

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

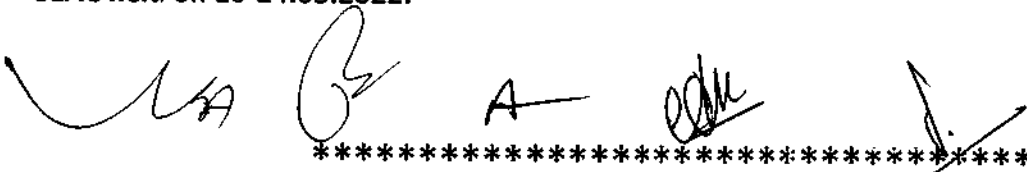
- i. Karaundajore Stone Mine of Sri Hemant Kumar Ohdar, Village : Karaundajore, Thana : Bharno, Dist. : Gumla, Jharkhand (2.83 Ha)

(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

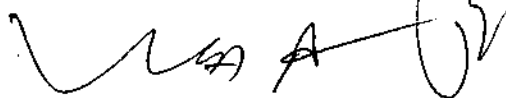
EC Application for: Proposed Capacity- 31,666.05 cu.m/annum or 85,498.33 TPA

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 | Benches: 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 |

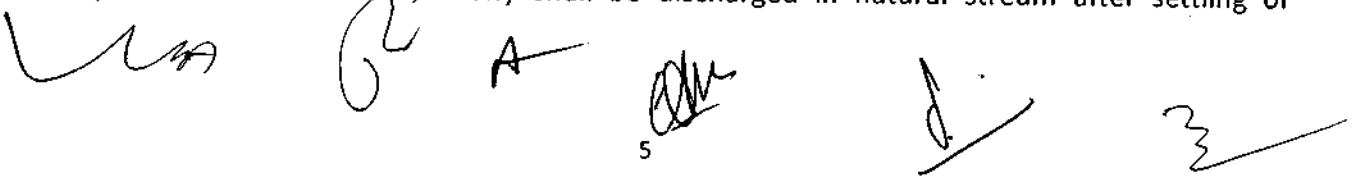
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

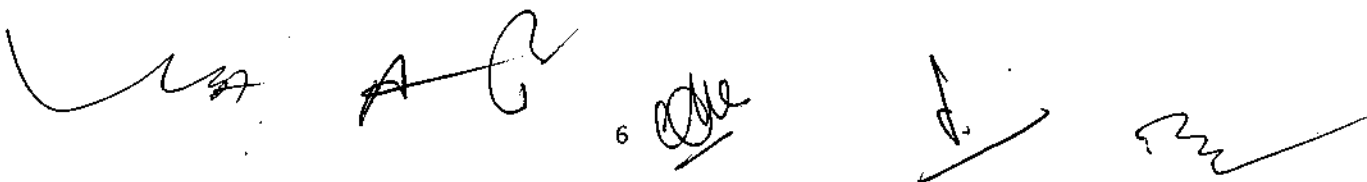
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing 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.



- 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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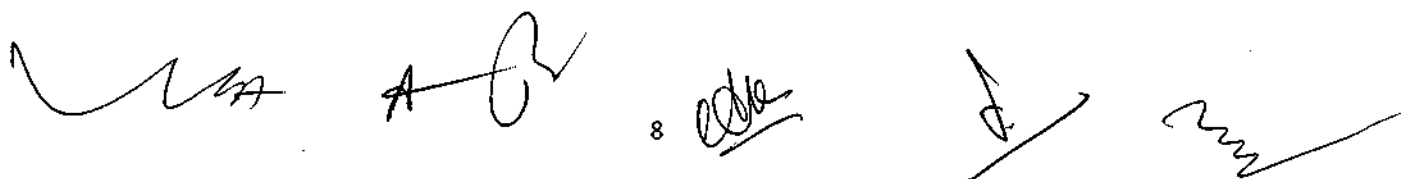
| | | | |
|----|----------------------|---|--|
| 5 | Type of Land | : | Non Forest – Rayati Land |
| 6 | Project Cost | : | 43.90 Lakhs |
| 7 | EMP Budget | : | Capital: 9.90 Lakhs Recurring: 4.00 Lakh / year |
| 8 | CSR / CER Budget | : | Rs. 2.20 Lakhs |
| 9 | New or Expansion | : | New Project |
| 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 |

| | | | |
|----|-------------------------|---|-----------|
| 13 | Diesel/Fuel requirement | : | 90 lt/day |
|----|-------------------------|---|-----------|

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 |
|---|---------------------|---|--------|---|

- 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

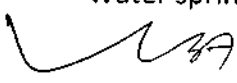
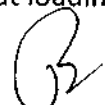
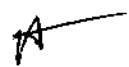



- There is no waste to be generated during life of mine.

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).

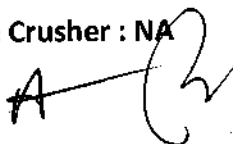
Project Category: B1 – Application for Environment Clearance

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

Waste : 139097 Cu.M. / year

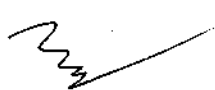
DG Set : NA

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.


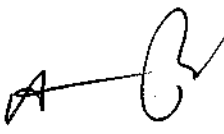
Solid Waste Management

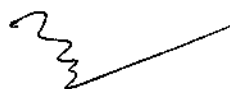
- Waste Generation will be 139097 Cu.M. during the life of Mine. Dump area proposed for waste storage is 1.09Ha. The Waste shall be handled as detailed below:

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.

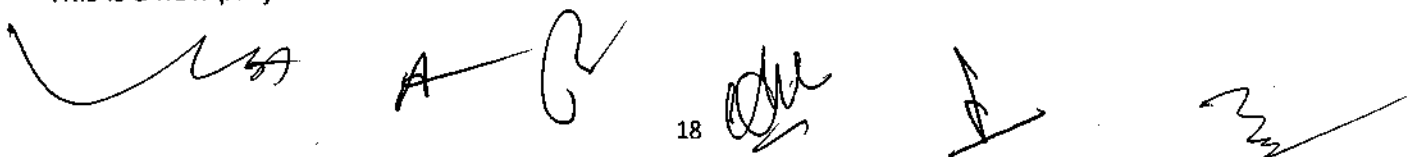
2. Dungri-Puttia Sand Mining Lease of M/s Tata Steel Limited (Prop. Mr. Chavala Divaker), Village : Dungri-Puttia, Tehsil : Jhariya & Putki, Dist. : Dhanbad, Jharkhand (24.127 Ha).

(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 :

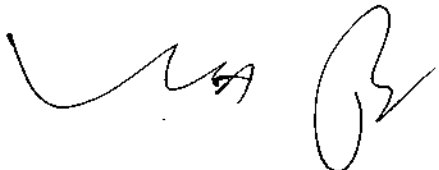
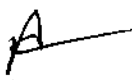
| Sl | Parameter | Details | |
|----|----------------------|---------|---|
| 1 | Project Name | : | DUNGRI - PUTTIA SAND MINING LEASE |
| 2 | Lessee: | : | Tata Steel Ltd. |
| 3 | Lease Address | : | Jharia Division, Tata Steel, Jamadoba - 828112 |
| 4 | Lease Area | : | 24.127 Ha. Acres: |
| 5 | Type 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) |

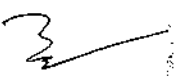
CO-ORDINATES :

| | | | |
|---|-----------|---------------------|-------------------|
| 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


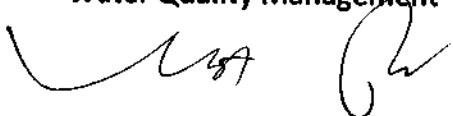
| Sl. No | Land use | Area (Ha) |
|--------------|--------------------------------------|------------------------|
| 1. | Excavation Area | 19.13 (in river bed) |
| 2. | Safety Zone/ rationalization area | 4.597 (left untouched) |
| 3. | Road & Infrastructure Area | 0.4 |
| Total | | 24.127 |

- 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.


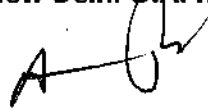


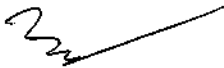
Air Quality Management

- 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

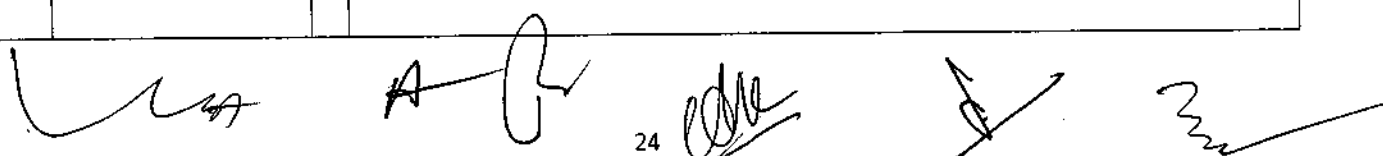
| | | | |
|---|-----------|----------------------|-------------------|
| 1 | Latitude | From N22°39' 36.58" | To N22°39'50.24" |
| 2 | Longitude | From E86° 09' 50.76" | To E86°10' 10.57" |

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 Khatiyani. |
| 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.

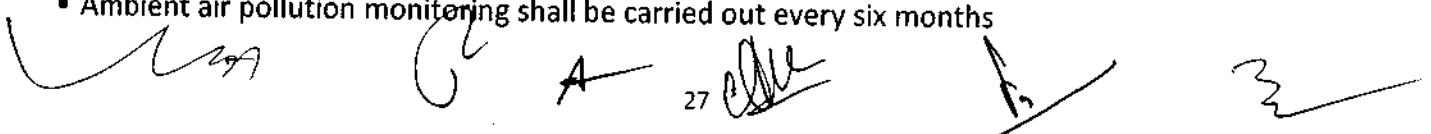
The area is covered with a thin layer of gritty soil. During plan period gritty soil will be removed and this will be at first dumped in the South - East portion of the applied area with suitable precaution and in conceptual period total removal gritty soil will be backfilled within the exhausted quarry. 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

 27

Undertaking submitted affirming:

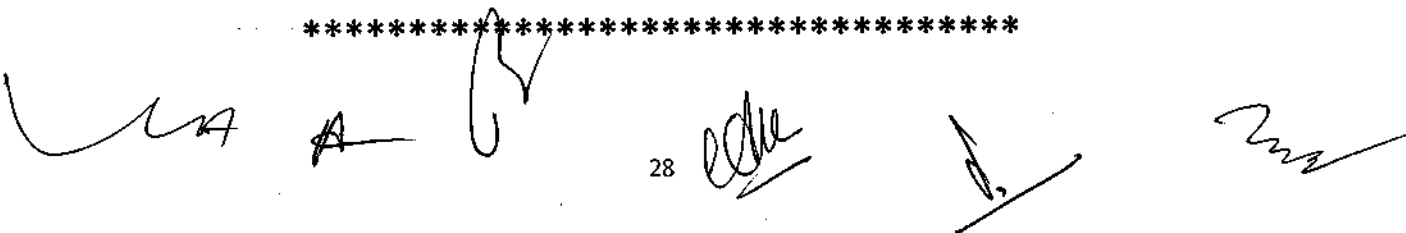
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The water required for the mining activities shall be supplied by the tanker from Garra River. The nearest distance from the applied area to Garra river is 6.90 Km in South-East direction.
- 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 |

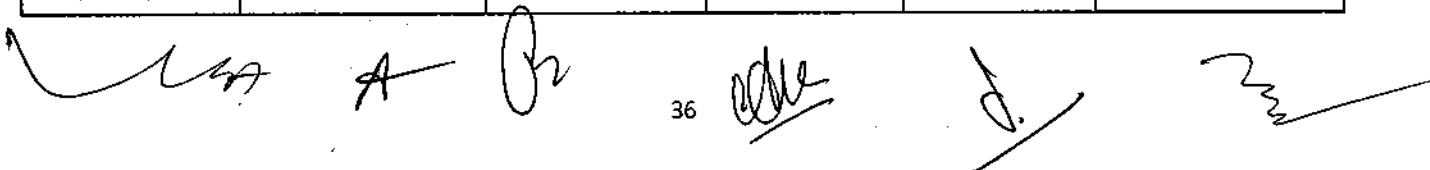
| | | |
|---|---------------------|--|
| | | situated in any ESZ. |
| 5 | DFO Forest Distance | : DFO, Giridih West Division vide letter no. 544, dated 02.06.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site. |
| 6 | DSR | : The DC-cum-District 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:

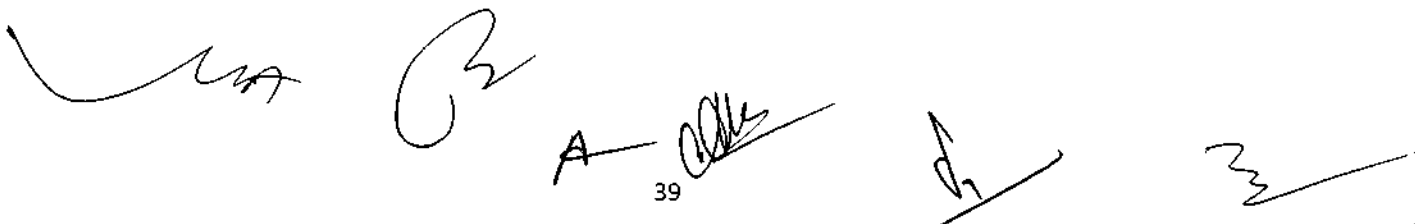
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are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

[Handwritten signatures and marks]

| | | | |
|----|----------------------|---|--|
| 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 |

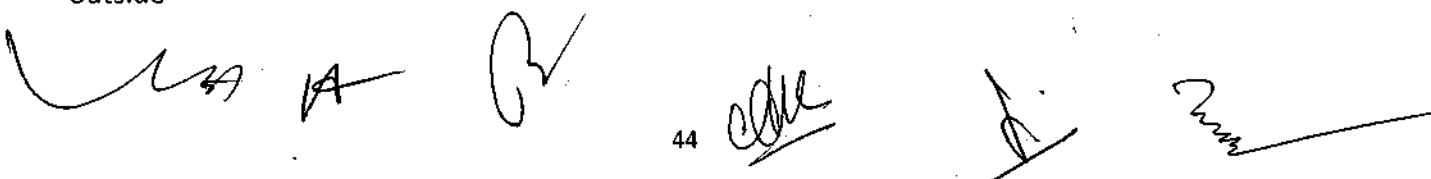
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

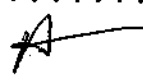
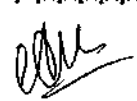
- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment 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) |

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.

- 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.

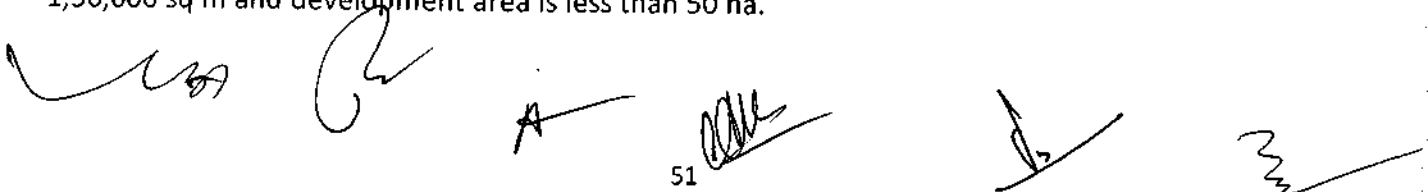
10. "Pranami Crest" of M/s Pranami Builders Pvt. Ltd., Village : Hatma, Tehsil : Ranchi Sahar, Distt. : Ranchi, Jharkhand.

(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

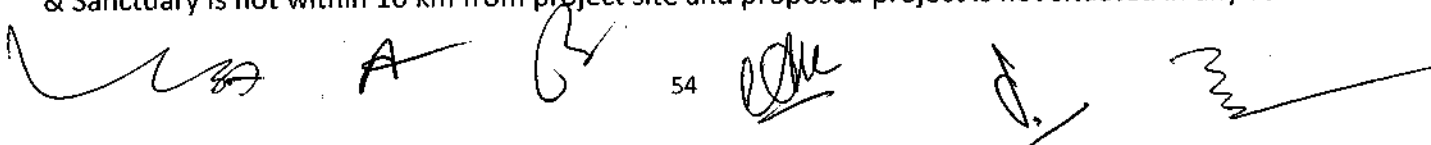
| Waste Water (KLD) | | STP Capacity (KLD) |
|-------------------|----------|--------------------|
| Domestic | Flushing | |
| 49.74 | 31.09 | 85.00 |
| 80.82 | | |

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.


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

- 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.

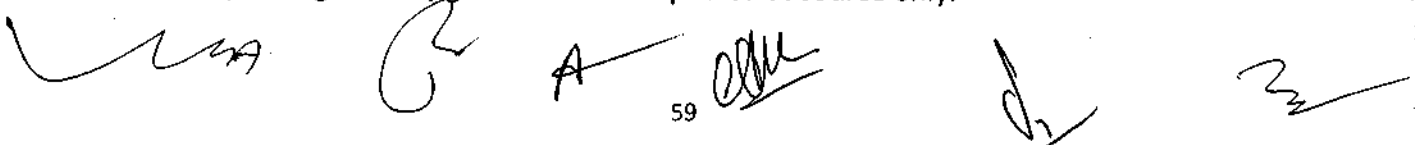
During the presentation the following documents were sought :

- 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

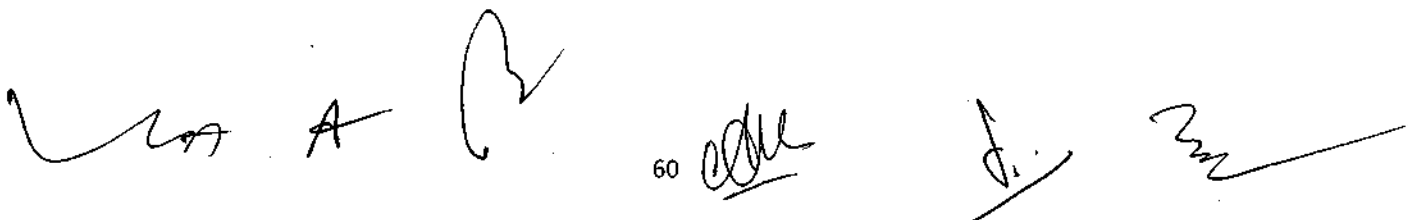
Presentation made was not as per ToR conditions. The consultant was asked to revise the presentation as per ToR conditions.

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."

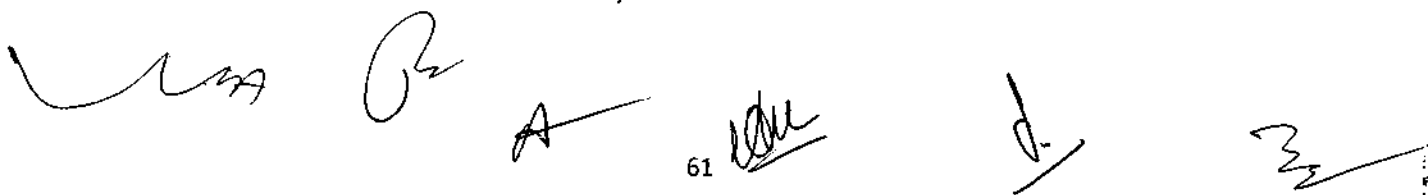
Thus, the SEIAA, Jharkhand, in the light of Ho'ble Supreme Court order dated 9th December 2021, Office Memorandum no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India and Standard Operating Procedure (SOP) issued by MoEF&CC, Govt. of India vide its file number 22-21/2020-IA-III,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

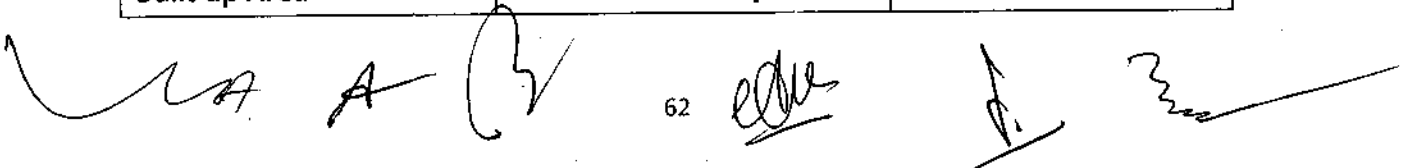


Salient Features of the Project :

| 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) | | |
|---------|-------------|------------------|----------------------------------|---------------|-------------------------|----------|--------|
| | | | Fresh | Flushing (21) | 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

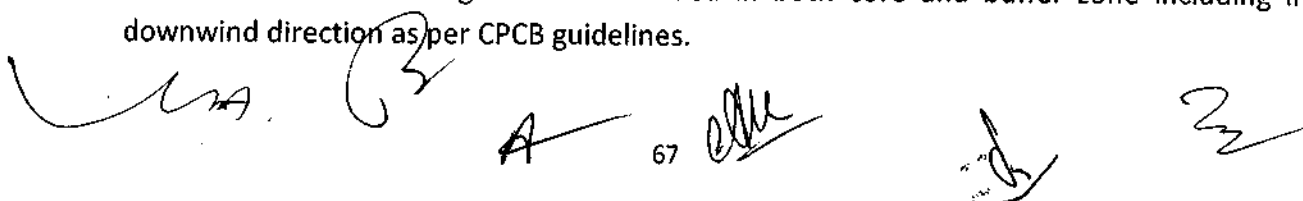
- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by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

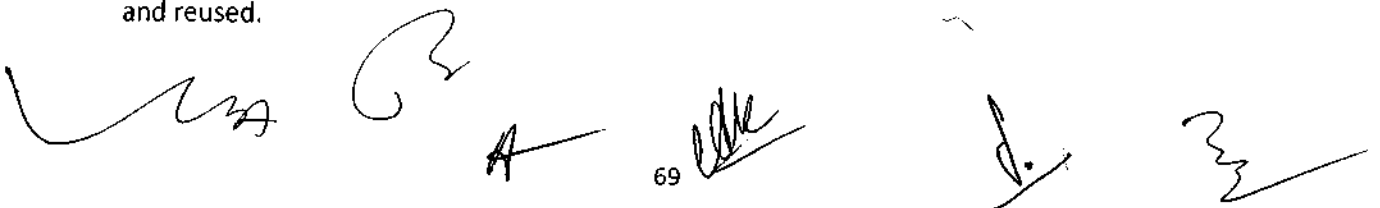
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with the Jharkhand State Pollution Control Board and evidence of the same submitted to SEIAA, Jharkhand prior to grant of EC.

- 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.

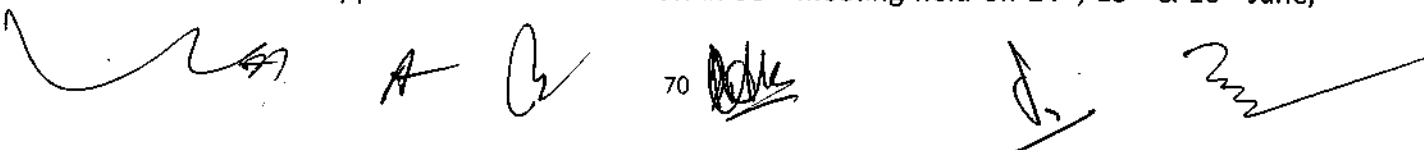
However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

"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

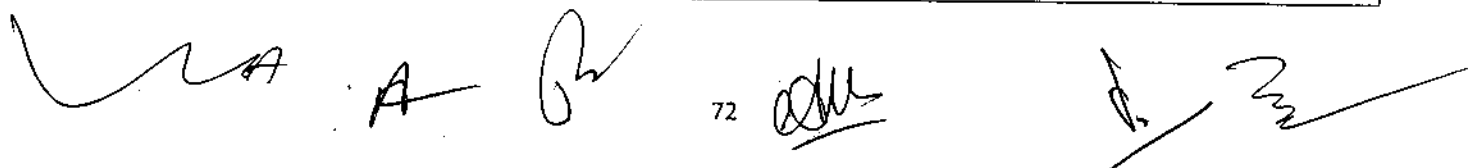
| | | | |
|---|-----------|--------------------|------------------|
| 1 | Latitude | From 23°25'01.30"N | To 23°25'05.48"N |
| 2 | Longitude | From 85°21'01.10"E | To 85°21'07.00"E |

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 |
|---|---------------|---|--|

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.

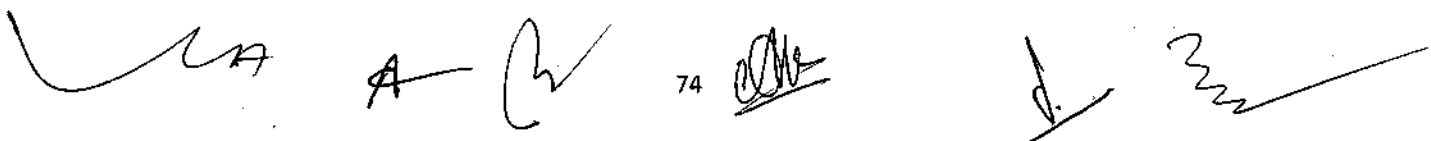
During Operation Phase

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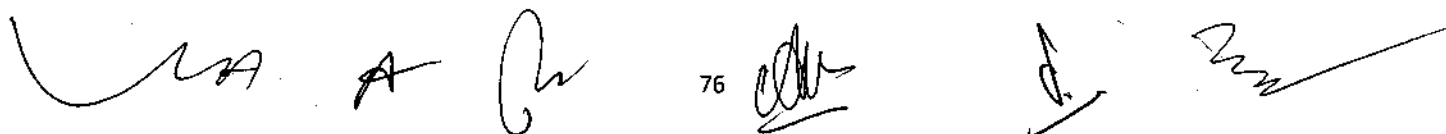
The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.

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.

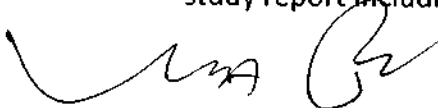
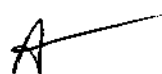
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- V. Approval / permission from CGWA shall be obtained before drawing ground water for the project activities, if applicable. Jharkhand State Pollution Control Board shall not issue Consent to Operate (CTO) until the PAs obtains such permission.
- 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).

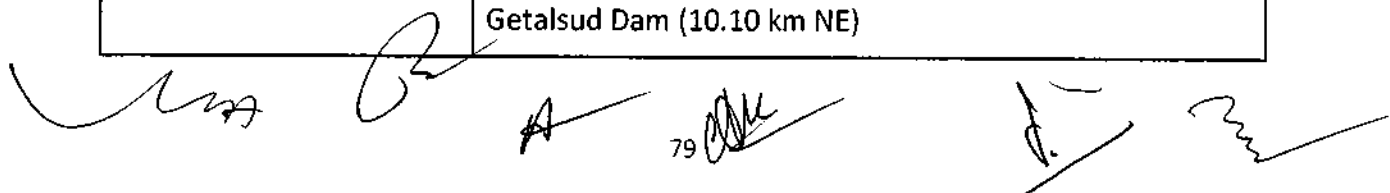
The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18-27.02.2022 and SEIAA, Jharkhand has approved the violation ToR in 94th meeting held on 13th, 14th & 15th April,

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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) |





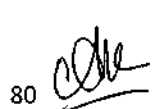

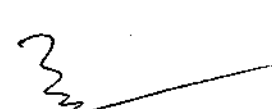
| | |
|--|--|
| | Ranchi Lake (5.66 km, N) Jumar River (4 km, NE) Subarnarekha River (4.81 km SSE) |
|--|--|

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 |
|---|---|---------------|-------------------|

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

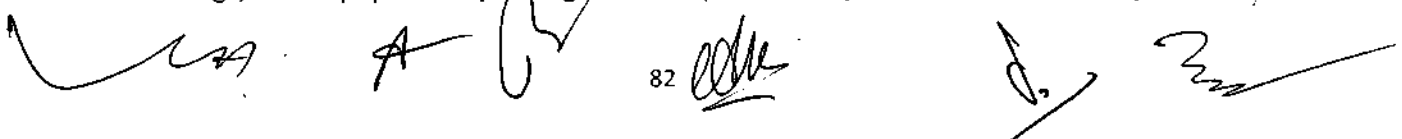
Green Belt Development

- 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


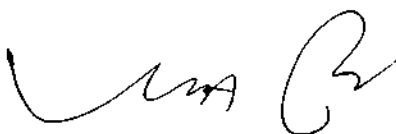
- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank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

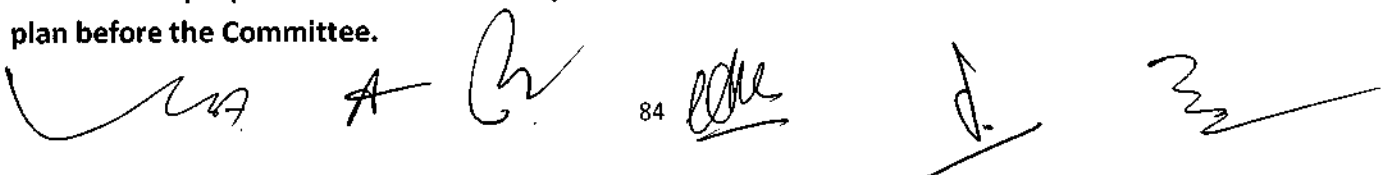
| | | | |
|---|------------------------|---|---|
| 1 | DFO Forest Distance | : | DFO, Ranchi Forest Division vide letter no. 393, dated 07.02.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site. |
| 2 | DFO Wild Life | : | DFO, Wildlife Ranchi 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.

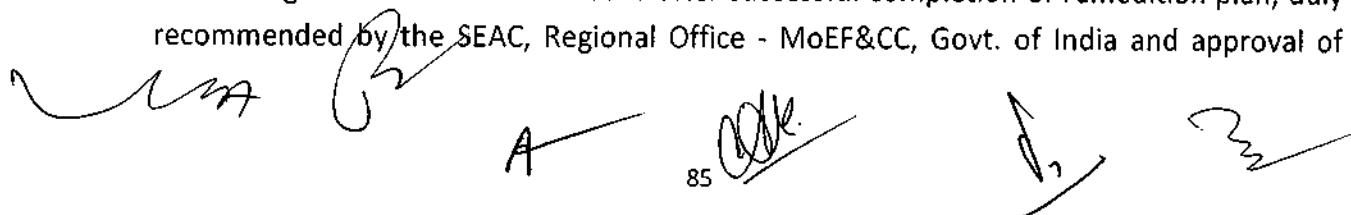
The PAs has proposed the remediation plan and natural & community resource augmentation plan before the Committee.



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 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.
- 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.
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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.

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.

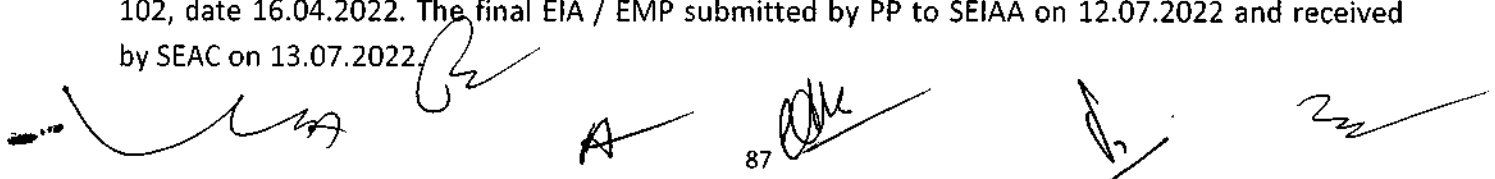
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Thus, the SEIAA, Jharkhand, in the light of Ho'ble Supreme Court order dated 9th December 2021, Office Memorandum no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India and Standard Operating Procedure (SOP) issued by MoEF&CC, 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 |

Handwritten signatures and marks are present below the table, including a large signature on the left, a signature 'A' in the middle, the number '88' in the center, and several other signatures and arrows on the right side.

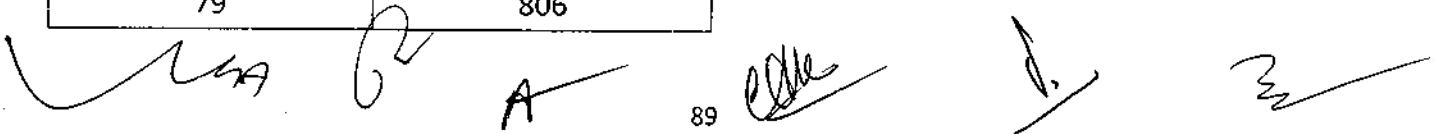
| | | |
|-----|---|--------------------------------|
| 2. | Surrendered for road widening | 209.89 |
| 3. | Net Plot Area | 7970.52 |
| 4. | Common Plot | 840.47 |
| 5. | Balance plot area (1-2-3) | 713005 |
| 6. | Permissible Ground Coverage (@50% of net plot area) | 3985.26 |
| 7. | Proposed Ground 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 |



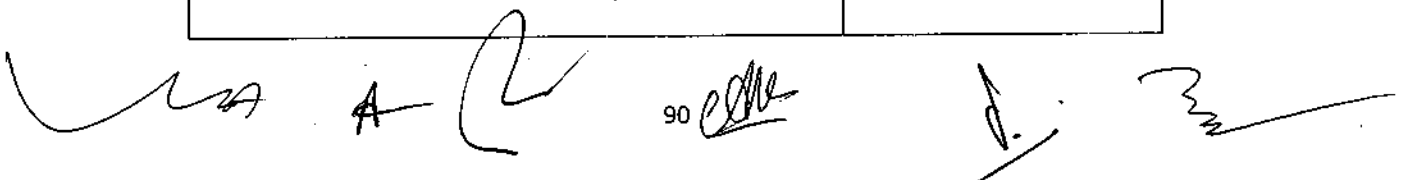
STATUTORY CLEARANCES :

| | | | |
|---|---------------------|---|--|
| 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

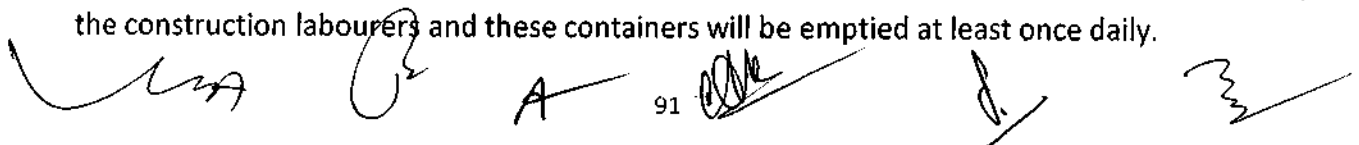
Green Belt Development

- 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

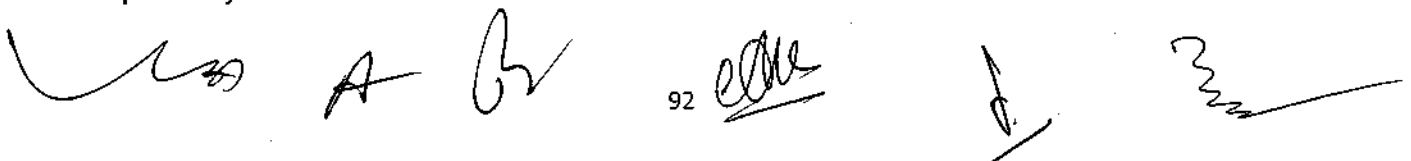
- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank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

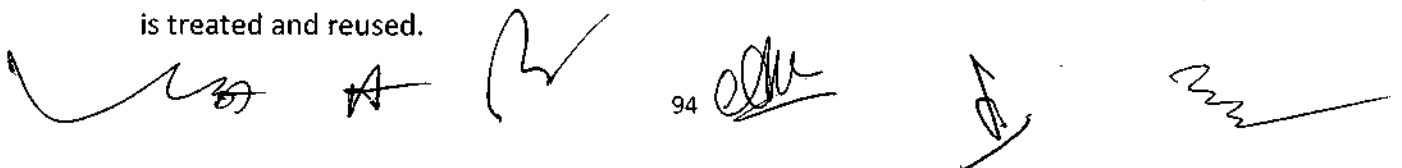

- I. The Committee visited the project site on 15.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 89.85 Lakh.
- III. Therefore, PAs shall be required to submit a bank guarantee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

 94 

- 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.

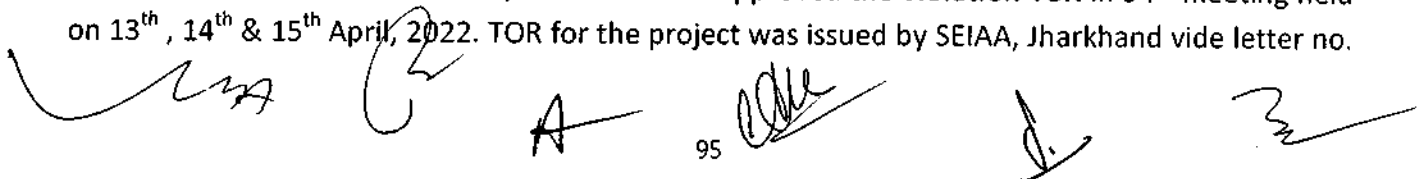
However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

"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

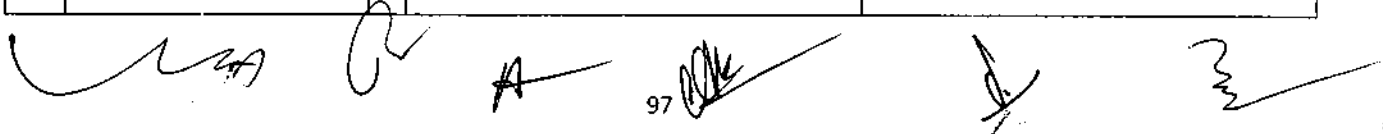
| S. No. | Description | Area (sq m) |
|--------|-------------|-------------|
| 1. | Plot Area | 10942.6 |

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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) • Proposed Coverage Area (15.86 %) • Existing Building Coverage area (18.81 %) | 3683.14 1684.99 1998.15 |
| 8. | Permissible FAR (@3.0 of plot area) | 32827.80 |
| 9. | Total FAR (@2.99 of plot area) • Proposed FAR Area • Existing Building FAR Area | 32689.17 16875.03 15814.14 |
| 10 | Non FAR Area (including Basement) • Proposed Non FAR • Existing Non FAR | 6,633.61 4,770.3 1,863.31 |
| 11. | Built-up Area • Proposed Built-up Area • Existing Built-up Area | 39322.78 21645.33 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 :

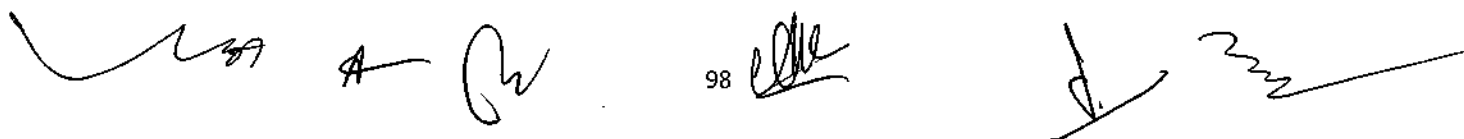
| | | Khata No. | Plot No. |
|---|-------------------------------------|-----------|--|
| 1 | Village - Argoda, Tehsil- Ranchi | 15 | 2558, 2570, 2571 & 2572 |
| | | 63 | 2564 |
| | | 188 | 2560, 2561, 2565, 2566, 2567, 2568, 2569 |

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 Khatiyon. |
| 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 | |

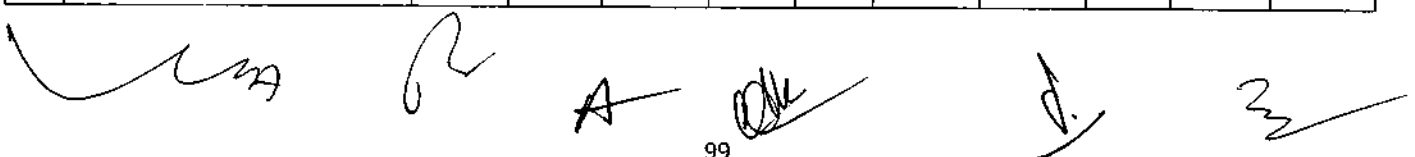


| | | | | | | | | | | | | | |
|------------------|--|--|------|----|----|----|--|----|----|----|-----|-----|----|
| | | | sq m | | | | | | | | | | |
| Total Water Req. | | | | 89 | 56 | 33 | | 74 | 52 | 22 | 163 | 108 | 55 |

| 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.

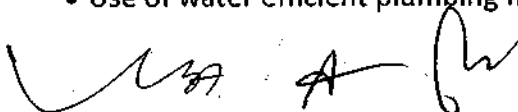
Water Quality Management

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.

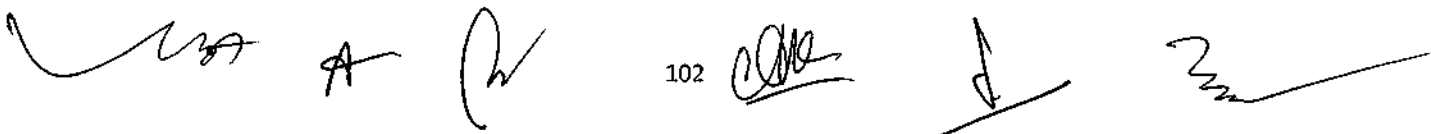
On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 6.37 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource 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



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

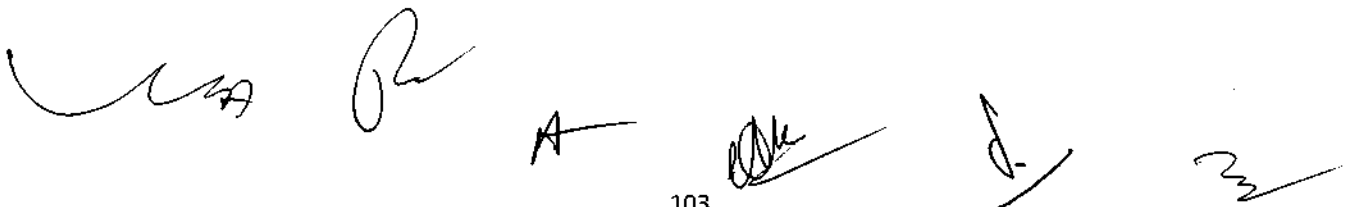
- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) 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 |

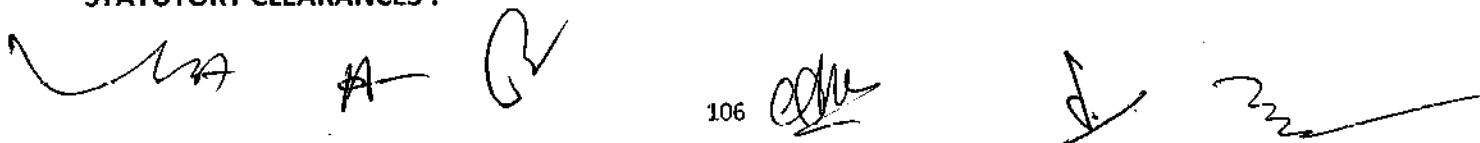
CO-ORDINATES

| | | | |
|---|-----------|------------------|---------------|
| 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.

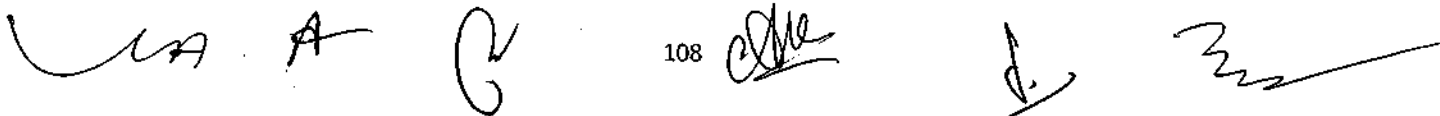
Solid Waste Management

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.


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- 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.

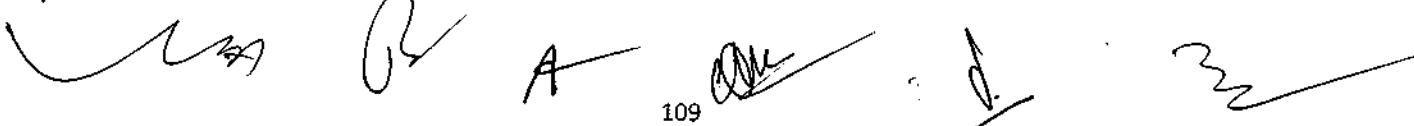
Air Quality Management

- 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.

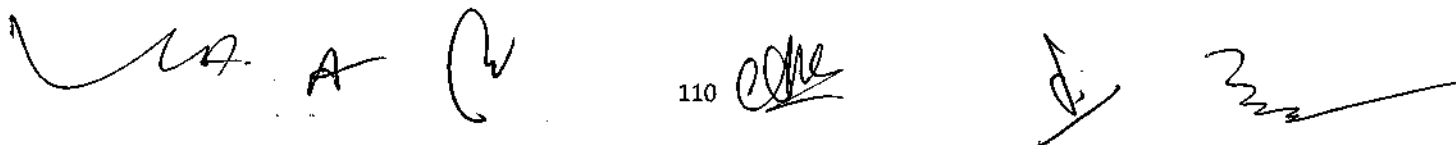


On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 53.8125 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource 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.

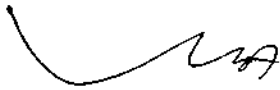

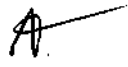



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- VI. PAs shall take necessary other clearances / permissions under various act and rules if any, from the respective authorities / departments.
- VII. STP of adequate capacity shall be established within the project premises.
- VIII. Energy conservation 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 :

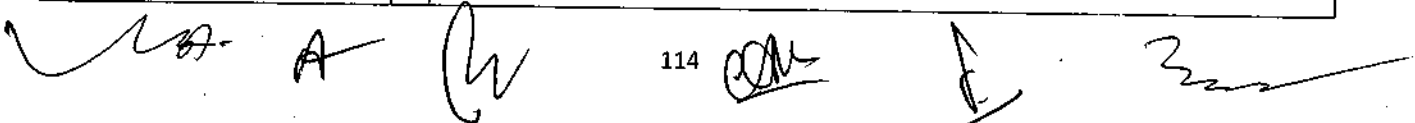
| | | | |
|---|-----------|-----------------|---------------|
| 1 | Latitude | From 23°21'11"N | To 23°21'12"N |
| 2 | Longitude | From 85°16' 4"E | To 85°16' 7"E |

LAND DETAILS :

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

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.

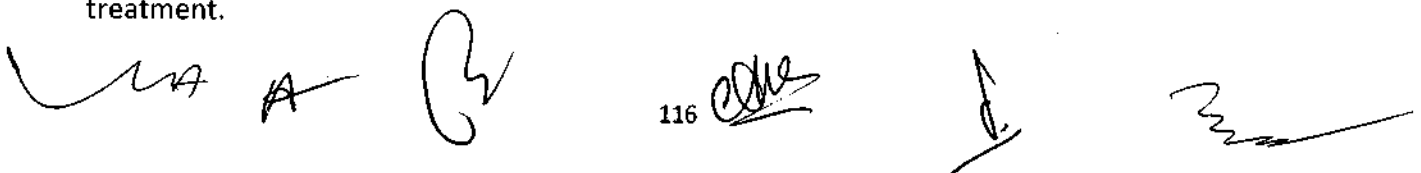
During Operation Phase

- 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.

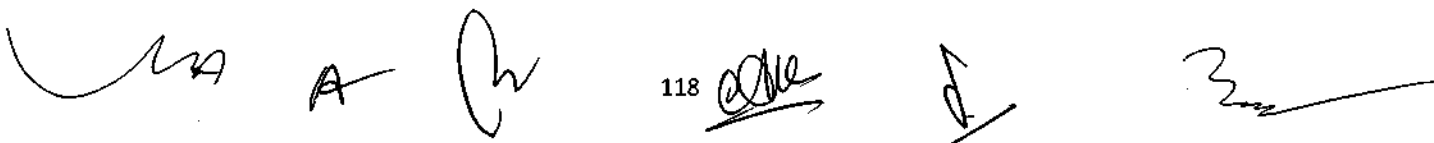
On the basis of above the State Level Expert Appraisal Committee (SEAC), Jharkhand recommended an amount of rupees 43.05 Lakh as per CPCB guidelines towards remediation plan and natural & community resource augmentation plan to be spent within a period 03 years. The details of summary of Natural resource 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.

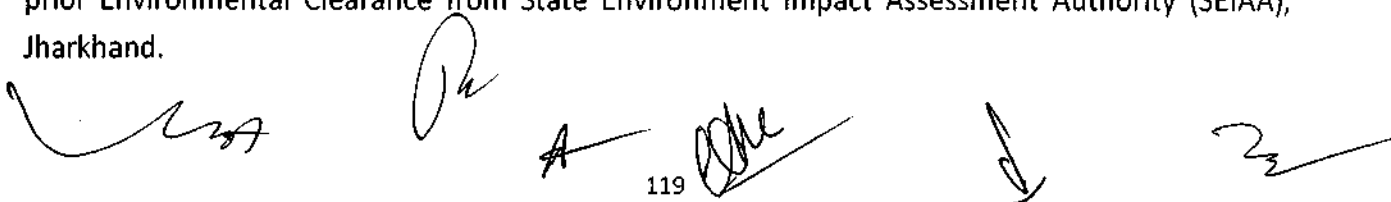
8. Affordable Housing Project “Pearl Orchid” of M/s Moti Infrastructures, Village : Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.

(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 features 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 :

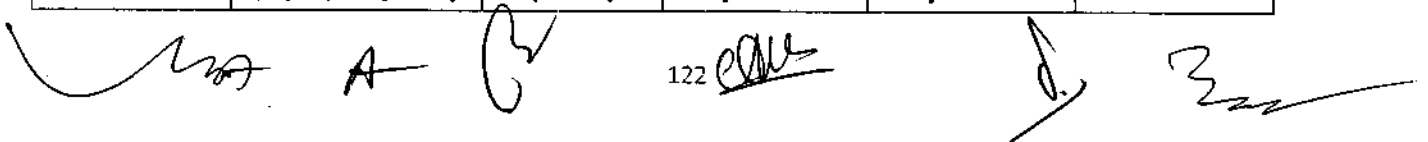
| | | | |
|---|-------------------------------------|-----------|-------------|
| 1 | Village - Argora, Tehsil- Ranchi | Khata No. | Plot no. |
| | | 73 | 1066 & 1067 |
| | | 79 | 1064 & 1065 |

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 |
|----------|---------------------------------|-----------------|-------------------|-------------------------|----------------|
|----------|---------------------------------|-----------------|-------------------|-------------------------|----------------|


 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.

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d.

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

Energy conservation

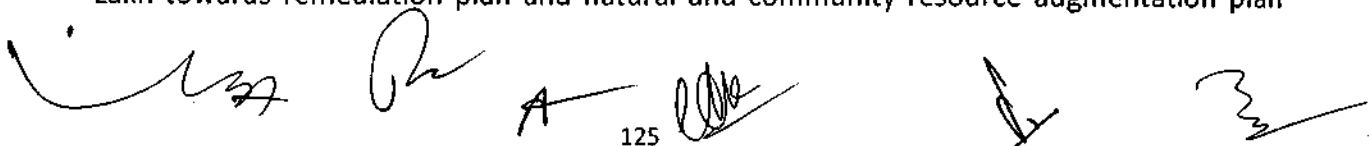
Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

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.

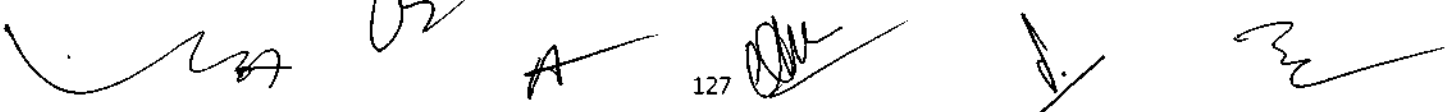
However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

"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) |
|--|---|

CO-ORDINATES

| | | |
|-------------|-------------|-------------|
| Coordinates | 23.350893°N | 85.402074°E |
|-------------|-------------|-------------|

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


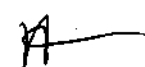

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by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

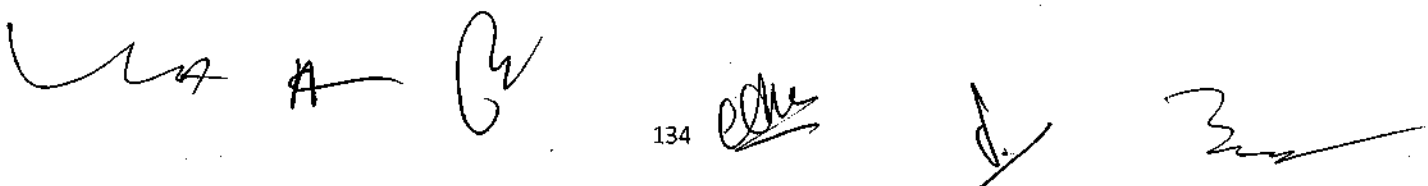
- I. The Committee visited the project site on 20.07.2022 to verify the details submitted by PAs.
- II. Total budgetary provision with respect to remediation plan and natural and community resource augmentation plan is Rs. 1,23,06,250.
- III. Therefore, PAs shall be required to submit a bank guarantee 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

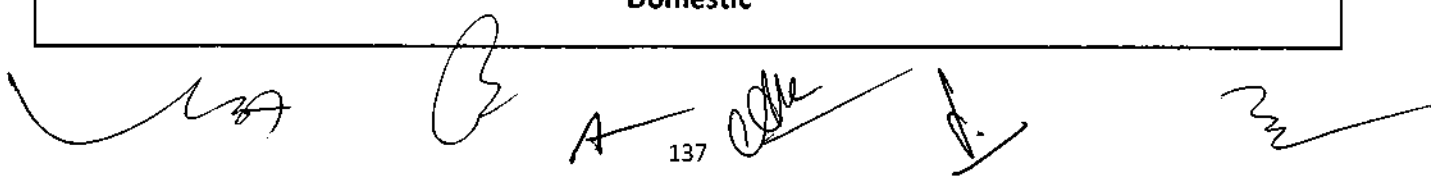
| S. No. | Description | Area (sq m) |
|--------|--------------------------------------|-------------|
| 1. | Plot Area | 10,840.15 |
| 2. | Road Widening | 129.68 |
| 3. | Net Plot Area | 10,710.47 |
| 4. | Ground Coverage (23.40%) | 2507.25 |
| 5. | FAR (@2.496) | 27060 |
| 6. | Non FAR | 8426.18 |
| 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, Shahr, 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

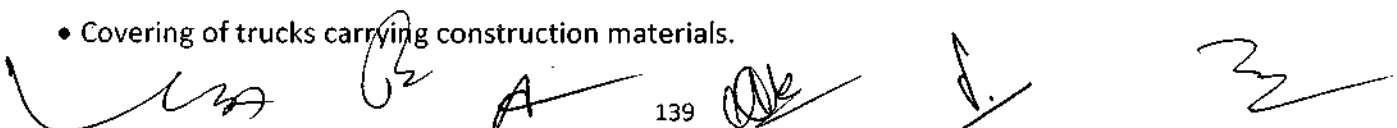
- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank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

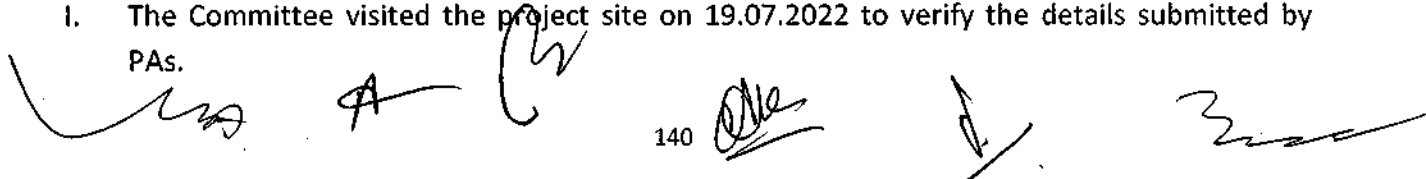
solar street lights will be provided at site.

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).

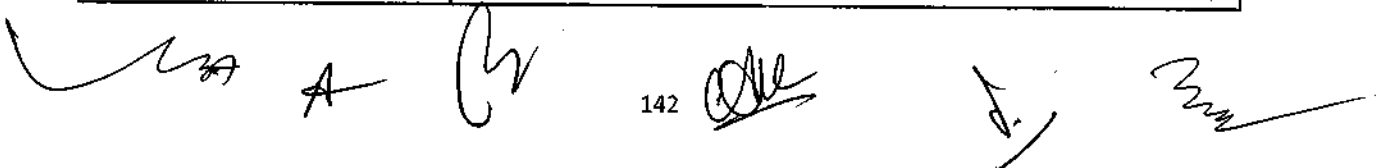
ToR Application for: Commercial buildings:Total built-up area of 57,513.87 m2




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 |
|------------|-------------|
|------------|-------------|



 A Ch 142   

| | |
|-------------------------|---|
| 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. Khatiyar & 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

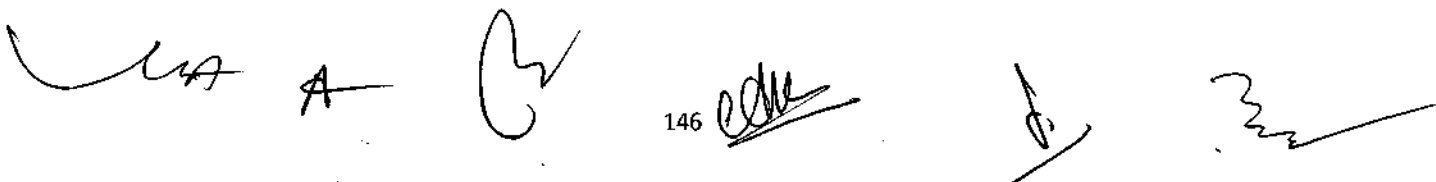
- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will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

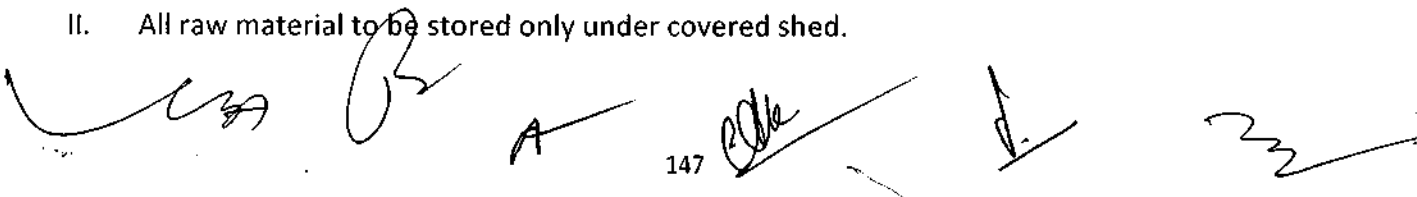
Energy conservation

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.

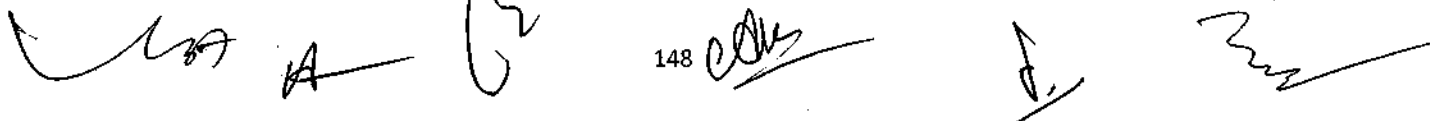
EC Application for: Production capacity: 44,660 cum/annum or 111650.00 TPA of stone

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:

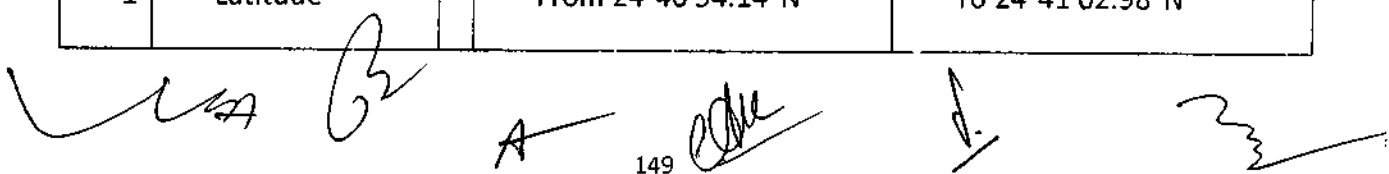
| Sl | Parameter | | Details |
|----|--------------|---|--------------------------|
| 1 | Project Name | : | Murgadanga Stone Deposit |


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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 |
|---|----------|--------------------|------------------|



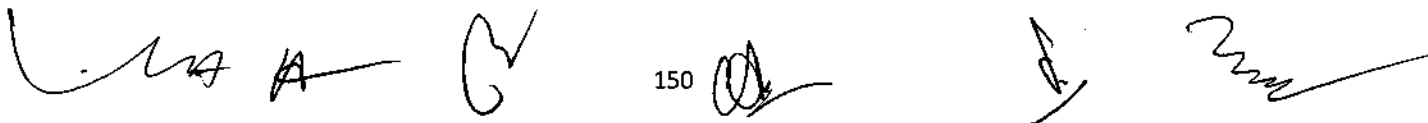
| | | | |
|---|-----------|--------------------|------------------|
| 2 | Longitude | From 87°46'01.61"E | To 87°46'11.07"E |
|---|-----------|--------------------|------------------|

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) |
|---|----------------|---|--|

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 |

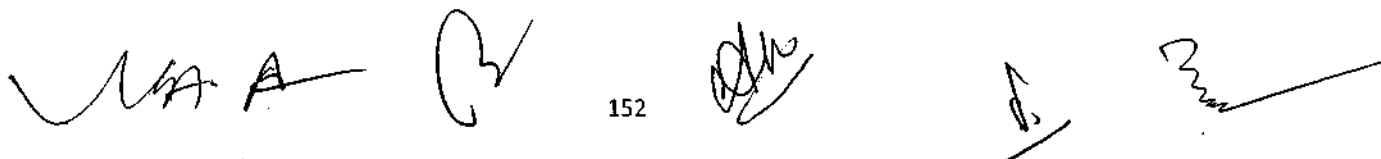
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

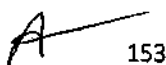
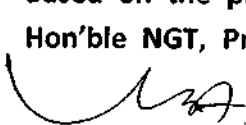
Air Quality Management

- 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 | | | |
|--|------|--|--|--|

- 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

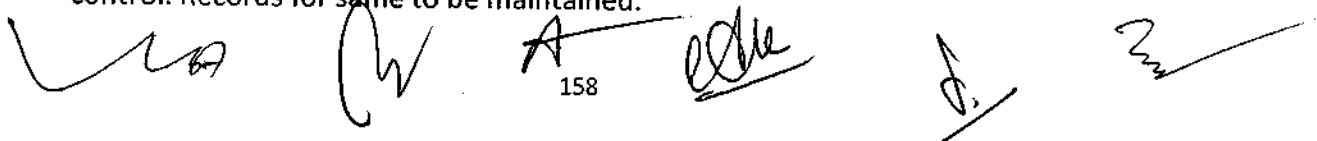
- Waste Generation will be 15950.10Cu.M. (in-situ), 19937.63 cum (loose) and 16946.98 cum (compact) during the life of Mine. Dump area proposed for waste storage is 0.384 ha. which shall be temporarily dump on south eastern corner of the applied lease area. The Waste shall be removed which will be used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

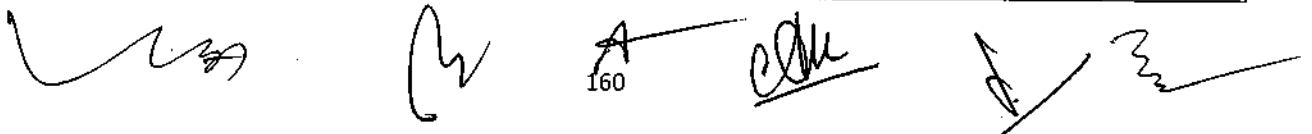
EC Application for: Production capacity: 112450 TPA or 44,980 cum/annum Waste: 11310.00 cum

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 |

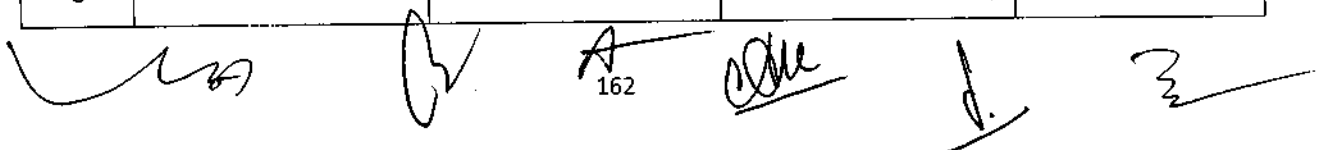
| | | | |
|---|--------------------|---|--|
| | | | / protected forest from the project site is more than 250 M. |
| 6 | DSR | : | The DC-cum-District Magistrate, Pakur vide letter no 878/M dated 21.06.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly 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 :

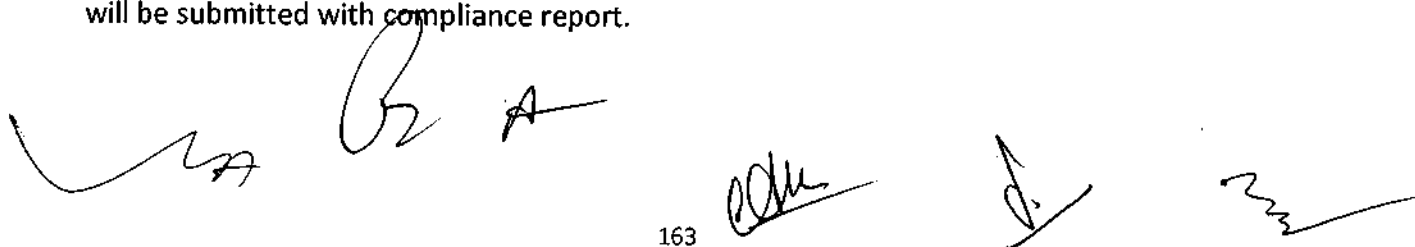
| Pattern of Utilization | Existing (Ha) | Plan period (Ha) | Conceptual stage (Ha) |
|------------------------|---------------|------------------|--|
| Quarry | Nil | 1.011 | 1.640 (0.101 ha area shall be backfilled & after backfilling entire area will be converted into water reservoir) |
| Road | 0.011 | 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.

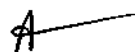
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

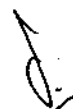
Undertaking submitted affirming:

- 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 |

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| | | | |
|-------------------------|--------------|-------------------------------|-------------------------------|
| 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

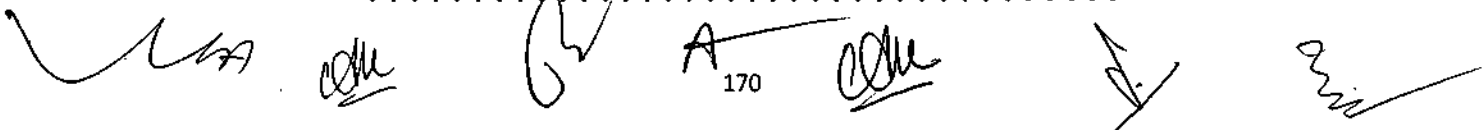
Undertaking submitted affirming:

- 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.

A series of handwritten signatures and initials in black ink, including a large stylized 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. |
|----|-----------------|---|--|

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

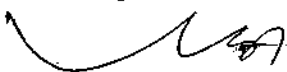
- Waste Generation will be 2700.0 cum during the plan period. During plan period the proposed waste shall be temporarily dump on western side of the applied area.

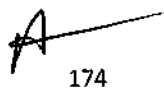
Water Quality Management

- 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.

6. Hathigarh Stone Mine of M/s Pakur Stone Production (Prop. : Shri Uday Kumar Singh), Village : Hathigarh, Thana no. : 03, Dist. : Pakur, Jharkhand (2.76 Ha).

(Proposal No. : SIA/JH/MIN/ 283054/2022)

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 36432 cum/annum or 1,02,010 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 | : Hathigarh Stone Mine | |
| 2 | Lessee: | : M/S Pakur Stone Production (Prop.- Shri Uday Kumar Singh) | |
| 3 | Lease Address | : Village – Hathigarh Thana- Thana No- 03 District- Pakur, State :- Jharkhand. | |
| 4 | Lease Area | : 2.76 ha | Acres- 6.81 Acres |
| 5 | Type of Land | : Non Forest – Raiyati Land | |
| 6 | Project Cost | : Rs 30 Lakhs | |
| 7 | EMP Budget | : Capital: 4.85 Lakhs | Recurring: 4.17 Lakh / year |
| 8 | CSR / CER Budget | : Rs. 0.60 Lakhs | |
| 9 | New or Expansion | : New | |
| 10 | Mineable Reserves | : Cu.m.: 3,66,696.07 cu.m | Tonnes: 10,26,749 tons |
| 11 | Mine Life | : 10 years | |
| 12 | Man power | : 35 | |
| 13 | Water Requirement | : 13.20 KLD (Drinking: 0.35 KLD, Dust Suppression: 5.76 KLD, Plantation: 7.05 KLD) | |
| 14 | Water Source | : From Nearby villages by tankers | |
| 15 | DG Set / power | : 7 KVA | |
| 16 | Crusher | : crusher | |
| 17 | Nearest Water Body | : Torai Nadi, 4.80 km, S direction. Gumani Nadi 9.50 km, N direction. | |
| 18 | Nearest Habitation | : Hathigarh, 0.60 km | |
| 19 | Nearest Rail Station | : Pakur Railway station, approx. 18.0 km | |
| 20 | Nearest Air Port | : Deoghar International Airport, Deoghar approx. 108.0 km. | |
| 21 | Nearest Forest | : Protected Forest near Guma Pahar, Approx. 5.50 km. in NW direction. Protected Forest near Chhota Kendua village, Approx. 1.50km. in ENE direction. | |

| | | |
|----|-----------------|--|
| | | 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 |

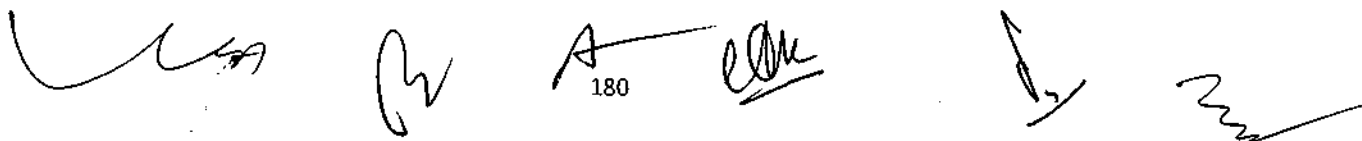
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

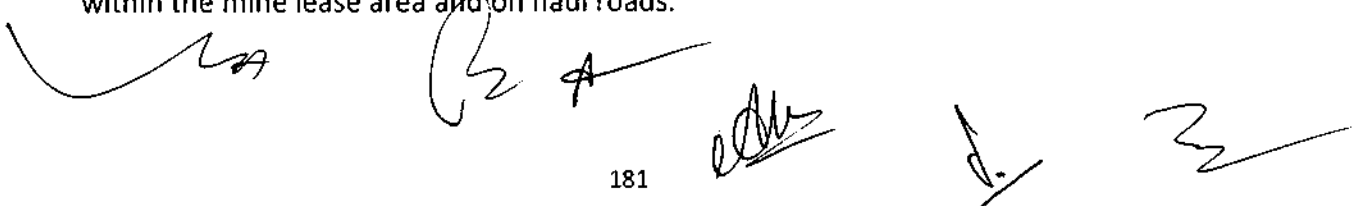
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

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.



- 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 Hathigarh Stone Mine of M/s Pakur Stone Production (Prop. : Shri Uday Kumar Singh), Village : Hathigarh, Thana no. : 03, Dist. : Pakur, Jharkhand (2.76 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

7. Rajbandh Stone Deposit of M/s Jial Das & Company, Village : Rajbandh, Thana : Pakur, Dist. : Pakur, Jharkhand (1.554 Ha).

(Proposal No. : SIA/JH/MIN/79200 /2022)

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity- 38,550 cu.m/annum or 104085 TPA

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

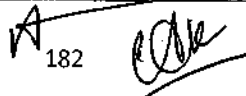
This is a new project which has been taken for appraisal on 18.07.2022

Project and Location Details:

| Sl | Parameter | Details |
|----|-------------------|---|
| 1 | Project Name | : Rajbandh Stone Deposit |
| 2 | Lessee: | : M/s Jial Das & Company Partner - Sri. Sumit Sadhwani, S/o Late Subhash Chandra Sadhwani At Village- Sindhipara, Thana- Pakur, District- Pakur, Jharkhand |
| 3 | Lease Address | : Village – Rajbandh, P.S.- Pakur(M), District – Pakur, State :-Jharkhand. |
| 4 | Lease Area | : 1.554 ha Acres- 3.84 Acre |
| 5 | Type of Land | : Non Forest – Raiyati Land |
| 6 | Project Cost | : Rs. 25 Lakhs |
| 7 | EMP Budget | : Capital: 5.03 Lakhs Recurring: 3.27 Lakh / year |
| 8 | CSR / CER Budget | : Rs. 0.50 Lakhs |
| 9 | New or Expansion | : New |
| 10 | Mineable Reserves | : Cu.m.: 3,78,900 cum Tonnes: 10,23,030 tons |
| 11 | Mine Life | : 9.97 or 10 years |
| 12 | Man power | : 25 |





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| | | | |
|----|----------------------|---|--|
| 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

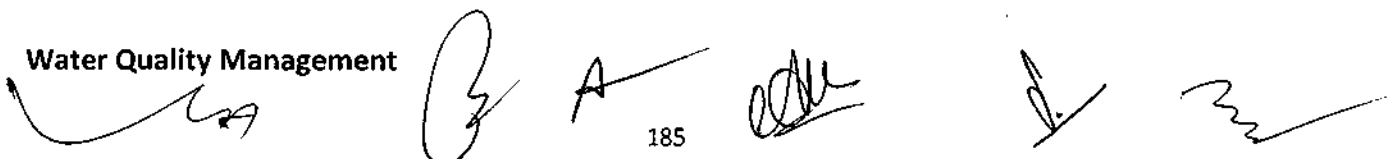
| S. No. | LOCATION | Area/Length | No of Trees |
|--------|---------------------|-------------|-------------|
| 1 | Safety Zone | : 0.627 ha | 1570 |
| 2 | Haul /Approach Road | : 0.42 km | 420 |

- 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 |

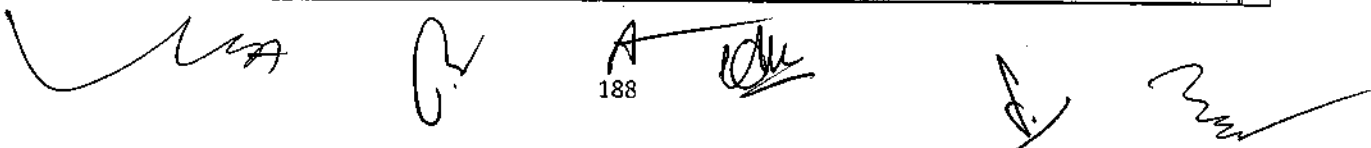
| | | | | |
|----|----------------------|---|---|--------------------------|
| 4 | Lease Area | : | Ha: 2.58 ha | Acres: 6.37 Acres |
| 5 | Type of Land | : | Non Forest – Rayati Land | |
| 6 | Project Cost | : | 35 Lakhs | |
| 7 | EMP Budget | : | Capital: 4.71 Lakhs | Capital: 3.27 Lakhs |
| 8 | CSR / 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. Khatiyon & 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 |
|---|---------------------|---|----------|-----|

- 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

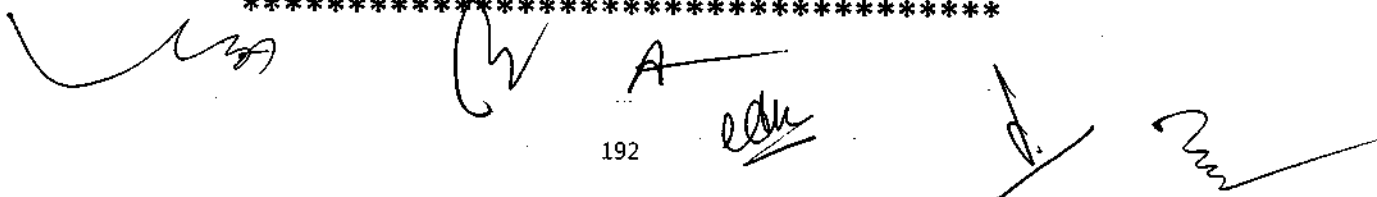
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- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done 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 :

| Sl | Parameter | | Details |
|----|-------------------|---|--|
| 1 | Project Name | : | Basmata Stone Deposit |
| 2 | Lessee: | : | M/s New Muskan Stone Works, Partner's- Sri Mahubul Shaikh & Others, S/o Late Almesh Shaikh, at Village & P.O. – Sitapahari, P.S. – Pakur, District – Pakur, State – Jharkhand |
| 3 | Lease Address | : | Village – Basmata, P.S. – Pakur, District – Pakur, Jharkhand |
| 4 | Lease Area | : | Ha: 2.67 ha Acres: 6.60 Acres |
| 5 | Type of Land | : | Non Forest – Rayati Land |
| 6 | Project Cost | : | 35 Lakhs |
| 7 | EMP Budget | : | Capital: 6.94 Lakhs Capital: 6.94 Lakhs |
| 8 | CSR / CER Budget | : | Rs. 0.70 Lakhs |
| 9 | New or Expansion | : | New |
| 10 | Mineable Reserves | : | Cu.M.: 451050 Cu. M. Tonnes: 1127625.0 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

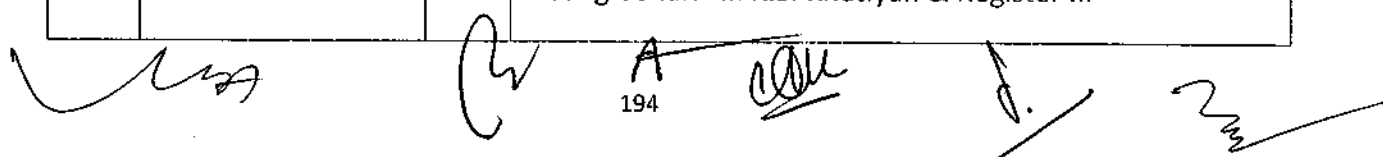
| | | | | |
|---|-----------|--|--------------------|------------------|
| 1 | Latitude | | From 24°34'53.40"N | To 24°35'00.10"N |
| 2 | Longitude | | From 87°50'56.58"E | To 87°51'06.35"E |

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 |
|----|-------------------------|---|---------|

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 | | | |
|--|------|--|--|--|

- 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

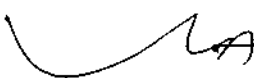

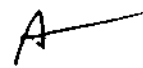



- Waste Generation will be 11040.00 Cu.M. during the life of Mine. Proposed waste shall be temporarily dump on eastern side. The Waste shall be removed which will be used in maintenance of mine road and village road.

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 |
|------|---------------------------|-------------------------------------|------------------------|--------------------|
|------|---------------------------|-------------------------------------|------------------------|--------------------|

| | | | | |
|-----------------|------------------|------------------|-----------------|------------------|
| 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

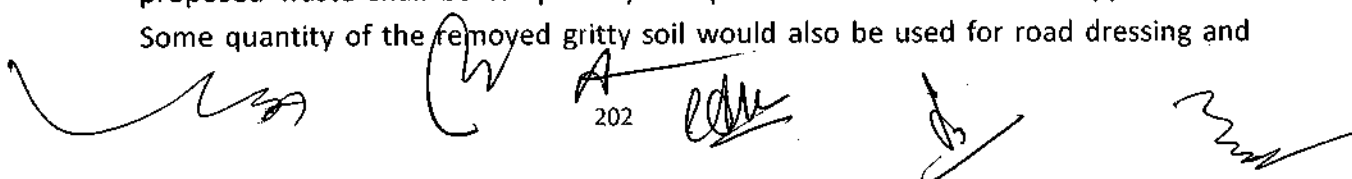
Green Belt Development

| 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



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

Water Quality Management

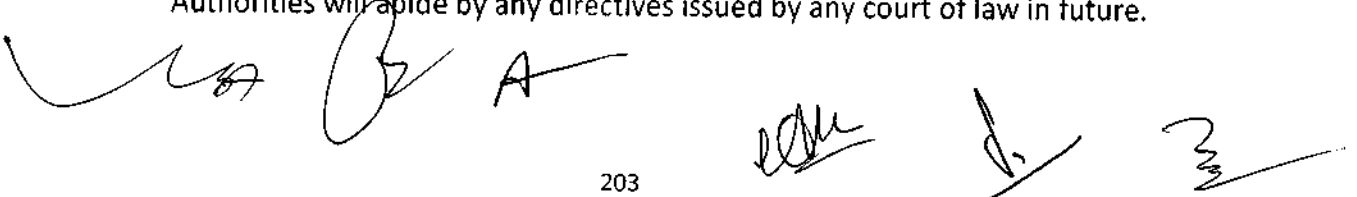
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall 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).

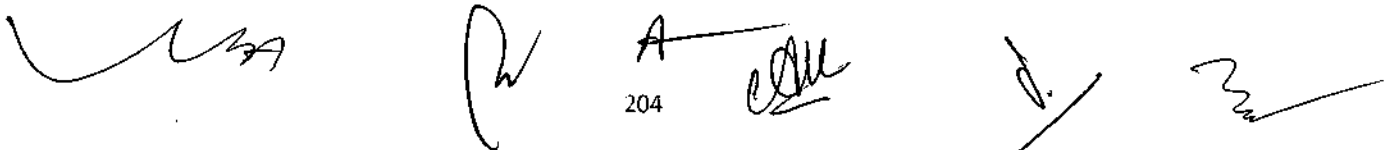
(Proposal No. : SIA/JH/MIN/ 66683/2021)

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



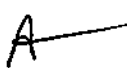



| | | | |
|---|-----------|--------------------|------------------|
| 1 | Latitude | From 24°41'11.11"N | To 24°41'18.06"N |
| 2 | Longitude | From 87°45'48.66"E | To 87°45'56.06"E |

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 |
|---|--------------------|---|--|

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 :



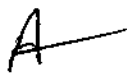



| | | | |
|---|----------------|---|--|
| 1 | LOI/Lease docs | : | The Letter of Intent (LOI) has been issued by District Mining Office, Pakur vide letter no. 1088/M dated 08.07.2021. |
| 2 | CO | : | The CO, Hiranpur vide letter no. 95, dated 26.02.2021 has mentioned the plot nos. of the project is 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.

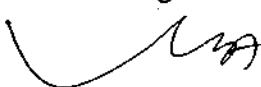
Water Quality Management

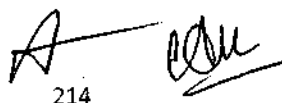
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall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

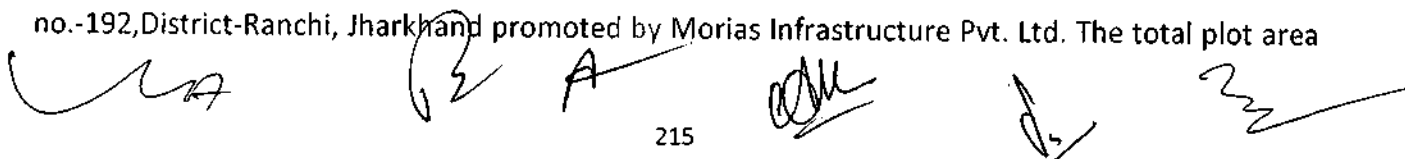
13. "Sky Dale " Residential Housing Complex of M/s Morias Infrastructure Pvt. Ltd., Village : Morabadi, Thana : Bariatu, Thana no. : 192, Distt. : Ranchi, Jharkhand.

(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 |

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| | |
|------------------------------|---------------------------------------|
| 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 initials]

| | | | | |
|----|--------------------------------|--|---------------|----------------------------------|
| 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 |

| | | | |
|----------|---|------------------------|---------|
| 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

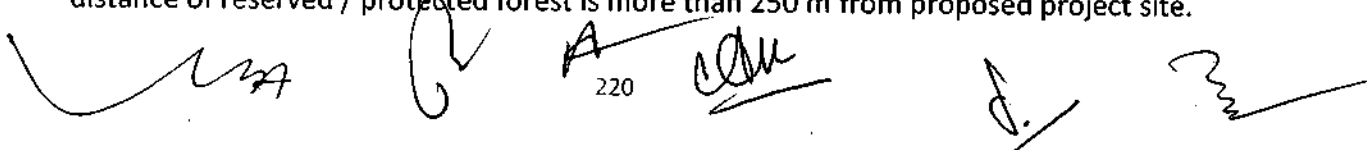
| Particulars | Population | Basis | Quantity of waste generated (in kg/day) |
|--------------|------------|------------------|---|
| Residential | 1125 | @ 0.5 kg/day | 562.5 |
| Staff | 50 | @0.25 kg/day | 12.5 |
| Visitors | 113 | @0.15 kg/day | 16.95 |
| Landscaping | 0.27 Acre | @0.2 kg/acre/day | 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. |

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| | | | |
|----|-----------------------------|-------------------------|--------------------------|
| | 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 |
|--------------|-----------------|----------------|-----------------|

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 Khatiyani.
- 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 |
|--------------|--|--|-------------------------------|

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:

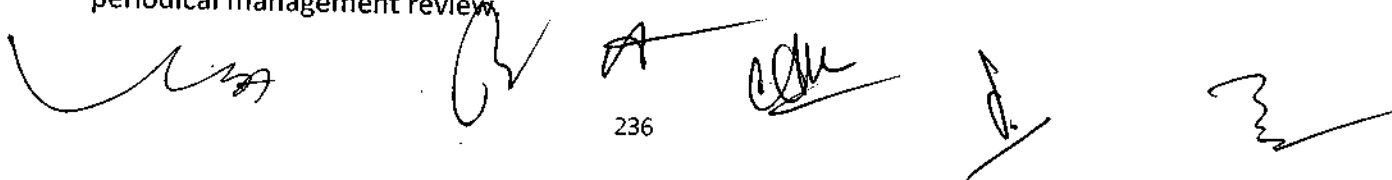
- Use of local building material to reduce pollution & transportation energy.
- All the pumps shall have minimum efficiency as per ECBC norms
- Energy efficient building envelope-use of fly ash bricks/AAC blocks for external walls Insulation to roof.
- Programmable switching arrangement for external 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. |

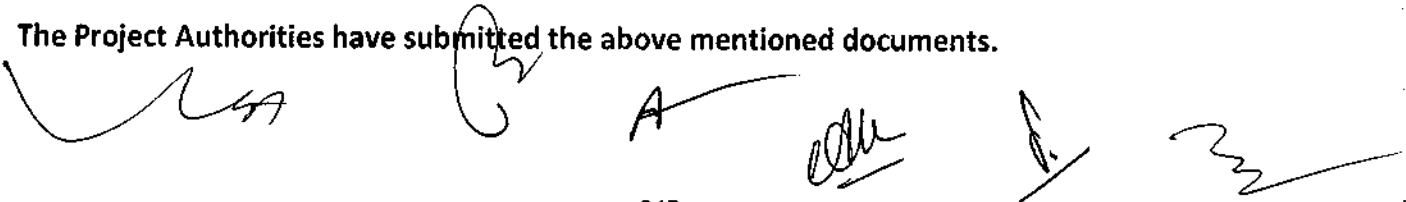
STATUTORY CLEARANCES :

| | | | |
|---|---------------------|---|---|
| 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.

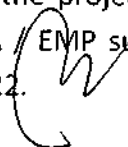
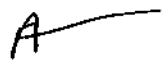
**18. Modification cum Expansion of existing Re-Rolling Mill of M/s Saluja Steel & Power (P) Ltd.,
Mouza : Mohanpur, P.S. : Mahtohdih, Dist. : Giridih, Jharkhand.**

(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 / |

[Handwritten signatures and marks]

| | | | |
|--|--------------|-----------|-------------------|
| | | | 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 –

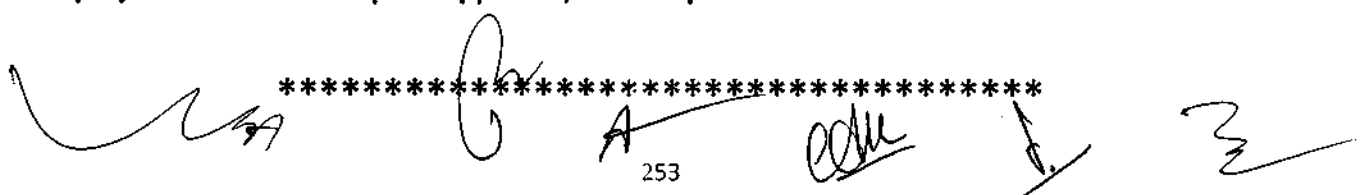
- i. Certified copy of CTO compliance from JSPCB is to be provided.
- ii. Receipt copy of application for withdrawal of ground water from competent authority for expansion project.

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. |
|--|------------|

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. |
|---|----|---|--|

[Handwritten signatures and initials are present below the table, including a large signature on the left and several initials on the right.]

| | | | |
|---|---------------------|---|--|
| 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 –

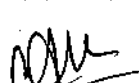
- I. Contour Plan of project site not provided.
- II. Site specific photographs.
- III. Soil map & soil characteristic data not provided.
- IV. Seismic map of project site not provided.
- V. Site selection criteria to follow CPHEEO manual and certified by competent authority.
- VI. Overlay map of all 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

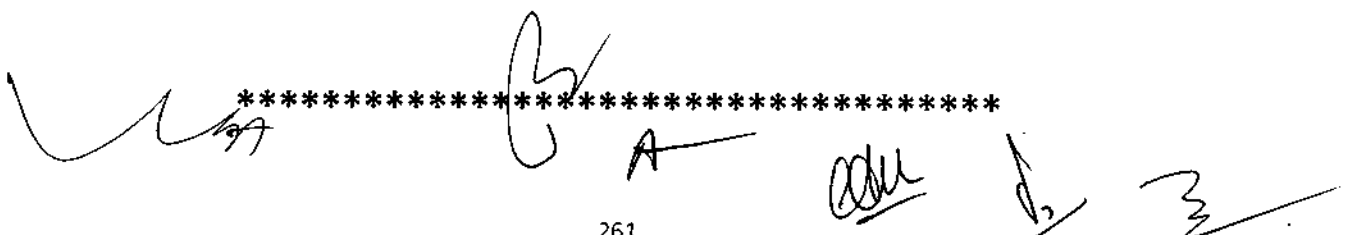
- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically toreduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

- 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.

A series of handwritten signatures and initials in black ink, including a large stylized signature on the left, a signature with a large 'B' above it, and several smaller signatures and initials on the right.

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 |
|---|--------------------|---|---|

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.

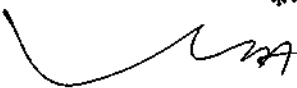
Air and Noise Pollution Control Measures:

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.



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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

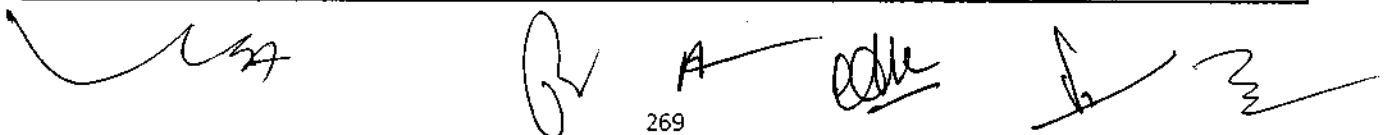
Project details:

| 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 | |
|-----|------|---|--|--|

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) |
|----|-------------------------|---|------------------------------|

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

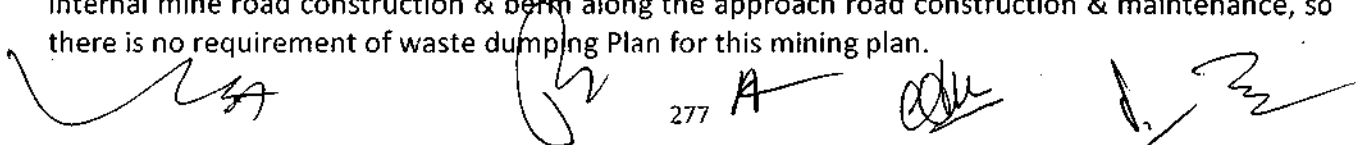
Green Belt Development

| 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.



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 (Sq.m.) |
|------------------------------------|------------------|
| 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 |

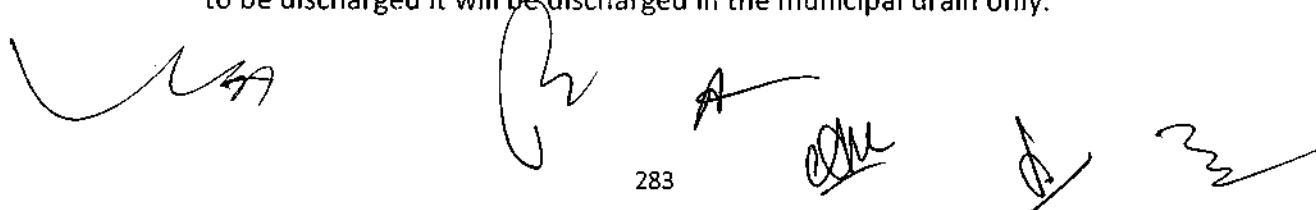
| | | | | | | | | | |
|------------------------|---|---------------|-----|-----|--|--------|------|--------|--------|
| 3 | Shop | 3 | 6 | 18 | 45 (25+20) | 1 | 0.45 | 0.36 | 0.72 |
| 4 | Community Hall | 1 | 250 | 250 | 45 (25+20) | 11 | 6.25 | 5 | 10 |
| 5 | Visitors (15% of the residential population) | ... | ... | 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.

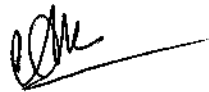



- b. During construction ground water will not be used and in case if it is required then proper NOC will be obtained from the competent authority.
- c. 15% of the green belt will developed on the site.

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).

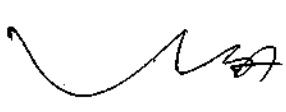


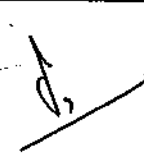

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 94th meeting held on 10-14.05.2022 and SEIAA, Jharkhand has approved the violation ToR in 95th meeting held on 14th, 15th & 16th June, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 130, date 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 |
|---|---|--------------------|---------------------------|

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 Khatiyar. |
| 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.

Handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, a signature with 'A' above it, a signature with '290' below it, and several other signatures on the right.

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 |

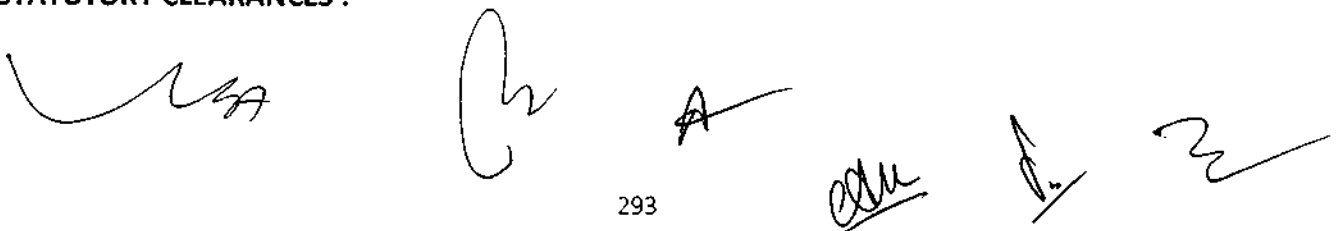
CO-ORDINATES :

| | | | |
|---|-----------|--------------------|------------------|
| 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 |
| | 54 |

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 :-

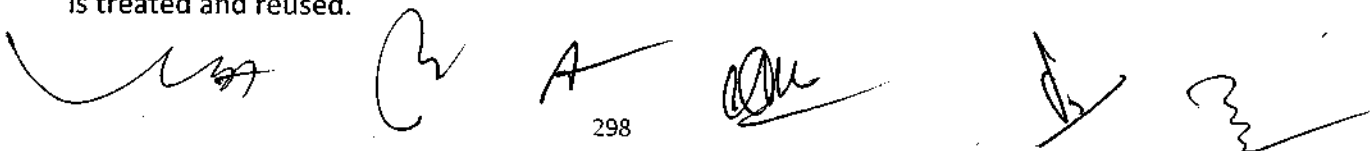
| Sr. No. | Major Environment | Details | Cost Rs in Lacs |
|-------------------------------|----------------------------|--|-----------------|
| 1 | Air Environment | Maintenance of Road to Nearby Area | 8.00 |
| 2 | Water Environment | Maintenance of natural water stream | 8.00 |
| 3 | Soil Environment | 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 :

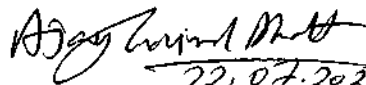
- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto 20%) 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.

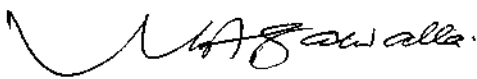


- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures 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

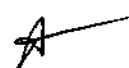

 22/7/22
 (Dr. Kirti Avishek)
 Member

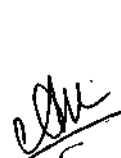

 (Srikant Verma) 22/7/22
 (Secretary)


 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.

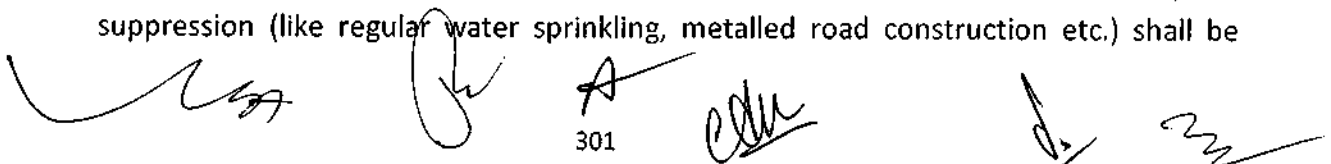
"The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

- 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.

- 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

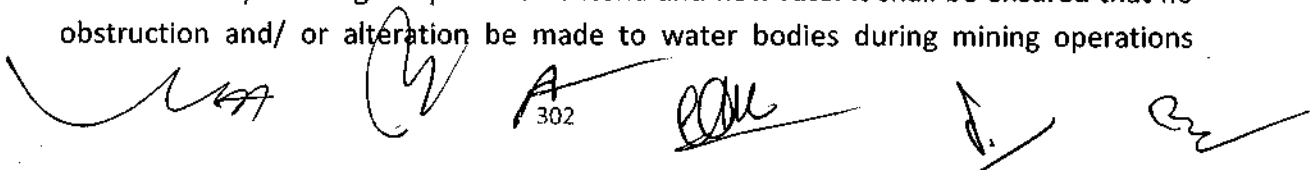
- i. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor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

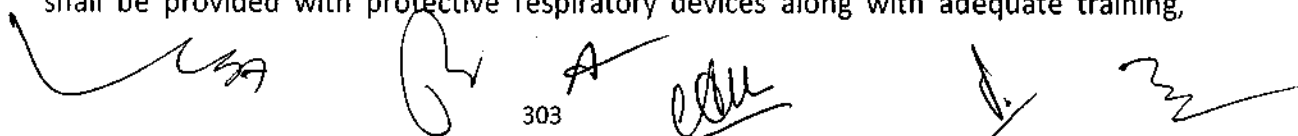
- i. In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that 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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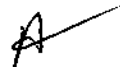
- per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- iii. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
 - iv. 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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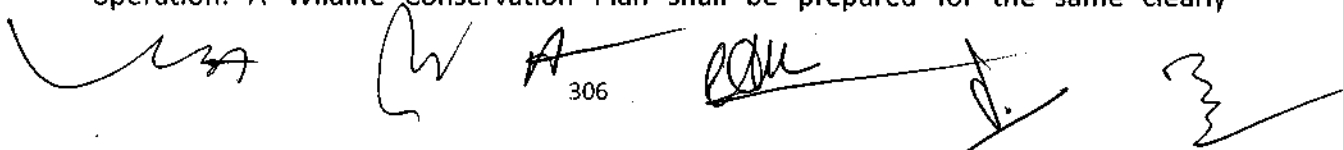


roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling 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

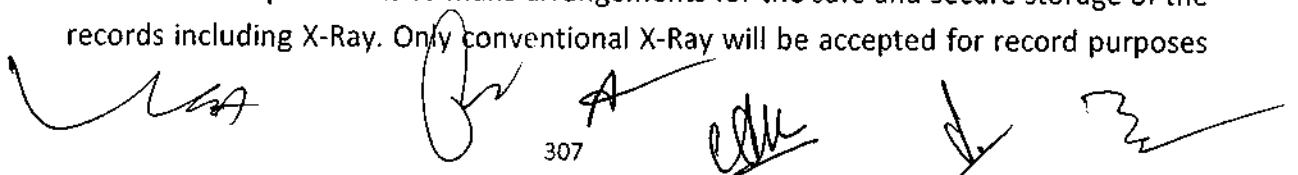
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delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.

- 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



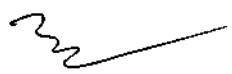
- and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- iv. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (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.

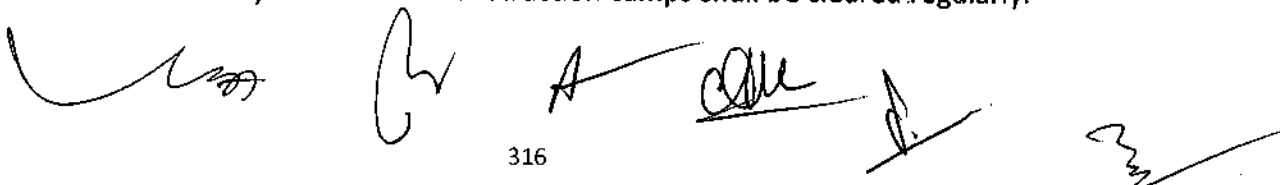
- xxxvi. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- xxxvii. Measures of socio economic significance and influence to 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.

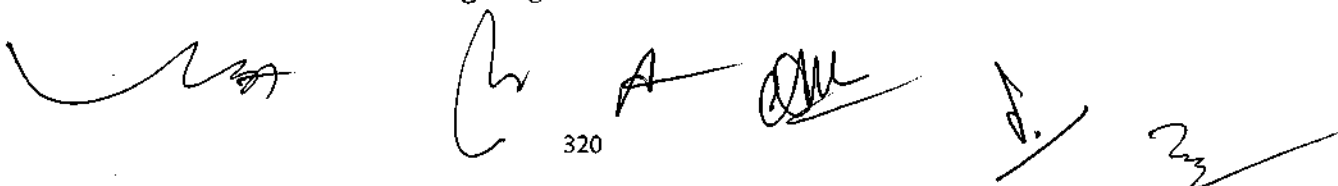
- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xviii. No sewage or untreated effluent water would be discharged 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.

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- 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.

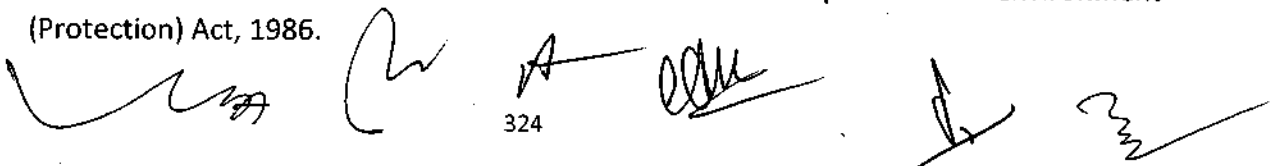
X. Corporate Environment Responsibility

- 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 :

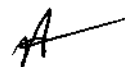
1. Examine base line environmental quality along with projected incremental load due to the project.
2. Environmental data to be considered in relation to the project development would be (a) land, (b) ground water,(c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations,(g) socio economic 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](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.

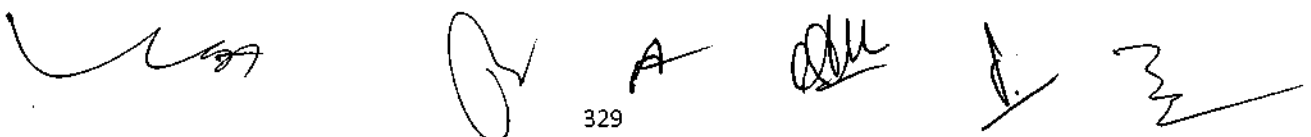


I. Statutory compliance:

- 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

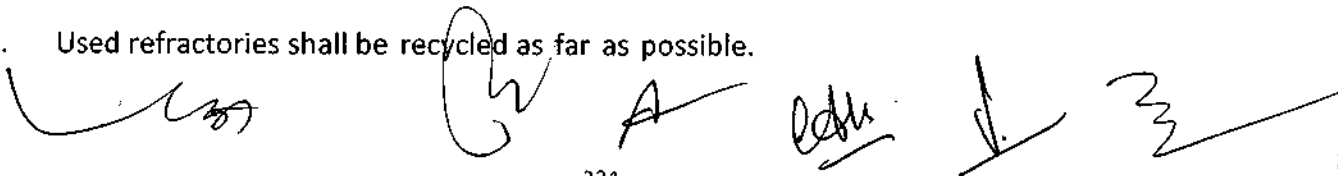
- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz.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

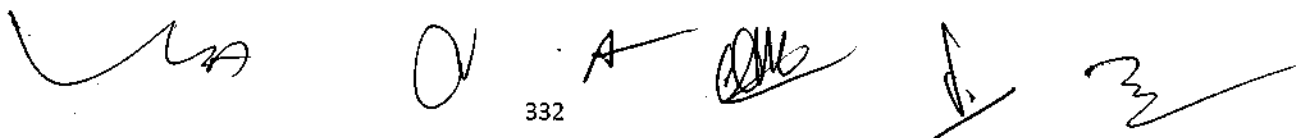
- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall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



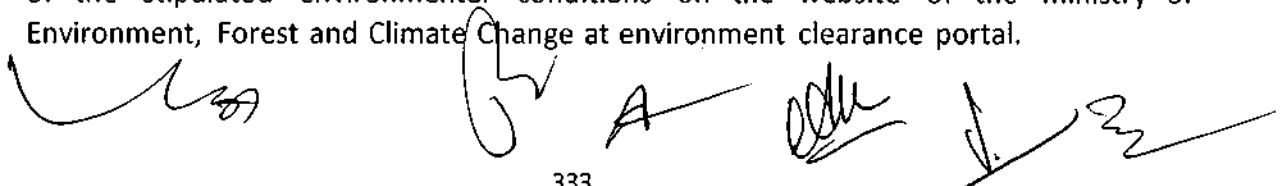
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shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- 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.

