Generation	:	Five years-118 Cu.M
4	Stripping Ratio	:	1:0.01
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	319m In AMSL
8	Ground Level Elevation	:	317m In AMSL
9	Ultimate Working Depth	:	18m(317 Amsl to 299 Amsl)
10	Water Table	:	290 Amsl (26bgl)
11	Topography of Mine	:	Uneven land
12	Explosive Requirement	:	12Kg/Day
13	Diesel/Fuel requirement	:	500 KL/year

Production Details

Year	Generation of waste/O.B in Ton	Production of stone in (Cum)	Production of stone in (Ton)
1 st	118	14406	40337
2 nd	00	14356	40197
3 rd	00	14490	40572
4 th	00	14732	41250
5 th	00	14778	41378
Total	118	72762	203734

Land Use

LAND USE PATTERN			
Category	Existing	First to Fifth years	After life of mine
	Area in Hectares	Area in Hectares	Area in Hectares
Quarry	0.00	0.35	0.66 Ha will be left as water reservoir
Haul Road	0.00	0.01	0.00
Proposed Crusher	0.00	0.05	Removed From the area
Green belt in Safety Barrier	0.00	0.73	0.73
Dump with Parapet wall & Garland drain	0.00	0.001	Nil(Waste dump to be removed and backfilled)
Total area in use	0.00	1.141	1.38
Balance unused area	1.38	0.24	0.00
Balanced used area	0.00	0.00	0.00
Total existing Area	1.38	1.38	1.38

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.73 Ha	1168 trees @ 1500 trees per ha
2	Other Reclaimed Area	:	NIL	NIL
3	Haul /Approach Road	:	100 m	80 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 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- There is waste to be generated 224 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 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, dischargefrom 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 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 pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask etc shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

Undertaking submitted affirming:

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

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 Hutukdag Stone Mine of Md. Ali Khan, Shri Subash Chandra Boss & Shri Rajnikant Das (Partners), Mouza : Hutukdag, Thana : Chattarpur, Thana no. : 325, Distt. : Palamu, Jharkhand (1.38 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

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3. Sosomuli Stone Deposit of M/s Leading Construction, Village : Sosomuli, Tehsil : Rajnagar, Distt. : Saraikela-Kharsawan, Jharkhand (2.16 Ha).

(Proposal No. : SIA/JH /MIN /269291 /2022).

Project Category : B2 – Application for Environment Clearance
 EC Application for : Total Excavation - Stone – 372 TPD / 111574 TPA
 Gritty soil 6080 m3 in life of mine.

Name of the consultant: Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar

This is a new project which has been taken for appraisal on 19.07.2022

Project and Location Details :

Sl.	Parameter	Details	
1	Project Name	: Sosomuli Stone Deposit	
2	Lessee:	: M/s Leading Construction, Proprietor- Shri Jai Prakash Singh	
3	Lease Address	: At: Village - Sosomuli, P.S. – Govindpur, District – Saraikela-Kharsawan, Jharkhand.	
4	Lease Area	: Ha: 2.16	Acres: 5.33
5	Type of Land	: Non-Forest – Rayati Land	
6	Project Cost	: Rs. 103.42 Lakhs	
7	EMP Budget	: Capital: Rs. 8.00 Lakhs	Recurring: Rs. 4.75 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	: Rs. 2.06 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: 159380 cum.	Tonnes: 446264
11	Mine Life	: 4 years only	
12	Manpower	: 34 Person	
13	Water Requirement	: 6.228 KLD (Drinking: 0.88KLD, Dust Suppression & Plantation: 5.34 KLD,)	
14	Water Source	: Bamni Nala 4.90 Km. W	
15	DG Set / power	: Not Applicable	
16	Crusher	: Not Applicable	
17	Nearest Water Body	: Bamni Nala at 4.90 Km. W Spring at 0.92 Km. NE	
18	Nearest Habitation	: Padnamsahi 0.66 km S direction from the mine site.	
19	Nearest Rail Station	: Haludpukur Railway Station 9.74 km from the mine site.	
20	Nearest Airport	: Birsa Munda Airport, Ranchi 105 km from the mine site.	
21	Nearest Forest	: Protected Forest	4.41 Km NW
		: Protected Forest	2.12 Km N
		: Protected Forest	4.93 Km E

			Kudada RF	1.79 Km NE
			Nandeep PF	7.29 Km NE
			Morchagora PF	8.96 Km E
			Dholadih PF	7.93 Km ESE
			Tarna Dungri PF	9.08 Km NW
22	Road & Highways	:	SH 06 at 16.77 km SE direction from the mine site.	

CO-ORDINATES

1	Latitude	:	From 22°41' 14.81"N	To 22°41' 22.79"N
2	Longitude	:	From 89° 06' 53.53"E	To 86° 07' 00.24"E

LAND DETAILS

Khata No.	Plot No.
76	29 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Saraikela-Kharsawan vide letter no. 333/M, dated 17.06.2020.
2	CO	:	The CO, Rajnagar vide letter no. 35, dated 14.01.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in Khatiyani.
3	DMO	:	DMO, Saraikela-Kharsawan vide letter no. 05/M, dated 05.01.2021 certified that 01 other mining area (5.20 acre) exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 772, dated 20.08.2020 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, Saraikela Forest Division vide letter no. 1136, dated 07.06.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC, Saraikela-Kharsawan vide letter no. 33/M, dated 07.01.2022 has informed that this project is part of District Survey Report (DSR) of Saraikela-Kharsawan district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 30.09.2018

8	Mine Plan Approval	:	Additional Director Mines, Ranchi vide Memo No. 108/M, dated 06.07.2020
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Working Details :

1	Mining Method	:	Opencast Semi Mechanized Mining
2	Quarry Area	:	1.42 ha (Plan Period) Life of Mine – 1.42 ha
3	Waste Generation	:	6080 cum (tons in plan period) Life of Mine – 6080 cum (tons in plan period)
4	Stripping Ratio	:	1:0.016 (T:m3)
5	Working Days	:	300 days/year
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine (Maximum)	:	In 181 m MSL
8	Elevation of Mine (Minimum)	:	In 178 m MSL
9	Ultimate Working Depth	:	In 144 m MSL
10	Water Table	:	In 139 m MSL and also 5 - 7 m bgl
11	Topography of Mine	:	Undulating and
12	Explosive Requirement	:	Slurry – 72 kg/day
13	Diesel/Fuel requirement	:	Diesel - 27 liter/day

Production Details :

Year	Production of Stone in Tonnes per Annum	Production of Stone in m ³ per Annum	Gritty Soil removable in cum for 4 years
1 st	111560	39843	3090
2 nd	111564	39844	1760
3 rd	111566	39845	00
4 th	111574	39848	1230
Total	446264	159380	6080

Land Use :

Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.000	0.000	3.51	1.42	1.42 Ha. (As Reservoir)

Green Belt within Safety Barrier	0.000	0.000	1.82	0.74	0.74 Plantation
Approach Road	0.007	0.003	0.00	0.00	-
Infrastructure	0.000	0.000	0.00	0.00	-
Unutilized Area	5.323	2.157	0.00	0.00	-
Total Area	5.330	2.160	5.33	2.16	2.16

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.74 Ha	1184
2	Other Reclaimed Area	:	0.000	000
3	Haul /Approach Road	:	0.14 Km	94 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 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report

Solid Waste Management

- Overburden Generation will be 6080 Cu.M. during the life of Mine. Gritty soil storage area is 0.1575 ha. The topsoil shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

1. Negligible impact envisaged on surface water and ground water due to mining as no discharge of effluent or intersection of ground water.
2. No major surface water body within 1 km radius of the project site.
3. Garland drain & settling tank will be constructed around dump for arresting run-off, it will be integral part of rainwater harvesting system.
4. Post-project the quarry area will serve as reservoir, which will be source of water for the nearby areas.

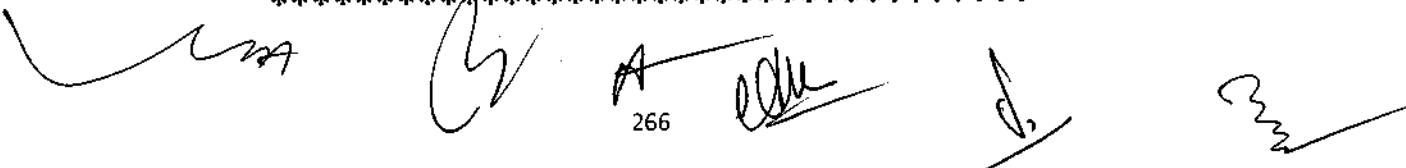
Air and Noise Pollution Control Measures:

1. Water sprinkling shall be done on the haul roads.
2. Plantation to be done in the safety zone develop a green belt along the ML boundary.
3. Sharp drill will be used and wet drilling will be followed.
4. Controlled blasting- Nonel technology will be used.
5. Overloading will be prohibited while transporting. Water sprinkling will be taken up.
6. Plantation along transportation route will be done.
7. Regular monitoring of Air quality & PUC for vehicle will be carried out.

Undertaking submitted affirming:

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

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 Sosomuli Stone Deposit of M/s Leading Construction, Village : Sosomuli, Tehsil : Rajnagar, Distt. : Saraikela-Kharsawan, Jharkhand (2.16 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

Handwritten signatures and initials of the committee members. One signature is clearly marked with the number 266.

4. 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 19.07.2022.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 90th meeting held on 14-18.09.2021 and SEIAA, Jharkhand has approved the ToRs in 92nd meeting held on 20th, 21st & 22nd September, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 158, date 23.09.2021. The final EIA / EMP submitted by PP to SEIAA on 14.07.2022 and received by SEAC on 14.07.2022.

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 ingots 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: 12 .16 Crores & Proposed: 47.84 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

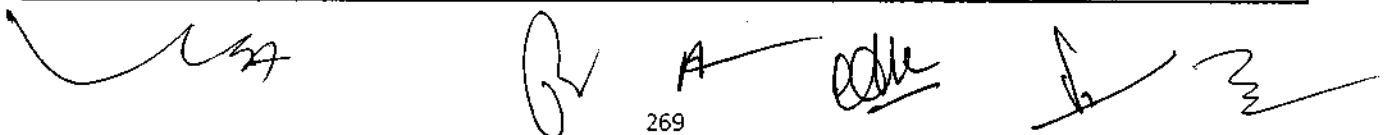
Project details:

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.
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 (~80 m ³ /day) and domestic requirement (~20 m ³ /day). The cooling

S. No	Parameters	Description
		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 m ³ /day of domestic wastewater. The wastewaters will be treated and entirely reused.
4.7	Man Power	Around 300 persons
4.8	Electricity/Power requirement	The electrical power requirement will increase to ~24000 kVA. One DG set of 500 kVA already installed (as power back-up).
4.9	Alternative site	The proposed addition will be established in the existing plant premises only.
4.10	Land form, Land use 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)	
Note:- Four Induction furnace is proposed to install of 25MT/day each and the existing furnace will be dismantled from the site.				
			Ladle refining furnace (LRF) (~50MT/batch)	
			Continuous casting (con cast) machine (50 T/hr)	
			Rerolling mill (50MT/hr)	



			Slag crusher Required utilities(40MT/hr)	
2.	Installed production capacity	~90MT/day (Steel ingots/billets)		~980 MT/day (billets) & ~950 MT/day (steel rolled sections)
3.	Fixed capital investment (Rs)	12 .16 Cr	47.84 Cr	60 Cr
	CER cost		84.00 lakh (capital cost) 11.00 lakh (recurring cost)	95 Lakh
4.	Electrical power requirement	~6.5MVA	~17.5MVA	~24MVA
	• 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
5..	Total land area	~ 12140.6 m2	~ 21714 m2	~33854 m2
6.	Manpower requirement (Direct)	~30	~50	~80
7.	Make up water requirement	~ 23m3/day	~35 m3/day	~58 m3/day
8.	Domestic water requirement	~2 m3/day	~1 m3/day	~3 m3/day
9.	Domestic wastewater generation	~2 m3/day	~1m3/day	~3m3/day
10.	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) • Waste oil/lubricant (5.1)	~300 kg/day ~100 kg/year	~2700kg/day ~400kg/day	~3000 kg/day ~500 kg/year
15.	APCD- Bag-House Filter	1	2	3

16.	Fuel	HSD- DG sets Electricity- Induction furnace	Electricity and Furnace oil or Coal	
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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 neighbouring 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 project is not recorded as “Jangle Jhari” in R.S. Khatiyar.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1383, 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.

During the presentation the following documents were sought :

- i. Plant layout to be revised showing 33% of green belt.
- ii. Source of raw materials alongwith mode of transport.
- iii. Water permission letter to be provided.
- iv. Characterisation of RSPM to be provided.
- v. Time bound action plan for public hearing.
- vi. EMP budget to be revised.

The Project Authorities have submitted the revised PPT including the above.

Based on the presentation made and information provided, the Committee decided that the proposal for 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 is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – V alongwith the following specific conditions :

- I. Site specific wild life conservation plan is to be submitted within 60 days.
- II. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- III. All raw material to be stored only under covered shed.
- IV. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- V. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- VI. Trees should be developed & maintained not less than 15% of project area.
- VII. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VIII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.

- IX. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- X. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- XI. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.

5. M/s Asit Kumar Mandal Stone Mine of Sri Asit Kumar Mandal, Mouza : Marro, Thana : Govindpur, Distt. : Dhanbad, Jharkhand (1.295 Ha).

(Proposal No. : SIA/JH /MIN /80727 /2022).

This project is listed on 19.07.2022 but on request of PAs it was taken for appraisal on 21.07.2022.

Project Category: B1 – Application for ToR.

EC Application for: Boulder Stone : Increase in production from 44,604 Tons (Max) /year to 1,74,000 Tons (Max) /Year upto 19.05.2026

DG Set : 25 KVA

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

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: M/S Asit Kumar Mandal Stone Mine, Project type – Stone Mine
2	Lessee:	: M/S Asit Kumar Mandal Stone Mine, Proprietor – Sri Asit Kumar Mandal,
3	Lease Address	: Mouza – Marro, Thana & Block- Govindpur, Dist - Dhanbad, State- Jharkhand.
4	Lease Area	: Ha: 1.295 ha Acres: 3.20 Acres
	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Capital Cost – 73.20 Lakhs
7	EMP Budget	: Capital: 14.5735 Lakhs Recurring: 02.09 Lakhs
8	CSR / CER Budget	: 2.20 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 3,62,468.617 Cum Tonnes: 10,87,405.85 Tons
11	Mine Life	: 3.92 years say 4.00 years
12	Man power	: 21
13	Water Requirement	: 15.76 KLD (Drinking:0.32 KLD, Dust Suppression: 5.60 KLD, Plantation:9.84 KLD

14	Water Source	: Water will be sourced from abandoned Mine through Water Tanker for Dust Suppression and Plantation. Water will be sourced from Bore Well within the lease area for Drinking and Domestic Consumption.
15	DG Set / power	: 25 KVA DG Set proposed
16	Crusher	: NA
17	Nearest Water Body	: Khudia River- 0.70 km – South
18	Nearest Habitation	: Marro – 0.73 km, Dhanbad – 10.20 KM
19	Nearest Rail Station	: Dhanbad Railway station – 10.50 km – SW
20	Nearest Air Port	: Ranchi Airport, Ranchi – 134 Km- SW
21	Nearest Forest	: Protected Forest - 5 Km- South
22	Road & Highways	: Pakka Road – 0.70 Km in North direction, S.H.-13 – 3.50 Km in East direction from project site

CO-ORDINATES

Sl.No.	Latitude	Longitude
P1	23° 52' 01.68" N	86° 29' 31.89" E
P2	23° 51' 59.91" N	86° 29' 26.98" E
P3	23° 52' 02.42" N	86° 29' 24.88" E
P4	23° 52' 01.51" N	86° 29' 23.12" E
P5	23° 51' 58.10" N	86° 29' 26.24" E
P6	23° 52' 00.81" N	86° 29' 32.38" E

LAND DETAILS

Khata No.	Plot No.
20	386(P)

STATUTORY CLEARANCES

1	LOI/Lease docs	: Lease from 20.05.2016 to 19.05.2026
2	CO	: The CO, Govindpur, Dhanbad, vide letter no. 1447, dated 07.11.2015 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in Khatiyar.
3	DMO	: DMO, Dhanbad vide memo no. 1832 /M, dated 03.10.2015 certified that nine another lease area exists within 500 m radius

		from proposed project site & Total lease area is 34.18 acre (more than 5 Ha).
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 960, dated 01.06.2022 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, Dhanbad vide letter no. 1303, dated 10.08.2015 certified that the distance of notified forest is more than 500 metre.
6	DSR	: This project is mentioned in page no.-18 (point no.- 28) of District Survey Report (DSR) at Dhanbad district.
7	Gram Sabha	: On 28.08.2015
8	Mine Plan Approval	: Mining Scheme approved by Additional Director, Geology, Hazaribag vide letter no. 627/G dated 26.07.2021
9	Earlier EC	: SEIAA letter no. EC/SEIAA/2015-16/1689/2015/2345, dated 30.12.2015
10	CTE & CTO from JSPCB	: CTE : Ref. no. : JSPCB/HO/RNC/CTE-908266/2016/452, dated 21.10.2016 CTO : Ref. no. : JSPCB/RO/DHN/CTO-10850072/2021/70, dated 30.07.2021

Working Details

1	Mining Method	: Semi Mechanised. Wagon Drilling & Blasting to be used
2	Quarry Area	: 5 years – 1.53 Ha End of Mine – 1.53 Ha
3	Waste Generation	: 5 years– Very minimal O.B. (Dead Rock Mixed with soil) will be generated. Life of Mine (Waste Gen.) – Very minimal O.B. (Dead Rock Mixed with soil) will be generated.
4	Stripping Ratio	: 1:0
5	Working Days	: 300
6	Bench: size & No	: 6 m x 6/7 m , Bench No.- 1 to 6 (Conceptual period depth)
7	Elevation of Mine	: Maximum Elevation – 340 AMSL Minimum Elevation – 315 AMSL
8	Ground Level Elevation	: 315 AMSL
9	Ultimate Working Depth	: 294 AMSL
10	Water Table	: 280 AMSL (35 m bgl)
11	Topography of Mine	: Undulating Terrain
12	Explosive Requirement	: 57.60 Tons/year

13	Diesel/Fuel requirement	:	246 KL/year (820 Litres/day)
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Production Details






Year	Slice/Bench	Cross Sectional Area Excavated (in m2)	Average Length of Excavation (m)	Annual Production (m3)	Annual Production in (Tonne)	Total Average Production Per Day (Tonne) Stone Boulder
1st	First(1) Bench (273 m to 267m) Each Bench Height 3.00m	800	72.50	58000	174000.00	580.00
2nd	Second (2)Bench (267 m to 261m) Each Bench Height 3.00m	800	72.50	58000	174000.00	580.00
3 rd	Third (3)Bench (261 m to 255m) Each Bench Height 6.00m	800	72.50	58000	174000.00	580.00
4th	Third (3)Bench (255 m to 249m) Each Bench Height 6.00m	800	72.50	58000	174000.00	580.00
5th	Fourth (4)Bench (264-255) Each Bench Height (3+6) 9.00m	800	72.50	58000	174000.00	580.00

Land Use

Existing Land Use pattern

Category	Area in Acre
Infrastructure	0.00
Garland Drain	0.00
Green belt	0.00
Settling Tank	0.00
Unutilized	3.20
Total Leasehold area	3.20

Proposed Land Use for Current Plan Period

Type of land use	Area (Acre)
Mining area	1.53
Infrastructure	0.01
Approach roads	0.01
Garland drain	0.28
Green Belt	1.17
Total	3.00
Balance Area	0.20
Lease hold Area	3.20

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

Type of land use	Area (Acre)
Mining area	1.53 (To be converted into Water Body)
Infrastructure, Approach Roads, Garland Drain	0.30 (Plantation)
Green Belt	1.17 (Plantation)
Total	3.00
Balance Area	0.20
Lease hold Area	3.20

ENVIRONMENT MANAGEMENT

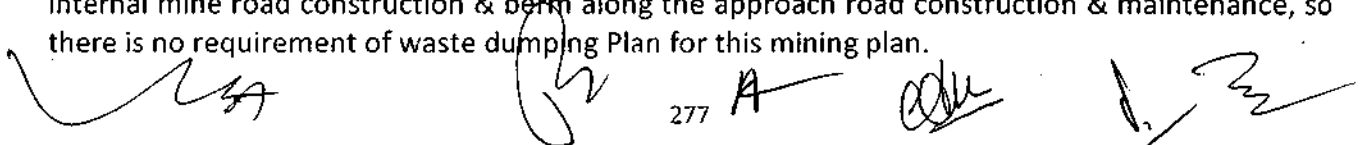
Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone/Green Belt and other reclaimed area (Infrastructure, Approach Roads, Garland Drain area)	: 0.60 ha	1,500 trees @ 2500 trees per ha.
2	Haul /Approach Road	: 0.70 KM	468 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.

Waste Generation

Very minimal O.B. (Dead Rock Mixed with soil) will be generated. OB will be utilized for backfilling, internal mine road construction & berm along the approach road construction & maintenance, so there is no requirement of waste dumping Plan for this mining plan.

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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.
- i. If any tree felling is required a permission should be taken from competent authority.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 15, 16, 17, 18, 19, 20, 21 & 22.07.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure II alongwith the following specific condition :

- I. EC compliance report of the previous EC duly certified by Regional Office, MoEF&CC, Govt. of India to be provided.

Day 6 : July 20th & 21st , 2022 [Wednesday & Thursday]

Consideration of Proposals

1. Residential Building "Panchmukhi Enclave" of M/s Anaadi Group, Mauza : Hatia, Thana no. : 248, Distt. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/ 283760/2022)

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

This is a new project which has been taken for appraisal on 20.07.2022.







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.

Anaadi Group is proposed to develop a Group housing project "Panchmukhi Enclave" on the total land area measuring 6097.95 m² located at Khesra No. 1590, Khata No. 209, Thana No. 248, Mauza – Hatia, Anchal- Namkum, Dist.-Ranchi, Jharkhand. The total build up area is 25723.67 m².

Salient Features of the Project

Sl. no.	Particulars	
1.	Latitude	23°16'56.42"N
2.	Longitude	85°19'11.15"E

Sl. no.	Particulars	
3.	Plot Area	6097.95 Sqm.
4.	Proposed Ground Coverage (@32.18%)	1962.63 Sqm.
5.	Proposed Built-up Area	871.79
6.	Total (Existing + Proposed)	19981.04
7.	Proposed Parking Area	5742.63
8.	Total Built-up Area	25,723.67 <i>Note: Existing Built-up Area: 19981.04 Sq.m in under construction for which EC was not required.</i>
9.	Total Parking Proposed (ECS)	Four Wheeler: 181 ECS Two Wheeler: 179 Nos.
10.	Total Green Area with @20%	1220 Sqm.
11.	Rain Water Harvesting Pits (with size)	4 (12.57 Cumec / hour)
12.	STP Capacity	150 KLD
13.	Maximum Height of the Building (m)	~33 m.
14.	Power Requirement	1000 KVA (Source: The source of power will be supplied by Jharkhand State Electricity Board.)
15.	Power Backup (DG sets)	2 x 200 KVA
16.	Total Water Requirement	~144 KLD
17.	Fresh / Domestic Water Requirement	~91 KLD
18.	Reuse of Recycled Water	~ 53 KLD
19.	Waste Water Generated	~122 KLD
20.	Solid Waste Generated (Operational)	~486 Kg/day
21.	Biodegradable Waste (Operational)	~292 Kg/day
22.	Non-Biodegradable Waste (Operational)	~194 Kg/day

Sl. no.	Particulars		
23.	Number of Tower (Residential Building)	04	
24.	Basement	01	
25.	Stories	B+G+9 (Maximum) Max. Height of the Building: 30m.	
26.	R+U Value of Material used (Glass)	U-value-5.6 w/m ² R-value- 0.17 w/m ²	
27.	Total Cost of the project:	36.98 Cr.	
28.	EMP Budget	During Construction: Capital: 19.5 Lakhs Recurring: 20.25 Lakhs Operational Cost: Capital: 89 Lakhs Recurring: 18.5 Lakhs	
29.	Construction Phase:	i) Power Back-up	50 KVA each
		ii) Water Requirement & Source	Fresh water – 9 KLD Treated wastewater-12 KLD Source: Tanker Water
		iii) STP (Modular)	20 KLD
30.	Connectivity	Hatia Railway Station Approx. 3.19 km, NW Approx. 3.90 km, SW Birsa Munda Airport	
31.	CER Cost	37 Lakhs	

Detailed Area Statement

Particulars	Area (Sqm.)
Plot Area	6097.95
Existing Built-up Area	19109.25
Proposed Built-up Area	871.79
Total (Existing + Proposed)	19981.04
Proposed Parking Area	5742.63
Total Built-up Area	25,723.67
Ground Coverage@ (32.18%)	1962.63
Green Belt Area @ 20%	1220

Details of Building Blocks

	3BHK	2BHK	Shop	Community Hall	Total units	No. of Floors
Block-A	27	0	3	0	30	B+G+4

Block-B	36	18	0	0	54	B+G+9
Block-C	45	0	0	0	45	G+9
Block-D	32	0	0	1	33	G+4
Total	140	18	3	1	162	--

Calculation of Population

Description	No. of units / Area in Sqm.	Unit Population	Population
Main Dwelling Units (Residential) 3 BHK	140	6	840
Main Dwelling Units (Residential) 2 BHK	18	5	90
Shop	3	6	18
Community Hall	1	250	250
Visitors (15% of the residential population)	...	...	180

Parking Details

S.no.	Parking Type	Prop No. / ECS
1.	Car Parking	157
2.	Two Stack car	6
3.	Visitors car parking	17
4.	Ambulance	1
5.	Two wheeler parking	179

Calculation of Green Area

Total Plot Area	6097 Sqm.
Landscape are provided	1220 Sq.m
Total No. of Trees will be Planted @ 1 tree per 80 Sqm. of Plot Area	76 Nos.

Details of Water Requirement

S. No.	Description	No. of units / Area in Sqm.	Unit Population	Population	Unit water consumption (lpcd)	Total water required (kl)	Fresh water required (kld)	Flushing (kld)	Total Wastewater (kld) (80% of domestic +100% Total flushing)
1	Main Dwelling Units (Residential) 3BHK	140	6	840	135 (90+45)	113	76	37.8	98.6
2	Main Dwelling Units (Residential) 2BHK	18	5	90	135 (90+45)	12	8.1	4.05	10.53

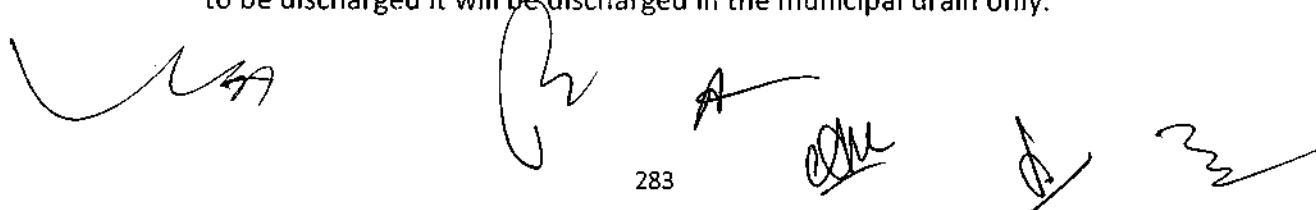
3	Shop	3	6	18	45 (25+20)	1	0.45	0.36	0.72
4	Community Hall	1	250	250	45 (25+20)	11	6.25	5	10
5	Visitors (15% of the residential population)	...	...	180	15 (5+10)	3	0.90	1.797	2.5158
Subtotal -I						140.31	91	49.007	122.37
Reuse of treated water									
1	Horticulture	1220 Sq.m.	...	...	3 liter/sqm of Landscape area	4			
		Subtotal II				4			
		Grand Total I+II				144.31			

STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 1466, dated 18.04.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 252, dated 16.03.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Namkum (Ranchi) vide letter no. 1078(ii), dated 21.05.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
4	AAI NOC	:	Airport Authority of India has issued NOC vide letter no RANC/EAST /B/101920/ 503584, dated 22.10.2020.
5	Fire Department	:	A fire advisory from Fire Department, Jharkhand, Ranchi issued vide letter no. 526 dated 28.10.2016.
6	Building Plan	:	RRDA has approved building plan vide case no. RRDA/GH/0340 /2019/ALT1, dated 28.07.2021.

During the presentation the following documents were sought :

- i. EMP budget to be revised.
- ii. Undertaking affirming that :
 - a. Surface run-off will be used in ground water recharge and in worst case if this need to be discharged it will be discharged in the municipal drain only.




- b. During construction ground water will not be used and in case if it is required then proper NOC will be obtained from the competent authority.
- c. 15% of the green belt will developed on the site.

The Project Authorities have submitted the above mentioned document / undertaking.

Based on the presentation made and information provided, the Committee decided that the proposal for Residential Building "Panchmukhi Enclave" of M/s Anaadi Group, Mauza : Hatia, Thana no. : 248, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – III alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.



2. 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/ 283899/2022)

Consultant : Rian Enviro Pvt. Ltd., Patna, Bihar

On the request of PAs the project has been taken for appraisal on 21.07.2022.

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

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

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

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

Project Category: 8(a) Category B2 (considered as B1 due to violation).

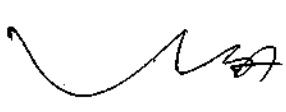


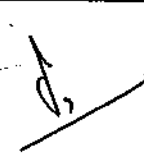

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 94th meeting held on 10-14.05.2022 and SEIAA, Jharkhand has approved the violation ToR in 95th meeting held on 14th, 15th & 16th June, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 130, date 18.06.2022. The final EIA / EMP submitted by PP to SEIAA on 20.07.2022 and received by SEAC on 20.07.2022.

EC Application for: Residential buildings: Total built-up area of 37228.22 Sqm (Approx. 35% part of the project has already been constructed).

Project and Location Details:

Parameters	Description
Plot Area	8585.50 Sqm. (or 0.8585 Ha.)
Project Cost	INR 50.00 Crores

Built-up Area	85810.83 m ²
Green Area	1160.74 Sq.m (@13.51 % of plot area)
Population	Residential: 972 Nos. & Commercial: 30 Nos. Visitors & Staff: 70 Nos.
Water Requirement	149 KLD
Fresh Water Requirement	99 KLD
Wastewater Generation	126 KLD
STP Capacity	151 KLD
Total Municipal Waste	453 kg/day Biodegradable Waste: ~ 272 Kg/day Non-Biodegradable Waste: ~181 Kg/day
Power Requirement	1487 KVA (Jharkhand State Electricity board)
DG Sets	1440 KVA 4x360 KVA + 320 KVA
RWH Pits	3 (35.42 Cumec / hour)
Parking	299 (Four wheeler), 467 (Two wheeler), 24 (Visitors car Parking), 1 (Loading/Unloading Parking), 12 (Other parking).
Connecting road	Project site is well connected with road. Site is well connected with NH 33, SH 1, Namkum Main road.
National Highway	NH 33 (Approx. 3.29 km, SE) Adjacent road (Namkum Main road is in South Direction)
Nearest Railway Station	Ranchi junction Railway station, (2.57 km, NW)
Airport	Birsa Munda Airport, (Approx. 3.5 km, SW)
Nearest Hospitals	St. Barnabas Hospital (Approx. 3.76 km, NW) Jharkhand National Hospital (Approx. 3.78 km, N)
Nearest Water Bodies	Thakur Talab- Approx. 2.11 km, NW Chatt Talab- Approx. 2.55 km, N Batam Talab- Approx. 3.58 km, NW Ranchi Lake- Approx. 5.23 km, NW Dhruwa Dam- Approx. 11.29 km, SW Nallah- Approx. 0.29 km, SE Subarnarekha River- Approx. 0.43 km, E

Area Summary

S. No.	Description	Area (sq m)
1.	Plot Area at Site	8856.76
3.	Green Belt Area	1160.74
4.	Open Area	5096.29
5.	Ground Coverage	2599.73
6.	FAR Residential & Commercial	25711.55
7.	Non-FAR Residential & Commercial	2931.17
8.	Built-Up Residential & Commercial	37228.22
9.	Dwelling Units./Units Residential	Block A- 96 Block B-60 Block C-60
10.	Green Area (@13.10% of net plot area)	1160.74
11.	Height	47 m

Co-Ordinates:

1	Latitude	23°19'55.73"N
2	Longitude	85°21'20.63"E

Land Details:

1	Village - Bada Ghaghra, Tehsil - Argora, District - Ranchi	Khata no. 271, 272	Plot No. 1937, 1938, 1939
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Statutory Clearances:

1	DFO Certificate	:	Divisional Forest Officer (DFO), Ranchi Forest Division vide letter no. 4978, dated 21.12.2020 certified that distance of Reserved Forest/Protected forest is more than 250 meter from project site.
2	DFO wildlife	:	DFO, Wild life Ranchi division vide memo no. 50 dated 15.01.2021 certified that the National Park & Sanctuary is not within 10 km from project is not situated within in any ESZ.
3	CO certificate	:	The CO, Argora, Ranchi vide letter no. 5 dated 05.01.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
4	AAI NOC	:	Airport authority of India issued NOC vide NOC ID RANC/EAST/B/042019/388950 dated 01/05/2019
5	Fire Department	:	A Certificate from Fire Department, Jharkhand, Ranchi, vide letter no. 961 dated 15.04.2019.
6	Building Plan	:	Ranchi Municipal Corporation approved building plan vide case no. BP/W47/0647/18 dated 27.09.2018

Water and waste water Requirement Details

S. No.	Description	No. of units/Area in Sqm	Unit Population	Population	Unit water consumption (lpcd)	Total water required (kl)	Fresh water required (kld)	Flushing (kld)	Total Wastewater (kld)(80% of domestic +100% Total flushing)
1	Main Dwelling Units (Residential)	216	....	972	135 (90+45)	131	87	43.74	113.724
2	Visitors (5% of the residential population)	...	...	50	15 (10+5)	0.75	0.5	0.25	0.65
3	Commercial Unit	...	...	30	45 (30+15)	1.35	0.9	0.45	1.17
4	Staff	...	...	20	15 (10+5)	0.3	0.2	0.1	0.26
5	Swimming Pool	...	...	10	...	10	...	...	10
Subtotal -I						143.62	89	44.54	125.80
Reuse of treated water									
1	Horticulture	1160.74	3 liter/sqm of Landscape area	...	...	4	...	...	...
2	DG Cooling	1440 KVA	...	...	...	1	...	...	...
Subtotal II						5	...	...	...
Grand Total I+II						149	...	...	...

Category	Total Quantity (KLD)
Fresh water Req. for domestic purpose	99
Flushing water Req.	45
Sewage generation (@80% of the fresh water consumption + 100% flushing water & swimming Pool)	126 (71+40+10)
Capacity of STP	151
Recovered water from STP (80% of Waste water)	111
17. Flushing	45
18. Landscaping	5
19. Discharge to Sewer	61

Solid Waste Requirement

S. No.	Category of Solid Waste	Waste Generation Rate	Formula	Total Population	Waste Generated	Bio-degradable	Non-biodegradable
1	Residential Refuse	0.3 to 0.6 kg/cap/day	Total Population*0.45	972	437.4	262.44	174.96
2	Visitor (5% of the residential Population)	0.1 to 0.3 kg/cap/day	Total Population*0.15	50	7.5	4.5	3
3	Commercial	0.05 to 0.2 kg/cap/day	Total Population*0.125	30	3.75	2.25	1.5
4	Staff	0.1 to 0.3 kg/cap/day	Total Population*0.2	20	4	2.4	1.6
	Total			1072	453	272	181

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1160.64 sq m (@13.10 % 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 recyclers.

During Operation Phase

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

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 151 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 99 KLD of fresh water is required during operational phase of the project.

Air Quality Management

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

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Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area.

During the presentation the following document was sought :

- i. The PAs has to be submitted the remediation plan and natural & community resource augmentation plan before the Committee in the line of CPCB guidelines.

The project will be taken up for re-appraisal, on receipt of the above document.

3. Group Housing Project "Hope Residency" of M/s Home Line Builders, Village : Argora, Tehsil : Ranchi, Distt. : Ranchi, Jharkhand

(SIA/JH/MIS/283685/2022)

Name of the consultant : P and M Solution, Noida

This is a case of violation which has been taken for appraisal on 21.07.2022

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

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

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

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

Project Category : 8(a) Category B2 (considered as B1 due to violation).



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The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the **violation ToR** in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 95, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 16.07.2022 and received by SEAC on 16.07.2022.

EC Application for : Residential buildings: Total built-up area of 21468.21sq m. (Existing 8587.284 sq.m + Proposed 12880.92 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	4768.40 m ² (approx. 1.18 acre)
Project Cost	INR 75 Crores
Built-up Area	21468.21 m ²
Green Area	238.42 sq m (@ 5% of balance plot area)
Population	968
Water Requirement	125 KLD
Fresh Water Requirement	87 KLD
Wastewater Generation	115 KLD
STP Capacity	120 KLD
Total Municipal Waste	484 kg/day
Power Requirement	400 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	07 no.
Parking	383 no.
Connecting road	The project site is well connected with road. Site abuts the road in West direction which connects to 9 m road at distance of 800 m in South direction.
National Highway	NH 75 (1.0 km, E) 9 m road (800 m, S)
Nearest Railway Station	Ranchi junction Railway station, (4.7 km, E)
Airport	Birsa Munda Airport, (3.5 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) Raj Hospital (3.6 km, ENE)
Nearest Water Bodies	Argoda Talab (900 m, NE)

Ranchi Lake (3.5 km, NE)
Dhurwa Dam (6.3 km, SW)
Kanke Dam (5.1 km, N)

Area Summary

S. No.	Description	Area (sq m)
1.	Plot Area	4768.4
2.	Common Plot	508.01
3.	Balance plot area (1-2)	4260.39
4.	Permissible Ground Coverage (@35% of net plot area)	1668.94
5.	Proposed Ground Coverage (@32.76% of net plot area)	1562.28
6.	Permissible FAR (@3.5 of plot area)	16689.4
7.	Proposed FAR (@3.47 of plot area Residential Basement	16549.50 16527.2 22.3
8.	Non FAR Area (including Basement) Basement On floors	4,918.71 2270.7 2648.01
9.	Built-up Area	21468.21
10.	Green Area (@5% of plot area)	238.42
11.	Height	40.75
12.	No of Dwelling Units	181

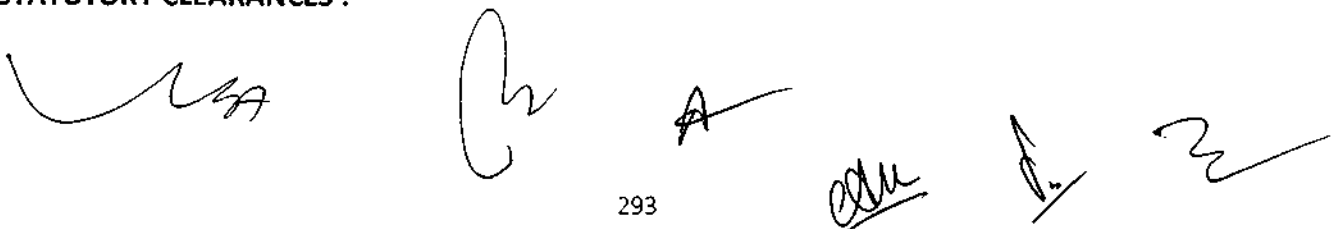
CO-ORDINATES :

1	Latitude	From 23°20'59.10"N	To 23°21'03.90"N
2	Longitude	From 85°17' 16.6"E	To 85°17'20.40"E

LAND DETAILS

Khata no.	Plot no.
27	816
79	806, 807
197	808

STATUTORY CLEARANCES :



1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 4530, dated 12.11.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 1007, dated 16.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Argora, Ranchi vide letter no. 422, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/102318/344271 dated 29.10.2018.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 276/tech dated 31.01.2019.
6	Building Plan	: Approved Building Plan

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	905	135	122	86	36
Staff	18	45	1	0.5	0.5
Visitors	45	15	1	0.5	0.5
Total Domestic Water Demand			124	87	37
Landscape	238.42	3 l/day	1	0	1
Total		-	125	87	38

Category	Total Quantity (KLD)
Fresh water Req.	87

Flushing water Req.	37
Sewage generation (@90% of the fresh + 100% flushing water requirement)	115
Capacity of STP	120
Recovered water from STP (80% of Waste water)	92
20. Flushing	37
21. Landscaping	
22. Construction in nearby areas/road washing/sewer	1
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Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	905	0.5	453	136	317
2.	Staff	18	0.25	5	2	3
3.	Visitors	45	0.15	8	2	6
4.	Landscape waste	0.06 acres	0.2 kg/acres	1	0	1
5.	STP sludge	115 KLD	--	17	0	17
Total Waste Generated				484	140	344

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 238.42sq m (5% 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 recyclers.

During Operation Phase

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

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 120.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 87.0 KLD of fresh water is required during operational phase of the project.

Air Quality Management

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

Energy conservation

- Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 5 Nos of solar panels will be used to save around 10 % of the total power requirement).

The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 29.65 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource and Environmental / Ecological Damage assessment with budgetary provision for expenditure under the below mention head for remediation :-

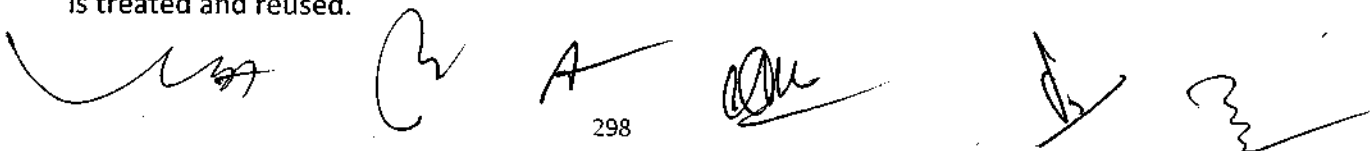
Sr. No.	Major Environment	Details	Cost Rs in Lacs
1	Air Environment	Maintenance of Road to Nearby Area	8.00
2	Water Environment	Maintenance of natural water stream	8.00
3	Soil Environment	Development of Nursery for raising samplings, training	5.00
4	Socio-Economic Environment	Creation of Cow shed in near by localities	5.00
5	Energy conversation	Provision of solar panelling in common areas in nearby surrounding of villages	3.65
Total Cost Rs. In Lacs			29.65

- I. The Committee visited the project site on 19.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 29.65 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee of an amount of Rs. 29.65 Lakh towards remediation plan and natural and community resource augmentation plan with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.
- IV. The bank guarantee shall be released after successful completion of remediation plan, duly recommended by the SEAC, Regional Office - MoEF&CC, Govt. of India and approval of regulatory authority. Remediation plan shall be completed in 03 years with the consultation of Local / Urban Bodies / State Govt. Deptt.

- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation measures adhering to part of ECBC norms shall be complied with.
- IX. The penalty of rupees 1.15 Lakh being 1% of the capital investment incurred till date (Rs. 1.15 Crores) shall be submitted to Jharkhand State Pollution Control Board in the form of demand draft and evidence of the same to be submitted to SEIAA, Jharkhand prior to grant of EC.
- X. Action will be taken for the violation by the Jharkhand State Pollution Control Board under the provision of section 19 the Environment (Protection) Act, 1986.

Based on the presentation made and information provided site visit, the Committee decided that the proposal for Group Housing Project "Hope Residency" of M/s Home Line Builders Village : Argora, Tehsil : Ranchi, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure -- III alongwith the following specific conditions :

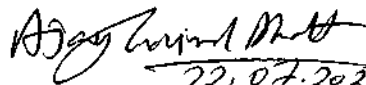
- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.

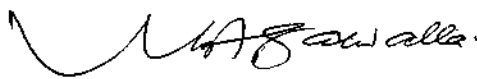


- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.


Meeting concluded with thanks to all present.



 (Dr. Raju Kumar)
 Member


 22.07.2022
 (Dr. Ajay Govind Bhatt)
 Member


 (Niranjan Lal Agarwalla)
 Member

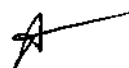

 22/7/22
 (Dr. Kirti Avishek)
 Member


 (Srikant Verma) 22/7/22
 (Secretary)


 22/7/2022
 (Ashok Kumar Singh)
 (Chairman)







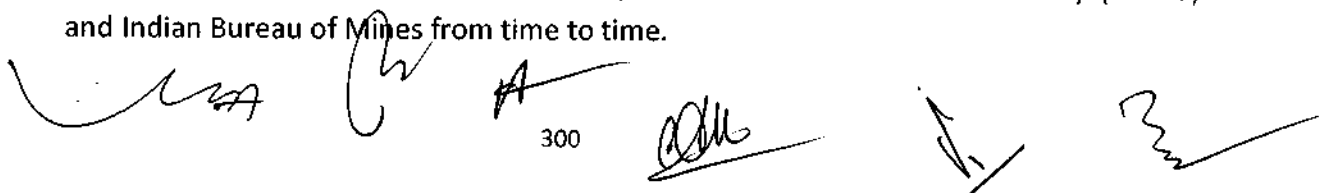


I. Statutory compliance

- 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. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km In which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- iii. The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- iv. The Hon'ble Supreme Court vide order dated 08.01.2020 in W.P. (Civil) No.114/2014 in the matter of Common Cause vs. Union of India has directed that the area which has been mined should be restored so that grass and other vegetation including trees can grow in the mining area for the benefit of animals.

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

- v. The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- vi. This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- vii. This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- viii. Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- ix. The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.

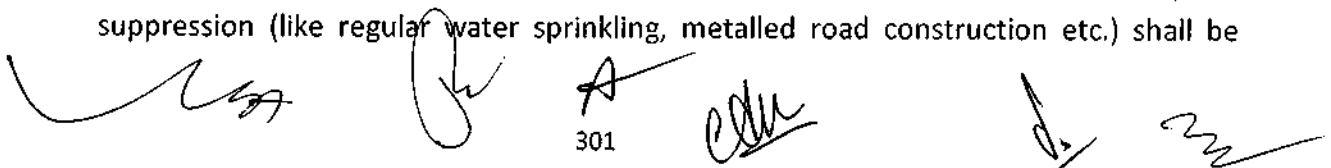


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- x. The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- xi. The Project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

II. Air quality monitoring and preservation

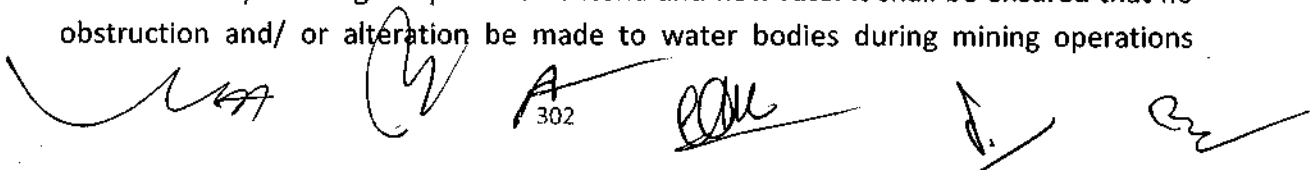
- i. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCUI, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- ii. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be

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carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from 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 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

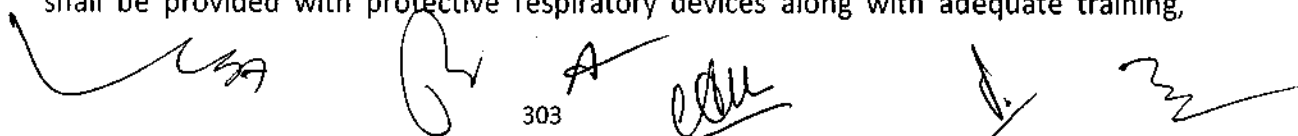
- i. In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that 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

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- without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
- v. Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IAJI (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
 - vi. Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.
 - vii. Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
 - viii. The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

- i. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- ii. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- iii. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training,

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awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining Plan

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

VI. Land reclamation

- i. The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- ii. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as

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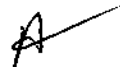
- per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- iii. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
 - iv. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
 - v. The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
 - vi. Catch drains, settling tanks and ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
 - vii. Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
 - viii. The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

VII. Transportation

- i. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural



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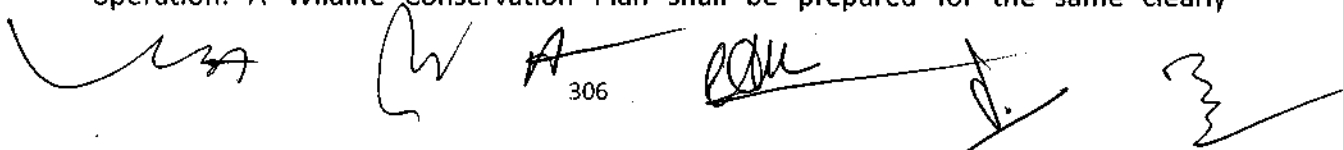


roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.

- ii. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

- i. The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- ii. The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- iii. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- iv. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly

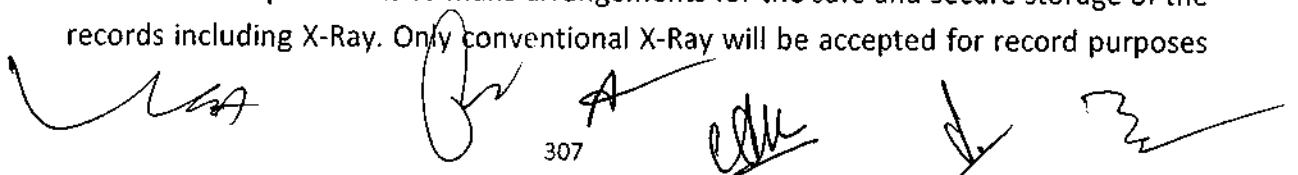
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delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.

- v. And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

IX. Public hearing and human health issues

- i. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.
- ii. The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
- iii. The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium-Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes



- and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- iv. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.
 - v. The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
 - vi. Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
 - vii. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

X. Corporate Environment Responsibility (CER)

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

XI. Miscellaneous

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



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

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

other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

- xi. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- xii. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- xiii. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- xiv. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- xv. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- xvi. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- xvii. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- xviii. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- xix. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also

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

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

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

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

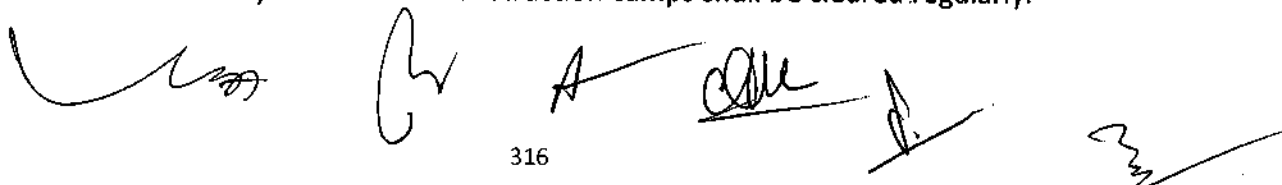
- xxxvi. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- xxxvii. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- xxxviii. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- xxxix. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- xl. Details of litigation pending against the project, If any, with direction /order passed by any Court of Law against the Project should be given.
- xli. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- xlii. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 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.
- xliv. Besides the above, the below mentioned general points are also to be followed :-
 - a) Executive Summary of the EIA/EMP Report
 - b) All documents to be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.

- g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF & CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
- xlv. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
- xlvi. The prescribed TORs 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. Provison 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.

II. Air quality monitoring and preservation

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.

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

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

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

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

IV. Noise monitoring and prevention

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

V. Energy Conservation measures

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.



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

VI. Waste Management

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- 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 / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.


XI. Miscellaneous

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



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- xi. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.



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

A. Standard Conditions :

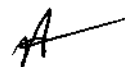
1. Examine base line environmental quality along with projected incremental load due to the project.
2. Environmental data to be considered in relation to the project development would be (a) land, (b) ground water,(c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations,(g) socio economic and health.
3. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding areas. Any obstruction of the same by the project.
4. Submit the details of the tree felling for the project.
5. Submit the present land use and permission required / obtained for any conversion such as forest, agriculture land etc.
6. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of E (P) Act.
7. Ground water classification as per the Central Ground Water Authority.
8. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
9. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water.
10. Examine details of solid waste generation, treatment and disposal.
11. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption and energy efficiency.
12. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
13. Examine road / rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
14. Examine the details of transport of materials for construction which should include source and availability.
15. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
16. Submit details of a comprehensive Disaster Management Plan including emergency evacuation and fire during natural and man-made disaster.



17. Details of litigation pending or any notice received against the project, if any, with direction / order passed by any Court of Law against the Project should be given.
18. The cost of the Project (capital cost and recurring cost) the damage cost of already opened land as well as the cost to wards implementation of EMP should be clearly spelt out.
19. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measures, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".
20. Any other rules / guidelines / orders issued by any competent authority shall be applicable to the project at the time of consideration of the projects for grant of EC.

B. Specific Conditions :

1. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
2. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
3. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
4. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
5. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".
6. Management of solid waste and the Construction & Demolition waste for the project vis- a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
7. Details of all construction input should be furnished for assessment of Ecological damage/Environmental damage.
8. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.



9. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
10. 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.

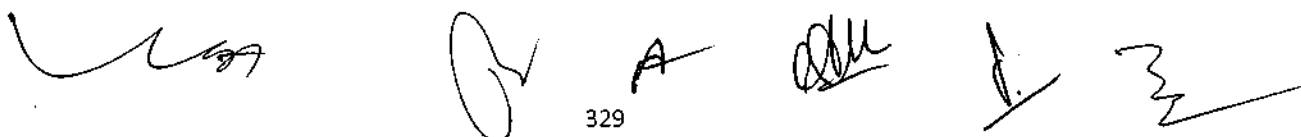


I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- iv. 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.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind



and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)

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

III. Water quality monitoring and preservation

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

ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.

- iv. Adhere to 'Zero Liquid Discharge'.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vi. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- vii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- viii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- ix. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

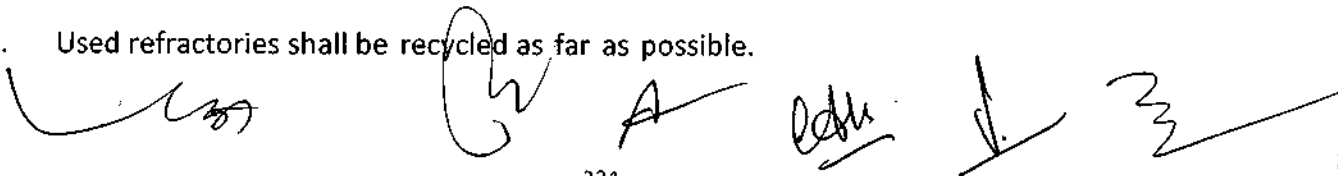
- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz.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

V. Energy Conservation measures

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

VI. Waste management

- i. Used refractories shall be recycled as far as possible.

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

VII. Green Belt

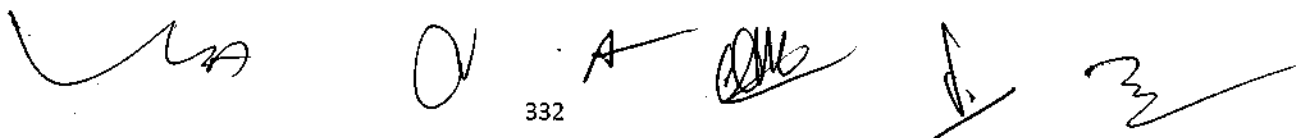
- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall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

VIII. Public hearing and Human health issues

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

IX. Corporate Environment Responsibility

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

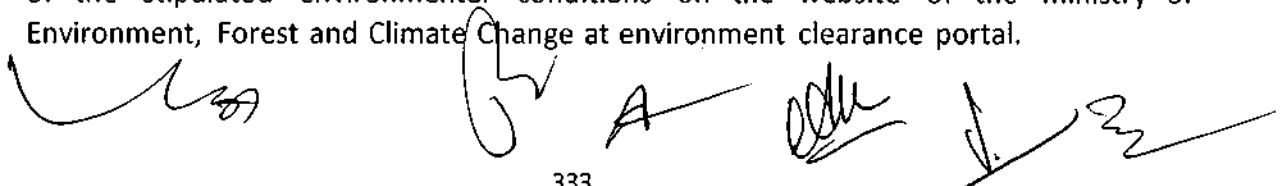


shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

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

X. Miscellaneous

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



- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

C. Other Conditions:



- i. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- ii. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.
- iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

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

A . Standard Terms of Reference

1. The project should be designed based on the population projections as by Master Plan.
2. Submit a 10 km. radius map (on survey of India toposheet) showing co-ordinates of project site, national highway, state highway, district road/approach road, river, canal, natural drainage; protected areas, under Wild Life (Protection) Act, archaeological site, natural lake, flood area, human settlements (with population), industries, high tension electric line, prominent wind direction (summer and winter), effluent drain, if any and ponds etc. should be presented and impacts assessed on the same.
3. Examine and submit details of alternative technologies viz. RDF shall also be evolved.
4. Examine and submit details of storm water/ leachate collection from the composted area.
5. Examine and submit details of monitoring of water quality around the landfill site. Water analysis shall also include for nitrate and phosphate.
6. Examine and submit details of the odour control measures.
7. Examine and submit details of impact on water bodies/rivers/ ponds and mitigative measures during rainy season.
8. Submit the criteria for assessing waste generation. Any segregation of hazardous and bio-medical wastes.
9. Submit a copy of the layout plan of project site showing solid waste storage, green belt (width & length, 33% of the project area), all roads, prominent wind direction, processing plant & buildings etc. should be provided.
10. Submit a copy of the land use certificate from the competent authority.
11. NOC from local or nearest airport within 20 km and any flight funnel restrictions.
12. Submit a copy of the status of ambient air quality and surface and ground water quality, soil type, cropping pattern, land use pattern, population, socio-economic status, anticipated air and water pollution.
13. Submit a copy of the topography of the area indicating whether the site requires any filling, if so, the details of filling, quantity of fill material required, its source and transportation, etc.
14. Examine and submit the details of impact on the drainage and nearby habitats/settlements (surroundings).
15. Examine and submit the details of surface hydrology and water regime and impact on the same.
16. Examine and submit the details of one complete season AAQ data (except monsoon) with the dates of monitoring, impact of the project on the AAQ of the area (including H₂S, CH₄).
17. Submit a copy of detailed plan of waste management.
18. Submit the details of sanitary land fill site impermeability and whether it would be lined, if so details thereof.

19. Examine and submit the details of impact on environmental sensitive areas.
20. Examine and submit the details of rehabilitation/compensation package for the project effected people, if any.
21. Submit Environmental Management Plan and Environmental Monitoring Plan with costs and parameters.
22. Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.
23. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
24. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
25. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
26. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Common Municipal Solid Wastes>".
27. 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.
28. 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.

