

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024



PARIVESH 2.0, AGENDA No.01

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| Proposal No. | SIA/OR/MIN/462922/2024 |
| Date of application | 15.02.2024 |
| State file no. | 462922/05-MIN/02-2024 |
| Project Type | Expansion of EC |
| Category | B1 |
| Project/Activity including Schedule No. | 1(a) Mining of minerals |
| Name of the Project | Expansion proposal of EC for mining of Iron ore from Sanindpur and Bauxite mines with production capacity from 16.50 million TPA (15.0 million TPA ROM +dry crushing and screening of low-grade ore from old stacks & dumps of 1.50 million TPA) to total excavation 26.827 Million TPA (ROM Iron Ore: 20.85 million TPA + dry crushing & Screening of 2.085 million TPA of low grade Iron ore from old stacks & dump + Waste 3.892 million TPA) over an area of 147. 10 ha. located in villages Sanindpur & Oraghat in Sundergarh district of Sri Hirak Mazumder. |
| Name of the company/Organization | M/s. Rungta Sons Private Limited Sri Hirak Mazumder, MD |
| Location of Project | villages Sanindpur & Oraghat in Sundergarh district |
| ToR Date | NA |
| Name of Consultant | M/s. Ecomen Laboratories Pvt. Ltd., Lucknow |

Proposal in brief:

The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEIAA, are given as under.

1. This is an expansion proposal of Environmental Clearance of M/s. Rungta Sons Private Limited for Sanindpur and Bauxite mines production of Iron ore from 16.50 million TPA (15.0 million TPA ROM –dry crushing and screening of low-grade ore from old stacks & dumps of 1.50 million TPA) to total excavation 26.827 Million TPA (ROM Iron Ore: 20.85 million TPA + dry crushing & Screening of 2.085 million TPA of low grade Iron ore from old stacks & dump + Waste 3.892 million TPA) over an area of 147. 10 ha. located in villages Sanindpur & Oraghat in Sundergarh district of Sri Hirak Mazumder under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022.
2. **Category:** As per EIA Notification 2006 and subsequent amendments, the proposed project falls under Category B in Schedule item 1(a) - Mining of Minerals.
3. Total lease area of Sanindpur Iron and Bauxite Mine is 147.10 Ha, out of which 126.324 Ha is forest land and 20.776 Ha, is non-forest land. The Stage-II forest clearance has been obtained in three phases. In first phase, 52.742 Ha, forest land has been granted FC vide letter No.8-135/ 2003-FC dated 19.06.2006, In second phase, 15.393 ha, forest land has been granted FC vide letter No.8-135/ 2003-FC (vol.) dated 24.10.2013. In the 3rd phase, the balance 58.189 ha, forest land has been accorded Stage-II forest clearance vide letter No.8-135/2003-FC (VOL. I) dated 26.11.2020.



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

4. The mining lease was granted in favour of the lessee and executed for 20 years w.e.f. 06/09/1985 to 05/09/2005. In pursuance to section 8-A (6) of MMDR Amendment Act, 2015, the mining lease period has been extended up to 05.09.2035 by execution of a Supplementary Lease Deed on 14.07.2016, over an area of 147.100 hectare.
5. Approval of modification of review of Mining Plan with progressive mine closure plan for the proposed production has been approved by the Indian Bureau of Mines vide letter no. MCDR-MiFL0FF/45/2023-BBS-IBM-RO-BBS dated 14.02.2024.
6. Environmental Clearance has been granted to the existing project by SEIAA vide letter No. letter No. EC23B001OR130718, File No. 439726/770-MINB1/09-2023 dated 27.10.2023 for Total Handling of 19.3 MTPA [(production of 16.50 million TPA (15.0 million TPA ROM –dry crushing and screening of low grade ore from old stacks & dumps of 1.50 million TPA) + 2.8 MTPA waste [including wet beneficiation plant of throughput capacity of 1.44 MTPA granted earlier. The Present consent to operate was granted on 02.11.2023 and is valid up to 31.03.2025.
7. Surface water withdrawal permission for 1178 KLD has been renewed on 16.08.2023 which is valid up to 18.02.2026 allocation for 1087 KLD of surface water has been approved. The balance water requirement will be met from rain water collected in the mine pit. The PP has already received NOC from Central Ground Water Authority for withdrawal of 250 KLD ground water which is valid up to 17.03.2025.
8. **Project details:** The proposed expansion will be carried out in two phases of increase of 19.5% in each phase. Thus, the expansion in 1st phase (19.5% increase) will be total handling of 23.0635 MTPA [(ROM: 17.925 MTPA + low grade ore from old stack/dump: 1.7925 MTPA) + Waste: 3.346 MTPA] and thereafter in 2nd phase the expansion in total handling will be 26.827 MTPA (ROM + low grade ore from old stack/dump: 22.935 + waste: 3.892 MTPA) under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022.

| Particulars | Status |
|----------------------------------|--|
| Terms of Reference | Standard TOR conditions stipulated for Non Coal Mining Projects: (as per OM dated 30/05/2022) |
| Baseline Env. Monitoring studies | Conducted during March to May 2021 representing Summer season in the study area comprise of 10 Km zone around ML and one month revalidation of baseline data was conducted on December 2023. |
| Env. Public Hearing | Exempted vide O.M dated 11/4/2022. Project has gone through Public Hearing process at the time of obtaining EC under EIA Notification 2006. |
| Requirement of additional land | NIL (No additional land acquisition / increase in M.L. area is involved), Expansion is proposed in existing ML area of 147.10 Ha. |

9. **Location and connectivity:** The proposed project is located at located at villages Sanindpur & Oraghat, Tehsil- Koida, District-Sundargarh, State- Odisha of M/s Rungta Sons Pvt. Ltd bearing Toposheet no: 73G/5. Nearby villages are Sanidipur and Oraghat which are located at a distance of 2Km and 1 km respectively from the Lease area. The nearest railhead is at Barsuan of S.E. Railways and is 27 km away. Barbil is nearest railway station at distance of 33 KM. Airport under operation near the area are Bhubaneswar-300 km, Ranchi-220 km & Jamshedpur-172 km. Nearest river is Suna nadi which is 500m away and a power transmission passing through the eastern boundary of lease area. Distance of SH/NH road is 8km away which is NH-520. There are some major reserve forests such as Mendhamaruni, Siddhmath, Khesra, Kathmal, Karo, Patmunda, Kajhurdihi and Lakhraghat within the 10 km area from the lease boundary.

10. Method of Mining: The Proposed mining operation will be mechanized opencast, and the maximum total handling will be **26.827 MTPA** [(ROM: 20.85 MTPA + 2.085 million tonne from dry crushing & screening of old dumps/low grade stacks) + 3.892 MTPA waste]. However, in the 1st phase, the expansion capacity will be for total handling of 23.0635 MTPA [(ROM: 17.925 MTPA + low grade ore from old stack/dump: 1.7925 MTPA) + Waste: 3.346 MTPA]. The bench height and width will be up to 9m and 20m for C-top Iron quarry. During the proposed mining operation, the maximum waste generation per year will be 3.346 million tonne. The conventional opencast mining is adopted with deep hole drilling & blasting with 110 mm dia. wagon drill, excavation by excavator & dumper combination of capacity 3.2 m³, 3.9 m³, 4.3 m³ and 60 MT. Loader of capacity 2.1m³ are used for loading purposes. Both ore & OB/waste will be transported by dumpers of average capacity up to 40MT. Ore will be dispatched to nearby railway siding by 35 MT dumpers. Sometimes, ore will be transported to buyer's destination by truck also.

11. Drilling/blasting details: Drilling will be done by deep hole drilling with 110 mm diameter drilling machine with bit size 110 mm which can drill 35000 m/year on an average. The maximum depth of drill holes will be 10 m including one meter subgrade mineral reject drilling. It is an old mine, blasting requirement is very less, is done as and when required by external agency. However, no explosive storage is present within the mine.

12. Crusher details: In the process of expansion additional 4x300 TPH screening plant will be required along with the existing plants.

13. Dump management: In the mines there are 3 dumps (Dump B, D & E) Dump-B is a stabilized dump and progressive removal of this dump is under process whereas Dump D & E are active dumps. All dumps are surrounded by retaining wall & garland drain followed the settling pond. The inactive dump slopes are covered by plantation & coir matting. During proposed plan period dump B will be rehandled through screening/Crushing. Dump-D & Dump-E are active dumps. In the mine Dump-D and Dump-E are as waste dumps, occupying an area of 6.62 Ha and 3.6 Ha respectively. In dump D the quantity of waste materials- 4379288m³ up to Nov-2023 and in Dump-E contains total 263674 m³ waste at present. In the plan period it is proposed to dump another 449980m³ waste material in Dump-E in 5.58 ha area. In the year 2024-25, backfilling will be done in B1, over an area of 5.70 ha. Total 1450800m³ waste will be backfilled in Backfilling area B1. In the mine, dump-B is present as mineral reject dump, occupying an area of 8.64 ha. At present 4.53 million tonnes of low-grade iron ore/Mineral reject in present in this mineral reject Dump-B are used as Dump working material.

Existing dump management.

| Item | Dump-B | Dump D | Dump E |
|----------------|--------|----------------|--------------|
| Retaining wall | 803m | 1160 | 360 |
| Garland drain | 815m | 1170 | 370 |
| Settling pond | 1No. | 1 No. 3600 cum | 1no. 900 cum |

| Sl. No | Year | Name of the dump | Volume of dump (m ³) | Total dump quantity (t) | Grade of mineral reject |
|--------|-------------------------|------------------|---|--|-------------------------|
| 1 | 2023-24 (upto 30.11.23) | Dump- B | 2267070.50m ³ / 4534141 MT | 221503m ³ / 443006 MT | +45% |
| 2 | 2024-25 | Dump-B | 2045567.50m ³ / 4091135.00 MT | 1042500 m ³ / 2085000 MT | +45% |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

14. **Water requirement:** Total water requirement will be 3319 m³/day out of which 3069 m³/day of surface water and 250 m³/day of ground water. NOC from Central Ground Water Authority, Ministry of Water resources, River Development and Ganga Rejuvenation, Govt. of India for withdrawal of 250 KLD of ground water has already been received vide NOC No.: CGWA/NOC/MIN/REN/2/2023/8638 dated 29.11.2023 which is valid up to 17/03/2025. Surface water allocation of 1178 KI. has been obtained and additional 1087 KLD has been approved (Copy is yet to be received) . Balance water requirement will be met from rain water collected in the mine pit.
15. **Power requirement:** The electricity is supplied to the project by WESCO through 8 nos. transformers of total capacity 18815 kVA. For wet beneficiation plant already granted EC, 01 transformer with total capacity of 5MW is already installed. 3 nos. of generator of capacity 1320 KVA are available. There is additional requirement of 3 generators of capacity varying from 140 to 500 kVA (140 kVA, 320 kVA and 500 kVA). Solar power support system of 338.9 KW in the mine office and camp area is under operation. Present requirement of H.S.D is 2590426 Liters/year. For the envisaged increase in production total H.S.D. requirement will be around 3600692 Liters/year.
16. **Greenbelt:** There is 4.32 ha of green belt in the mine. 8640 nos. of saplings have been planted excluding causality replacement. In the life of the mine, yearly causality replacement will be done. At the Conceptual period a total of 140.1 ha (out of 147.10 ha) shall be covered under plantation. The tree planted are with species like Teak, Chakunda, Karanja, Mango, Acacia, Simarouba, Neem, Sisoo, etc.

| Total plantation proposed during the period 2023-24 to 2024-25 | | | |
|---|----------------------------------|--|--------------------------|
| Year | Proposed Nos. of Saplings | Location of plantation | Area covered (ha) |
| Proposed Plantation | | | |
| 2023-24 | 10000 | DUMP-D (Dump slope area with casual replacement as required) | 3.0 |
| 2024-25 | 10000 | DUMP-D (Dump slope area with casual replacement as required) | 3.0 |
| Total | 20000 | | 6.0 |

| DETAILS OF PROPOSED AFFORESTATION TILL LIFE OF THE MINE | | | |
|--|------------------|--|--|
| Category | Area (ha) | *No of Saplings @1600 per hect. | Total Expenditure (Rs.) @ Rs. 150/ plant (Projected base rate 2020-21 @ Rs. 100/ plant with an escalation of 50% i.e., Rs. 150/plant including 5 years maintenance) |
| Mining | 117.7 | 294175 | 4412625 |
| Waste Dump | 16.52 | 26432 | 3964800 |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

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|-----------------------------------|--------------|---------------|------------------|
| Area utilized for Mineral Storage | 1.58 | 2528 | 265440 |
| Green belt | 4.32 | 6912 | 1036800 |
| Total | 140.1 | 330047 | 96,79,665 |

17. **Manpower requirement:** At present 864 nos. of people are directly employed & 600 nos. of persons are indirectly employed. After proposed production enhancement the direct employment potential will be 1162 and indirect employment potential will be 800 no. of person.

18. **CSR Cost:** Expenditure made from 01.04.2014 to 31.03.2023 is Rs.2,08,95,47,339/- and the proposed expenditure for the year 2023-24 & 2024-25 are Rs.1,91,07,000/- & Rs.81,97,000/- respectively.

19. **Project Cost:** Total project cost is approx. 400 Crore rupees. Capital cost already made on Environment: Rs. 4965.03 lacs. Capital cost to be made on Environment: Rs. 262 lacs. Proposed recurring cost to be made on Environment per year from 2023-24 to lease period: Rs. 2084.74 lacs.

20. **Eligibility of the Project under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022:**

The MoEF&CC, Govt. of India vide Office Memorandum (O.M.) no. F. No. IA3-22/10/2022-IA.III [E177258] dated 11/4/2022 has issued guidelines for granting Environmental clearance under para 7(ii)(a) of EIA Notification 2006 for expansion upto 50%, within the existing premises / mining lease area, without additional land acquisition and Environmental Public Hearing. The compliance of the O.M. dated 11.04.2022 is as below:

| S. No. | Particular | Status |
|--------|--|---|
| 1. | The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments. | The Public Hearing was held on 9/11/2021 at 1.30 PM at open ground near Hanuman Temple at Orughat Village, under Koira block of Sundergarh District for existing Environmental clearance (attached as Annexure-1(C)) for total excavation 19.3 Million TPA (16.5 million TPA (15.0 million TPA ROM Iron Ore + dry crushing & Screening of 1.5 million TPA of low grade Iron ore from old stacks & dump) +2.8 Million TPA waste) in the mine lease area of 147.10 Ha. Latest compliance status of the issues raised during last public hearing held on 9th November, 2021 is given under Section 6.5 of Chapter-6 of EIA report. |
| 2. | There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernisation or expansion. | There is no change in the category of project i.e. "B1". |
| 3. | There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-a.-vis the area mentioned in the | There is no additional land acquisition/ increase in M.L. area/forest land diversion is involved in proposed expansion. Expansion is proposed in existing ML. area of 147.10 Ha. Total lease area of Sanindpur Iron and Bauxite Mine is 147.10 Ha, out of which 126.324 Ha is forest land and 20.776 Ha is non-forest land. |



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

| | <p>EC, based on which public hearing has been held earlier.</p> | <p>The Stage-II forest clearance has been obtained in three phases (attached as Annexure-1(i) of EIA report); In first phase, 52.742 Ha. forest land has been granted FC vide letter No.8-135/2003-Fe dated 19.06.2006. In second phase, 15.393 ha forest land has been granted FC vide letter No.8-135/ 2003-FC (vol.) dated 24.10.2013. In the 3rd phase, the balance 58.189 ha forest land has been accorded Stage-II forest clearance vide letter No.8-135/2003-FC (VOL. I) dated 26.11.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|-------------------------|-----------------|------------------------|-------------------------|--------------|-------------------------|-------|-------|-------|--------|-----------|-------|-------|-------|--------|----------------------------------|------|-------|-------|-------|----------------|------|-------|-------|-------|
| <p>4.</p> | <p>The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.</p> | <p>The proposed expansion is of 39% only (Phase-I: 19.5% & Phase-II:19.5%).</p> <table border="1" data-bbox="829 649 1540 1344"> <thead> <tr> <th></th> <th>Existing (MTPA)</th> <th>Phase-I (19.5%) (MTPA)</th> <th>Phase-II (19.5%) (MTPA)</th> <th>Total (MTPA)</th> </tr> </thead> <tbody> <tr> <td>Total Material Handling</td> <td>19.30</td> <td>3.764</td> <td>3.763</td> <td>26.827</td> </tr> <tr> <td>Total ROM</td> <td>15.00</td> <td>2.925</td> <td>2.925</td> <td>20.850</td> </tr> <tr> <td>Low Grade from Dump & Old Stacks</td> <td>1.50</td> <td>0.293</td> <td>0.292</td> <td>2.085</td> </tr> <tr> <td>Waste Handling</td> <td>2.80</td> <td>0.546</td> <td>0.546</td> <td>3.892</td> </tr> </tbody> </table> | | Existing (MTPA) | Phase-I (19.5%) (MTPA) | Phase-II (19.5%) (MTPA) | Total (MTPA) | Total Material Handling | 19.30 | 3.764 | 3.763 | 26.827 | Total ROM | 15.00 | 2.925 | 2.925 | 20.850 | Low Grade from Dump & Old Stacks | 1.50 | 0.293 | 0.292 | 2.085 | Waste Handling | 2.80 | 0.546 | 0.546 | 3.892 |
| | Existing (MTPA) | Phase-I (19.5%) (MTPA) | Phase-II (19.5%) (MTPA) | Total (MTPA) | | | | | | | | | | | | | | | | | | | | | | | |
| Total Material Handling | 19.30 | 3.764 | 3.763 | 26.827 | | | | | | | | | | | | | | | | | | | | | | | |
| Total ROM | 15.00 | 2.925 | 2.925 | 20.850 | | | | | | | | | | | | | | | | | | | | | | | |
| Low Grade from Dump & Old Stacks | 1.50 | 0.293 | 0.292 | 2.085 | | | | | | | | | | | | | | | | | | | | | | | |
| Waste Handling | 2.80 | 0.546 | 0.546 | 3.892 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>5.</p> | <p>Predicted environmental quality parameters arising out of proposed expansion/modernization shall be within the prescribed norms and the same shall be maintained as per prescribed norms.</p> | <p>It is an existing project having well defined EMP in place. The predicted environmental quality parameters for 39% expansion are of within the prescribed standards (discussed under Section 4.5 of Chapter-4) of EIA report and will be maintained well within the prescribed standards.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>6.</p> | <p>The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.</p> | <p>There will be no reduction in greenbelt and will remain same.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>7.</p> | <p>The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all</p> | <p>The certified compliance report has been obtained vide File No. 101-1054 dated 27.02.2024 (attached as Annexure-1(T)). Latest compliance status of the issues raised during last public hearing held on 9th November,</p> | | | | | | | | | | | | | | | | | | | | | | | | | |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

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| | <p>the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application.</p> | <p>2021 is given under Section 6.5 of Chapter-6 of EIA report.</p> |
| <p>8.</p> | <p>Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.</p> | <p>The proposed expansion is up to 39%. Hence as per provision of O.M. dated 11.04.2022, Public Consultation is not applicable.</p> |
| <p>9.</p> | <p>Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.</p> | <p>There is no effluent generation in the mine since there is no process waste water and no vehicle maintenance workshop is present. However, storm water generated rainy season is collected in in different water storage structures made at strategic point of the mine. Three Continuous Ambient Air Quality monitoring system has been installed in core and buffer zone.</p> |

21. **Environment Consultant:** The Environment consultant **M/s Ecomen Laboratories Pvt. Ltd., Lucknow** along with the proponent made a presentation on the proposal before the Committee.

22. The proponent has also furnished compliance to NEERI recommendations as part of standard ToRs and also certified compliance report to conditions stipulated in earlier Environmental Clearance in EIA report. They have furnished through mail revised EIA/EMP report along with queries and clarifications raised by the member during presentation.

23. The PP has submitted certified compliance report of the earlier EC letter.

24. Any deficiencies/omission have been noticed in the above documents- Nil

2. Whether SEAC recommended the proposal – Yes, the proposal was placed in the SEAC meeting held on 28.02.2024 and after considering the information furnished and the presentation made by the consultant M/s Ecomen Laboratories Pvt. Ltd., Lucknow along with the project proponent, the **SEAC recommended for grant of Environmental Clearance only for 19.5% increase in Iron Ore production capacity** i.e. from 16.5 MTPA (Total material handling of 19.30 MTPA : 15 MTPA ROM Iron Ore + 1.50 MTPA low grade from Dump and Old stacks + 2.80 MTPA waste handling) to 19.7 MTPA (Total material handling of 23.064 MTPA : 17.925 MTPA ROM Iron Ore + 1.793 MTPA low grade from Dump and Old stacks + 3.346 MTPA waste handling) in **Phase - I** under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022 with stipulated conditions as per **Annexure – A** and following specific conditions and **after successful compliance to Phase - I, rest 19.5% increase in Iron Ore production capacity in Phase - II** i.e. from 19.7 MTPA (Total material handling of 23.064 MTPA : 17.925 MTPA ROM Iron Ore + 1.793 MTPA low grade from Dump and Old stacks + 3.346 MTPA waste handling) to **22.9 MTPA** (Total material handling of 26.827 MTPA

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

20,850 MTPA ROM Iron Ore + 2,085 MTPA low grade from Dump and Old stacks + 3,892 MTPA waste handling) will be considered under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022.

- i) The project proponent needs to preserve or utilize the ore and fine's containing Fe between 35-45%, following IBM guidelines.
- ii) The project proponent shall maintain adequate greenbelt in the lease area.
- iii) OB dump sites shall be managed properly as proposed.
- iv) The additional fines generated due to proposed enhancement shall be managed properly.
- v) Proper Air Pollution Control measures shall be provided to control dust emission and local dust generation.
- vi) 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.
- vii) Traffic management shall be done as per recommendation of Traffic Management Study Report duly vetted by institute of repute.
- viii) As a part of six-monthly compliance, the PP shall submit the status of Tailing Pond and its annual make-up to ascertain its capacity to take care of expansion in production including mineralogical & chemical analysis of excavated ore, dump materials and rejects. Also, actual layout after expansion may be submitted as a part of six-monthly compliance to the SEIAA, Odisha and Regional Office, MoEF&CC, Govt. of India, Bhubaneswar.
- ix) Adequate measures shall be adopted for management of noise, vibration and fly rocks.
- x) Bench and dump slopes are to be designed based on scientific studies by subject experts from Institute of repute and maintained so that their failure is avoided.
- xi) The PP shall ensure proper surface runoff management and adopt adequate water conservation measures to augment the water resources of the area.
- xii) **The PP shall keep adequate space for storing and managing dump and tailing as brought out in the revised EIA report. All sub grades shall be staked for future use based on their potential (Fe content).**

Decision of Authority: Approved

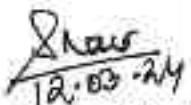
The Authority perused the recommendation of SEAC and reiterated that the PP must take all possible step to comply the NEERI guidelines on SOTM as stipulated in the EC issued by SEIAA, Odisha vide letter no. EC23B001OR130718 dated 27.10.2023 within next 5 years i.e. 27.10.2028.

After detailed deliberation in the matter, the Authority decided to allowed expansion of EC for production capacity from 16.5 MTPA to 19.7 MTPA until further order along with the additional stipulation recommended by SEAC in its meeting held on 28.02.2024.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


12.03.24
Chairman, SEIAA


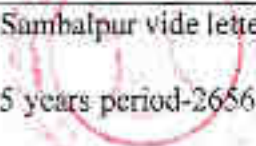
PARIVESH 2.0, AGENDA No.160.02

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| Proposal No. | SIA/OR/MIN/455235/2023 |
| Date of application | 14.12.2023 |
| File no. | 455235/21-MINB2/12-2023 |
| Project Type | New EC proposal (individual EC application) |
| Category | B2 |
| Project/Activity including Schedule No. | 1(a) Mining of minerals |
| Name of the Project | Proposal for EC mining of stone from Salesingh Stone Quarry over an area of 12.35 acres or 4.997 hectares bearing Khata no.-229, Plot no.- 826/1 & 826/2 in Village Salesingh, Tahasil Maneswar, District Sambalpur, State Odisha submitted under cluster approach with total cluster area 14.103 ha consisting of two Stone Quarries. |
| Name of the company/Organization | Smt. Kanchanbala Das |
| Location of Project | Village Salesingh, Tahasil Maneswar, District Sambalpur, State Odisha |
| ToR Date | 19.05.2022 |
| Name of the Consultant | M/s. P & M Solution |

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of stone from Salesingh Stone Quarry over an area of 12.35 acres or 4.997 hectares bearing Khata no.-229, Plot no.- 826/1 & 826/2 in Village Salesingh, Tahasil Maneswar, District Sambalpur, State Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. F44R15 and is bounded between the latitude - 21°19'03.76"N to 21°19'14.73"N and longitudes of 83°57'40.64"E to 83°57'56.62"E.
- (iii) The mining lease is an identified sairat source in the DSR. The Salesingh Stone Quarry sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Maneswar to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, D.I.C, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 1000/- vide e Challan Reference Id no. 33514832CF dt. 07.04.2022.
- (vii) Distance from nearest sanctuary/ESZ- Debrigarh WLS-28.50 Km
- (viii) Whether the lease area coming in D.I.C report-No as certified by Tahasildar, Maneswar vide letter no. 28.03.2022.
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-semi-mechanized
- (xi) Distance from nearest road bridge-6.0 km, **village road -0.10 km**
- (xii) Whether it is part of cluster - Yes, two stone quarries are coming in single cluster with total cluster area is 14.103 Ha. The cluster EIA & EMP approved by both SEAC and SEIAA and was communicated to PP vide file no. SIA/OR/MIN/422764/2023 dt. 08.12.2023. Now, the PP has applied individual EC application.
- (xiii) Whether EC obtained earlier-No.

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

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- (xix) Date of approval of mining plan- the Joint Director of Geology, Zonal Survey, Sambalpur vide letter no.141 dt.25.01.2021.
- (xx) Production capacity per annum-5194 cum/annum (max.), total production in 5 years period-26564 cum, Geological reserve-724592 cum and Mineable reserve-627302 cum.
- (xvi) Whether the DSR has been prepared as per the MoEF& CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020- No
- (xvii) TOR details: Terms of Reference (TOR) has been prescribed by SEIAA, Odisha, vide letter no. 4591/SEIAA & 4595/SEIAA dated 19.05.2022.
- (xviii) Public hearing details: Public hearing was conducted on 03.11.2022 in Salesingh village under Maneswar Tahasil. Issues raised during public hearing are damage of houses and school building along with noise pollution due to blasting activities, air pollution and its adverse effects on health, agricultural fields and its yield accidental issues due to plying of vehicles, dissatisfaction of villagers regarding public hearing meeting venue.
- (xix) The Cluster EMP budget provision of Rs. 4,82,000/- (Capital Cost) & Rs. 5.40 Lakh (Recurring Cost), CER Cost is Rs. 0.80Lakh/annum.
- (xx) The Individual EMP budget provision of Rs. 95,600/- (Capital Cost) & Rs. 2.70 Lakh (Recurring Cost), CER Cost is Rs. 0.40Lakh/annum.
- (xxi) Considering the information / documents furnished by the proponent and presentation made by the consultant M/s P & M Solution, C-88, Sector 65, Noida on behalf of the proponent,
- (xxii) Any deficiencies/omission have been noticed in the above documents- **Village Road and village are located within 100 meter from the quarry boundary.**

2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 18.08.2022 and the SEAC approved the EIA/EMP report in cluster approach and recommended the following:

The SEIAA, Odisha may consider to grant Environmental Clearance to individual lease for Salesingh Stone Quarry cluster without referring to SEAC with specific conditions as per Annexure – C after receipt of individual-applications from the lessee in cluster along with following documents.

- i) Filled in form-I of individual lease
- ii) Prefeasibility report of individual lease
- iii) EMP of individual lease.
- iv) Approved Mining Plan of individual lease.
- v) Report on vibration study.
- vi) DLC status of the lease area from concerned DFO as certified by the concerned Tahasildar.
- vii) An Undertaking by the lessee not to use wagon drilling blasting to be submitted. Accordingly, specific condition to be stipulated in EC of individual lease.
- viii) No storage and usage of blasting materials/explosives inside the lease area without license/permission/authorization from competent Authority as per Indian Explosives Rules, 1983 shall be ensured by the lessee. An undertaking to this effect shall be submitted by the lessee. Accordingly, specific condition to be stipulated in EC of individual lease.
- ix) An undertaking to obtain NOC from CGWA and permission from WR department, Govt. Of Odisha for use of ground water. Accordingly, specific condition to be stipulated in EC of individual lease.
- x) The project proponent shall maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the stone quarry for ensuring that working personnel are not affected by silicosis.
- xi) The project proponent shall undertake re-grassing of the area or any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for fodder, flora, fauna etc. after ceasing mining operation that is at the time of mine closure.
- xii) A condition on SOP for blasting and safety on management of flying rock to be implemented and detail risk and hazard management procedure shall be followed by the lessee as per the Annexure – D.

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

xvii) Hausage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.

Decision Of Authority: Approved

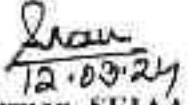
After detailed deliberations, the Authority decided to grant **Environmental Clearance** with usual stipulated conditions as applicable for stone quarry.

- The PP shall operate the quarry in semi-mechanized method without blasting
- Maximum depth of mining 6.0 meter and maximum quantity of extraction shall be limited to 5194 in 1st year and 5194 in the 2nd year.
- The EC is valid till validity of DSR or validity of lease period whichever is earlier.
- The Grant of EC for further period will be considered after submission of approved DSR by SEIAA as per the MoEF& CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020 and also as per the Hon'ble Supreme Court order vide its order dated 10.11.2021 in Civil Appeal Nos. 3661-3662 of 2020 (State of Bihar Vrs. Pawan Kumar and Others).
- The Project Proponent (lease holder) shall deposit Rs.2,50,000/-, with the respective District Environment Society for raising 500 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMI⁹ with a budgetary allocation of Rs. 95,600/- (Capital Cost) & Rs. 2.70 Lakh (Recurring Cost), CER Cost is Rs. 0.40Lakh/annum.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


12.03.24
Chairman, SEIAA

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024



| PARIVESH 2.0, AGENDA No.160.03 | |
|---|--|
| Proposal No. | SIA/OR/INFRA2/453691/2023 |
| Date of application | 04.12.2023 |
| File no. | - |
| Project Type | Proposal for EC |
| Category | B |
| Project/Activity including Schedule No. | 8(a) Building and Construction projects |
| Name of the Project | Proposal for EC of Construction of 400 Bedded Multi Purpose Hospital & Research Center, at Jagadguru Kripalu University, Banara, Cuttack, Odisha with total plot area of 56372.71 Sq.m i.e. 13.930 Acres and built area of 37504 Sq.m by Sri Jagadguru Kripalu University. |
| Name of the company/Organization | Smt. Sulakshyana Das, Registrar |
| Location of Project | Banara, Cuttack, Odisha |
| ToR Date | N/A |
| Name of the Consultant | M/s Kalyani Laboratories Pvt. Ltd. |

Proposal in brief:

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

- (i) This proposal is for Environmental Clearance Construction of Sri Jagadguru Kripalu 400 Bedded Multi-Purpose Hospital & Research Center with total plot area of 56372.71 Sq.m i.e. 13.930 Acres and plot area of 37504 Sq.m at Jagadguru Kripalu University, Banara, Cuttack district of Smt Sulakshyana Das.
- (ii) The project falls under category "B" or activity 8(a) Building and Construction projects under EIA Notification dated 14th September 2006 as amended from time to time.
- (iii) Jagadguru Kripalu University is proposing for establishment of 400 bedded hospital and research center in outskirts of Cuttack City at Vill: Baanara, Banki, Cuttack District, Odisha. The plot area meant for construction of 400 bedded hospital will be established over an area of 13.930 Acres i.e. 56372.71 Sq.m with a total builtup area of 37404 Sq.m. Total parking provided for the project will be 11300 sq.m open parking (30% of builtup area) and 11274 sq.m green cover area (20% of Plot area). The land is of Gharabari kissam without any forest land included.
- (iv) **Location and Connectivity** - The project is located at Plot No. 3654, 3656, 3858/4922, 3858/5001, Khata No- 771/462; Kissam - GharabariMauza Banara, Via: Munduli, Tahasil: Dampada. The Hospital will be constructed within the existing campus of JKU. The Geographical co-ordinate of the project site are Latitude: 20° 24' 49.21" - 20° 25' 3.35" N, Longitude: 85° 45' 22" - 85° 45' 22"37 E. and finds place in Toposheet no. 7311/11. The nearest road is Banki Cuttack road at 1km. Nearest Railway station Baranga at 7km. Nearest River is Mahanadi at 2.5km. Munduli Borage at 3.5km. Chandaka Reserve forest at 1km. The nearest Ecologically sensitive area is Chandaka Elephant Sanctuary which is located at 1 Km from the project. The project site is located outside the ESZ boundary of the sanctuary.
- (v) **Water Requirement** - Total water requirement will be 677 cum per day out of which fresh water requirement will be 406 Cu.m Per day. Water will be sourced from ground water through bore well. Out of the total water requirement of 677 KLD, 406 KLD (60%) of fresh water, which will be met through bore well for drinking, washing and other domestic purpose. 271 KLD (40%) of water will be made available from treated waste water for Flushing and gardening purpose. Application to CGWA for withdrawal of ground water is under process. The treated



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

waste water will be completely used for green belt development, HVAC use and washing purpose.

- (vi) **Waste Water Management** - The waste water generated from the project will be 271 KLD which will be treated through a Sewage Treatment Plant of 370 KLD. Another ETP is proposed for treatment of infectious waste water with capacity of 40 KLD.
- (vii) **Rain water Harvesting** - For water conservation rain water harvesting pits/tank is proposed which consists of 10 nos of each having dimension 35.325cu.m rain water recharge pits.
- (viii) **Power Requirement** - Based on the Electrical Load calculation, overall maximum demand load is anticipated as approximately 2.5 MVA. 162 KW of solar power generation proposal is included in the project which reduces 7% of the total power requirement. Total power requirement for the project is 2406 KW Backup power requirement by DG = 1 x1250 kVA + 2 x750 kVA = 2750 kVA. Backup power generated = 2475 KW. For complete power back up 1x 1250 and 2x750 kVA DG set is required
- (ix) **Green belt** - Plantation will be made over an area of 11274 Sq.Mt with 2815 saplings. The plantation will completed within 3 years of construction period.
- (x) **Solid Waste Generation** - During the implementation of the project the biomedical waste generated from the project will about 2100 Kg. The Bio medical waste generated will be collected, segregated and disposed as per Biomedical waste management rule, 2016. 3 Nos of solid waste segregation room will be constructed for separation of biological waste and other solid waste. Bio medical waste will be disposed through authorized agencies (RAMKY) (Authorized by Odisha State Pollution Control Board)
- (xi) **Fire Fighting system** - The project includes Static water storage tanks and Fire pumps, Wet Riser system, Hose Reels, Portable Fire extinguishers, Automatic Sprinkler system. There is the proposal for 100 Cu.m UG tank and 10 cu.m OHT for firefighting. The internal road will be 7m wide road which can serve for movement of fire vehicles. In the circulation plan of the project, there will be proper entry and exit points for systematic control of the vehicular movement within the medical complex.
- (xii) All the materials used in construction of this building are strictly in accordance with BIS/ISI specifications and norms conforming to National Building Code, 2016 covering all the safety factors including earthquake and cyclone. The project obtained structural safety certification from the competent authority regarding the construction of the building.
- (xiii) **Project Cost** - Total cost of the project is Rs.90.76 crores and the capital cost for EMP is 95 lakhs and the recurring cost will be 27 Lakhs per annum.
- (xiv) The Environment Consultant **M/s Kalyani Laboratories Pvt. Ltd. Bhubaneswar** along with the proponent made a detailed presentation on the proposal before the Committee on 02.09.2022.
- (xv) The proposed site was visited by the sub-committee of SEAC on 14.11.2022. Following are the observations of the sub-committee:
 - a) The proponent and consultants showed us the proposed land for the establishment of 400-bedded hospital & research centre.
 - b) The land has not been developed at all and hence, no construction work has been started.
 - c) The proponent has been advised to submit lay out map for parking, ETP, STP, entire drainage system, entry & exit gates, etc., while submitting for EC.
- (xvi) The proponent has furnished the compliance and the SEAC verified the same as follows:

| Sl. No. | Information Sought by SEAC | Compliance furnished by the proponent | Views of SEAC |
|---------|---|--|--------------------------------------|
| a) | Backup calculation to attain Zero liquid Discharge concept. | Water requirement, Water balance and details of Zero Liquid discharge has been attached as Annexure 1 | Annexure 1 is attached and complied. |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024



| b) | Details of Rain water Harvesting. | Details of rain water harvesting is attached as Annexure 2 | Annexure 2 is attached and complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|-----------|-----------------|---------|------------------------------|---------|---|--------|---|---|---------------------------------------|--------------------|--|--|-------------------------|--|-----|---------------------------------------|----|-----|----|--|----|----------------------------|---------------------------------------|--|----|----------------------|------|---|---|
| c) | Location, Source and utilisation/ disposal of 40KLD ETP effluent. | Details of ETP, Location Source, and utilisation/ disposal of 40KLD ETP effluent is attached as Annexure 3 | Annexure 3 is attached and complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d) | Provision for Incinerator. | We will install an incinerator of 250 Kg/hr capacity. The incinerator will be provided with Bagfilter and emission will be maintained as per the CPCB guideline. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">S. No.</th> <th rowspan="2">Parameter</th> <th colspan="2">Standards</th> </tr> <tr> <th>(3)</th> <th>(4)</th> </tr> <tr> <th>(1)</th> <th>(2)</th> <th>Limiting concentration in mg/m³ unless stated</th> <th>Sampling Duration in minutes, unless stated</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Particulate matter</td> <td>50</td> <td>30 or 15MP of sample volume, whichever is more</td> </tr> <tr> <td>2.</td> <td>Nitrogen Oxides NO and NO₂ (expressed as NO₂)</td> <td>400</td> <td>30 for online sampling or grab sample</td> </tr> <tr> <td>3.</td> <td>HCl</td> <td>50</td> <td>30 or 15MP of sample volume, whichever is more</td> </tr> <tr> <td>4.</td> <td>Total Sulphur and Fluorine</td> <td>1.1mg TSS/MP (or 11% O₂)</td> <td>5 hours or 2MP of sample volume, whichever is more</td> </tr> <tr> <td>5.</td> <td>Hg and its compounds</td> <td>0.05</td> <td>2 hours or 15MP of sample volume, whichever is more</td> </tr> </tbody> </table> | S. No. | Parameter | Standards | | (3) | (4) | (1) | (2) | Limiting concentration in mg/m ³ unless stated | Sampling Duration in minutes, unless stated | 1. | Particulate matter | 50 | 30 or 15MP of sample volume, whichever is more | 2. | Nitrogen Oxides NO and NO ₂ (expressed as NO ₂) | 400 | 30 for online sampling or grab sample | 3. | HCl | 50 | 30 or 15MP of sample volume, whichever is more | 4. | Total Sulphur and Fluorine | 1.1mg TSS/MP (or 11% O ₂) | 5 hours or 2MP of sample volume, whichever is more | 5. | Hg and its compounds | 0.05 | 2 hours or 15MP of sample volume, whichever is more | - |
| S. No. | Parameter | Standards | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | (3) | (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | (2) | Limiting concentration in mg/m ³ unless stated | Sampling Duration in minutes, unless stated | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Particulate matter | 50 | 30 or 15MP of sample volume, whichever is more | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Nitrogen Oxides NO and NO ₂ (expressed as NO ₂) | 400 | 30 for online sampling or grab sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | HCl | 50 | 30 or 15MP of sample volume, whichever is more | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Total Sulphur and Fluorine | 1.1mg TSS/MP (or 11% O ₂) | 5 hours or 2MP of sample volume, whichever is more | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Hg and its compounds | 0.05 | 2 hours or 15MP of sample volume, whichever is more | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e) | Location of STP, disposal of STP water with no integration of STP & ETP. | There will be no integration of STP with ETP. The Location of STP is given as Annexure 4 . <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">ZERO LIQUID DISCHARGE</th> </tr> </thead> <tbody> <tr> <td>Capacity of STP</td> <td>370 KLD</td> </tr> <tr> <td>Treated waste water from STP</td> <td>271 KLD</td> </tr> <tr> <td>Utilization of Treated water for Flushing (Dual Plumbing)</td> <td>81 KLD</td> </tr> <tr> <td>Utilization of treated water for green belt development</td> <td>15 KLD</td> </tr> <tr> <td>Utilization of treated water for HVAC</td> <td>175 KLD</td> </tr> <tr> <td colspan="2">No treated water will be discharged outside the premises</td> </tr> </tbody> </table> | ZERO LIQUID DISCHARGE | | Capacity of STP | 370 KLD | Treated waste water from STP | 271 KLD | Utilization of Treated water for Flushing (Dual Plumbing) | 81 KLD | Utilization of treated water for green belt development | 15 KLD | Utilization of treated water for HVAC | 175 KLD | No treated water will be discharged outside the premises | | Annexure 4 is attached. | | | | | | | | | | | | | | | | |
| ZERO LIQUID DISCHARGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity of STP | 370 KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Treated waste water from STP | 271 KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utilization of Treated water for Flushing (Dual Plumbing) | 81 KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utilization of treated water for green belt development | 15 KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utilization of treated water for HVAC | 175 KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No treated water will be discharged outside the premises | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| f) | Backup calculation of 175KLD water used in HVAC. | Back up calculation of 175 KLD water used in HVAC is attached as Annexure 5 . | Annexure 5 is attached. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| g) | Parking area in terms of ECS for 4 wheelers and 2 wheelers and their location for staffs, patients and visitors. | Parking area in terms of ECS for 4 wheelers and 2 wheelers and their location for staffs, patients and visitors is attached as Annexure 6 . | Annexure 6 is attached but location/layout not showed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| h) | Traffic Study Report to be submitted duly vetted by institute of repute. | Detail traffic study report is attached as Annexure 7 . | Traffic Study Report findings state LOS – B. Traffic study Report is not vetted by reputed institute. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i) | Layout plan and width of road for movement of Fire Tender. | Layout plan and width of road for movement of Fire Tender attached as Annexure 8 . | Annexure 8 is attached | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

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| j) | Detailed calculation of greenbelt with breakup and dimensions. | Detailed calculation of greenbelt with breakup and dimensions is attached as Annexure 9 . | Layout of the greenbelt with proposed species is given but calculation of greenbelt with breakup is not visible in layout. Only total greenbelt area 11274sqm is given. |
| k) | Backup calculation of DG sets of 2750KW. | Detail back up calculation for DG set requirement is attached is 2750 KW. Annexure 10 . | Solar power calculation, generation and use in % of total power is not submitted. |
| l) | Layout map showing nearest drain and its distance. | There is no proposal for discharge of waste water from the project to outside. The entire treated water will be utilized for watering of the plantation area, HVAC makeup water and sprinkling purpose. | Layout map showing nearest drain and its distance is not given. |
| m) | Layout of internal drainage map and their fallout if any to external public drain, | There is no proposal for discharge of waste water from the project to outside. The entire treated water will be utilized for watering of the plantation area, HVAC makeup water and sprinkling purpose. Internal drainage plan is attached as Annexure 11 . | Annexure 11 is attached |
| n) | Copy of permission of the concerned authority of the drain to discharge if any water from project to the nearby drain. | There is no proposal for discharge of waste water from the project to outside. The entire treated water will be utilized for watering of the plantation area, HVAC makeup water and sprinkling purpose. | Complied. |
| o) | Breakup of total built up area of the whole project area including university. | Detail breakup of the built-up area is attached as Annexure 12 . | Annexure 12 is attached |
| p) | Permission/Undertaking that total built up area will not exceed 150000sq.mt. | Undertaking attached as Annexure 13 . | Annexure 13 is attached |
| q) | Approval Letter from Fire Safety Deptt, | Approval from Fire safety department will be obtained after the completion of construction work. | |
| r) | Details of accreditation of the University. | Details of accreditation of the University is attached as Annexure 14 . | Annexure 14 is attached |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024



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| s) | Construction status of the project of the university such as prior to 2006 and after 2006 and till now. | Construction status of project of the university such as prior to 2006 and after 2006 and till now is attached as Annexure 15 . | Annexure 14 is attached mentioning in undertaking that there was no construction of projects prior to 2006 and construction started of University started from 2017. |
|----|---|--|--|

xvii) Sub-Committee Observation:

| Sl. No. | Information Sought by SEAC | Compliance furnished by the proponent | Views of SEAC |
|---------|---|--|---|
| a) | Lay out map for hospital road network, starting from entry gate to exit gate. | Layout plan of the hospital road is attached Annexure A . | - |
| b) | Lay out map for parking area for 4 wheelers and 2 wheelers for staffs, patients and visitors. | Lay out map for parking area for 4 wheelers and 2 wheelers for staffs, patients, and visitors attached as Annexure A . | - |
| c) | Traffic Study Report to be submitted. | Detail traffic study report is attached as Annexure 7 . | - |
| d) | Layout plan for Firefighting gadgets and width of road for movement of Fire fighting vehicles. | Layout plan for Firefighting gadgets and width of road for movement of Fire fighting vehicles attached as Annexure 8 . | - |
| c) | Detailed calculation of greenbelt with breakup and dimensions. Backup calculation of DG sets of 2750KW. | Detail back up calculation for DG set requirement is attached is 2750 KW, Annexure 9 . | Annexure 10 is attached power and DG set backup calculation. |
| f) | Details of Rain Water Harvesting. | Details of rain water harvesting is attached as Annexure 2 . | - |
| g) | Layout map for entire drainage system showing nearest public drain and its distance. | There will be no discharge of water from the hospital to outside drain. The drainage system map is attached as Annexure 3 . | - |
| h) | Location, Source and utilisation/disposal ETP and STP effluents, special emphasis on Zero Liquid Discharge concept. | Water requirement, Water balance and details of Zero Liquid discharge has been attached as Annexure 1 . | - |
| i) | Details of solar power calculation, generation and use in % of total power. | Details of solar power calculation, generation and use in % of total power attached as Annexure 10 . | Not submitted |
| j) | Stack height vs building height may be furnished. | The maximum height of the building will be 15 m and the height of the DG stack | - |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

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| | proposed is 30m which is much above the building height. | |
| *) | Layout for green belt. | Given |

(viii) The SEAC in its meeting held on **03-05-2023** decided to take decision on the proposal after receipt of the following information / documents from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

| Sl. No. | Information Sought by SEAC | Compliance furnished by the proponent |
|---------|--|---|
| i) | Location / layout showing Parking area in terms of ECS for 4 wheelers and 2 wheelers for staffs, patients and visitors. | Location and Layout plan showing parking area in terms of ECS for 4 wheelers and 2 wheelers for staffs, patients and visitors is attached as Annexure 1. |
| ii) | Traffic study Report submitted is not vetted by reputed institute. Hence, vetted Traffic Study Report shall be submitted. | Vetted traffic report attached as Annexure 2. |
| iii) | Layout of the greenbelt with proposed species is given but calculation of greenbelt with breakup is not visible in layout. Only total greenbelt area 11274sqm is given. Hence, a visible layout showing details to be submitted. | Layout plan Showing the Green belt area is attached as Annexure 3. |
| iv) | Solar power calculation, generation and use in % of total power is not submitted. Hence, it shall be submitted. | Solar Power calculation, generation and use in terms of percentage of total power is attached Annexure 4. |
| v) | Layout map showing nearest drain and its distance is not given. Hence, it shall be submitted. | No waste water will be discharged to outside the project site. The waste water generated from the project will be treated through 40 KLD ETP and 370 KLD STP. Treated waste water will be utilized for Dual plumbing (Flushing) green belt development, washing and HVAC makeup water. Surface runoff water from the project site will be pass through the internal surface water drain and recharge through 8 nos of recharge pit. There is no surface water drain/ sewer drain constructed in the nearby area. |
| vi) | Construction status of the project of the university such as prior to 2006 and after 2006 and till now has not been submitted. Hence, it shall be submitted. | The construction of university started in the year 2017. There was no construction activities prior 2006. Undertaking in this regard attached for Reference. Annexure - 5. |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

(xix) The Committee observed that they have started construction for university but not for the Hospital component for which EC has been applied.

(xx) (xxi) Any deficiencies/omission have been noticed in the above documents- Nil.

2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 17.08.2023 and the SEAC recommended for grant of Environmental Clearance for the project valid for a period of 10 years with stipulated conditions as per **Annexure – C** in addition to following specific conditions:

- (i) The project is built on an area of 13.93 acres and from the available document it is noted that the site is not connected to any outside storm water drain for facilitating effective drainage of rainwater from the project site during periods of natural rainfall. The project proponent has declared that the entire surface run off from the entire project site during rainfall will be recharged to the ground through the constructed rainwater pits. Hence, it is important to ensure that the proposed plan of diverting entire surface run off from the project site during rainfall to the ground water system through the constructed rainwater recharge pits can be effectively done during natural rainfall keeping in view natural ground water level during rainy season, flow of ground water at the project site and maximum anticipated rainfall in any season as well as highest anticipated intensity of such rain fall in any day.
- (ii) As it is not practically possible to manage surface runoff with RWH in rainy season, the PP need to plan and have a drain till the nearest fallout for the extra surface runoff with due permission from the appropriate authority.

3. The proposal was placed in 139th SEIAA meeting held on 16.10.2023, 17.10.2023 & 19.10.2023. The Authority observed that the PP has applied EC for the plot area instead of total built-up area. The PP needs to rectify the title of the project in the Old Parivesh Portal or apply afresh with total built-up area for which EC is required.

- ii) The Annexure-12 shows the project has total Builtup area of 1,17,677.93 Sqmt. while the EC is sought for 37,504 Sqmt. this needs to be clarified.
- iii) The KML file of the area for which EC is sought shall be uploaded and not for the whole area.

Decision Of Authority: ADS

After detailed deliberations in the matter, the Authority decided that the PP is required to clarify the the below mentioned points raised by SEIAA, Odisha letter dt. 08.11.2023 as follows:

- (i) The PP has applied EC for the plot area instead of total built-up area. The PP needs to rectify the title of the project in the Old Parivesh Portal or apply afresh with total built-up area for which EC is required.
- (ii) The Annexure-12 shows the project has total Built-up area of 1,17,677.93 Sqmt. while the EC is sought for 37,504 Sqmt. this needs to be clarified.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


12.03.2024
Chairman, SEIAA

PARIVESH 2.0, AGENDA No.160.04

| | |
|---|--|
| Proposal No. | SIA/OR/MIN/460245/2024 |
| Date of application | 30.01.2024 |
| File no. | - |
| Project Type | New EC proposal (individual EC application) |
| Category | B2 |
| Project/Activity including Schedule No. | 1(a) Mining of minerals |
| Name of the Project | Proposal for EC mining of sand from Turkel Sand Quarry-1 over an area of 12.36 Acres or 5.00 Ha having Khata No.221, Plot No. 270 in village Turkel under Kalahandi Tahasil of Kalahandi District, Odisha. |
| Name of the company/Organization | Sri Rajeswar Thakur, Managing Director, Thakur Bultech Pvt. Ltd., At-Near Balaji Temple, Po/Ps- Bhawanipatna, Dist- Kalahandi |
| Location of Project | Turkel - under Kalahandi Tahasil of Kalahandi District, Odisha |
| ToR Date | 11.11.2022 |
| Name of the Consultant | M/s. Green Circle .NIC, Vadodara |

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

- (i) This is a proposal for mining of sand from Turkel Sand Quarry-1 over an area of 12.36 Acres or 5.00 Ha having Khata No.221, Plot No. 270 in village Turkel under Kalahandi Tahasil of Kalahandi District, Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. 64P/4 and is bounded between the Latitude - 20°08'35.33"N to 20°08'44.30"N and longitudes of 83°05'17.20"E to 83°05'28.80"E.
- (iii) The mining lease is an identified sairat source in the DSR. The Turkel Sand Quarry-1 sairat source will be leased out under the OMMC Rules, 2016 by Mining Officer, Kalahandi to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 2000/- vide e Challan Reference Id no. 35D5851C00 dt. 18.12.2023.
- (vii) Distance from nearest sanctuary/TSZ- Karlapat WLS-53.0 Km
- (viii) Whether the lease area coming in DLC report-No, NA
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-Manual
- (xi) River-Tel, Depth of sand deposition-2.0 meter
- (xii) Distance from nearest road bridge-0.3 km, village road -1.0 km
- (xiii) Whether it is part of cluster -Yes, two sand quarries i.e . Turkel Sand Quarry-1 & II are coming in single cluster and total cluster area is 10.00 Ha. EIA & EMP prepared both cluster sand quarries.
- (xiv) Whether EC obtained earlier-Yes, issued by DEIAA, Kalahandi vide letter no. 36/DEIAA dt. 24.04.2017 and submitted EC compliance but not satisfactory.
- (xv) Date of approval of mining plan- the Joint Director of Geology, Zonal Survey, Balangir vide letter no.611 dt.29.06.2022.

- (xvi) Production capacity per annum-18000 cum/annum (max.), total production in 5 years period-90000 cum, Geological reserve-100038 cum and Mineable reserve-21600 cum and depth of mining as per approved mining plan is 1.8 meter.
- (xvii) Whether the DSR has been prepared as per the MoEF& CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020- No
- (xviii) Replenishment Study Report – For Replenishment study, the survey was done by using UAV/Drone which indicates the mineable sand deposit is around 33525 cum. 60% of the above computed mineable reserve has been taken as available mineable reserve over the area as per MoEF Notification dated 25.07.2018. Maximum of 33525 cum of sand per annum may be allowed for mining activities. 60% of the mineable reserve is 20115 cum. The maximum extraction limit as per sustainable sand mining Rule of MoEF Guideline is 20115cum.
- (xix) TOR details: Terms of Reference (TOR) has been prescribed by SEIAA, Odisha, vide letter no. SIA/OR/MIN/80758/2022 dated 11.11.2022.
- (xx) Public hearing details: Public hearing was held on dated 14.09.2022 at 10.00 AM near Chahagaon Gram Panchyat Office under Kalahandi block of Kalahandi District. During Public Hearing, about 80 local people participated and 33 suggestions/opinions were received by local citizens. Issues raised were regarding transportation of sand, transportation route, sand mining from river bed, control of vehicular emission during transportation, dust suppression measures, road development, provision of drainage facility in the village to avoid water logging problem, plantation, utilization of DMF fund for peripheral development of the village, road development and protection of environment. The amount incurred for action plan of public hearing is Rs. 50,000.
- (xxi) The Cluster EMP budget provision of Rs. 1,45,000/- (Capital Cost) & Rs. 0.75 Lakh (Recurring Cost) for Turkel-I and Rs. 1,45,000/- (Capital Cost) & Rs. 0.75 Lakh (Recurring Cost) for Turkel-II, CER Cost is Rs. 0.50Lakh/annum.
- (xxii) The Individual EMP budget provision of Rs. 1,45,000/- (Capital Cost) & Rs. 0.75 Lakh (Recurring Cost), CER Cost is Rs. 0.25Lakh/annum.
- (xxiii) Any deficiencies/omission have been noticed in the above documents- **Nil**

2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 11.07.2023 and the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per **Annexure – C** and following specific conditions:
- Amended EIA Notification dated 25th July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – D**.
 - Regular replenishment study as per guidelines to be conducted and report to be submitted.
 - Provision of Bio-toilet shall be made at the site.
 - Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.
 - Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.
 - Bridge is of 1km length and about 200meter from the lease area. As per Enforcement and Monitoring Guidelines for Sand Mining 2020 "Sand and gravel shall not be extracted up to a distance of 1 kilometer from major bridges and highways on both sides, or 5X of the length of the bridge on the upstream side and 10X on downstream side". Taking this criteria, sand extraction shall be permitted leaving the Non Mining zone as Safety zone from the bridge.**

Decision Of Authority: ADS

After detailed deliberations in the matter, the Authority decided that the PP is required to comply with the observation of point no. (f) of SEAC which reproduced below: i.e. "Bridge is of 1km length and about 200meter



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024



from the lease area. As per Enforcement and Monitoring Guidelines for Sand Mining 2020 "Sand and gravel shall not be extracted up to a distance of 1 kilometer from major bridges and highways on both sides, or 5X of the length of the bridge on the upstream side and 10X on downstream side". Taking this criteria, sand extraction shall be permitted leaving the Non Mining zone as Safety zone from the bridge"

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA
12.03.24



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

| PARIVESH 2.0, AGENDA No.160.05 | |
|---|--|
| Proposal No. | SIA/OR/MIN/460434/2024 |
| Date of application | 30.01.2024 |
| File no. | - |
| Project Type | New EC proposal (individual EC application) |
| Category | B2 |
| Project/Activity including Schedule No. | 1(a) Mining of minerals |
| Name of the Project | Proposal for EC mining of sand from Turkel Sand Quarry-2 over an area of 12.35 Acres or 5.00 Ha having Khata No.221, Plot No. 270 in village Turkel under Kalahandi Tahasil of Kalahandi District, Odisha. |
| Name of the company/Organization | Sri Subhransu Mohapatra |
| Location of Project | Turkel under Kalahandi Tahasil of Kalahandi District, Odisha |
| ToR Date | 11.11.2022 |
| Name of the Consultant | M/s. Green Circle .NIC, Vadodara |

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SI/AC/SEIAA, are given as under.

- (i) This is a proposal for mining of sand from Turkel Sand Quarry-2 over an area of 12.35 Acres or 5.00 Ha having Khata No.221, Plot No. 270 in village Turkel under Kalahandi Tahasil of Kalahandi District, Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. F44X4(64P/4) and is bounded between the Latitude - 20°08'39.43"N to 20°08'47.11"N and longitudes of 83°05'27.92"E to 83°05'39.84"E.
- (iii) The mining lease is an identified sairat source in the DSR. The Turkel Sand Quarry-2 sairat source will be leased out under the OMMC Rules, 2016 by Mining Officer, Kalahandi to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, topo map etc.
- (v) Whether submitted KML file of the lease area-Yes
- (vi) Whether submitted scrutiny fee-Yes of Rs. 2000/- vide a Challan Reference Id no. 35D5861A4B dt. 18.12.2023.
- (vii) Distance from nearest sanctuary/ESZ- Karlapat WLS-53.0 Km
- (viii) Whether the lease area coming in DLC report-No, NA
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-Manual
- (xi) River-Tel, Depth of sand deposition-2.0 meter
- (xii) Distance from nearest road bridge-0.62 km, village road -1.0 km
- (xiii) Whether it is part of cluster -Yes, two sand quarries i.e . Turkel Sand Quarry-1 & II are coming in single cluster and total cluster area is 10.00 Ha. FIA & EMP prepared both cluster sand quarries.
- (xiv) Whether EC obtained earlier-No.
- (xv) Date of approval of mining plan- the Joint Director of Geology, Zonal Survey, Balangir vide letter no.1545 dt.30.06.2020.
- (xvi) Production capacity per annum-16120 cum/annum (max.), total production in 5 years period-80600 cum, Geological reserve-100000 cum and Mineable reserve-86784 cum and depth of mining as per approved mining plan is 1.8 meter.

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

Whether the DSR has been prepared as per the MoEF& CC, Govt. of India Notification S.O. 3011(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020- No

- (xviii) Replenishment Study Report – For Replenishment study, the survey was done by using UAV/Drone which indicates the mineable sand deposit is around 33525 cum. 60% of the above computed mineable reserve has been taken as available mineable reserve over the area as per MoEF Notification dated 25.07.2018. Maximum of 33525 cum of sand per annum may be allowed for mining activities. 60% of the mineable reserve is 20115 cum. The maximum extraction limit as per sustainable sand mining Rule of MoEF Guideline is 20115cum.
- (xix) TOR details: Terms of Reference (TOR) has been prescribed by SEIAA, Odisha, vide letter no. SIA/OR/MIN/80758/2022 dated 11.11.2022.
- (xx) Public hearing details: Public hearing was held on dated 14.09.2022 at 10.00 AM near Chahagaon Gram Panchyat Office under Kalahandi block of Kalahandi District. During Public Hearing, about 80 local people participated and 33 suggestions/opinions were received by local citizens. Issues raised were regarding transportation of sand, transportation route, sand mining from river bed, control of vehicular emission during transportation, dust suppression measures, road development, provision of drainage facility in the village to avoid water logging problem, plantation, utilization of DMF fund for peripheral development of the village, road development and protection of environment. The amount incurred for action plan of public hearing is Rs. 50,000.
- (xxi) The Cluster EMP budget provision of Rs. 1,45,000/- (Capital Cost) & Rs. 0.75 Lakh (Recurring Cost) for Turkel-I and Rs. 1,45,000/- (Capital Cost) & Rs. 0.75 Lakh (Recurring Cost) for Turkel-II, CER Cost is Rs. 0.50Lakh/annum.
- (xxii) The Individual EMP budget provision of Rs. 1,45,000/- (Capital Cost) & Rs. 0.75 Lakh (Recurring Cost), CER Cost is Rs. 0.25Lakh/annum.
- (xxiii) Any deficiencies/omission have been noticed in the above documents- Nil
2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 11.07.2023 and the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per **Annexure – C** and following specific conditions:
- Amended EIA Notification dated 25th July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – D**.
 - Regular replenishment study as per guidelines to be conducted and report to be submitted.
 - Provision of Bio-toilet shall be made at the site.
 - Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.
 - Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.
 - Bridge is of 1km length and about 200meter from the lease area. As per Enforcement and Monitoring Guidelines for Sand Mining 2020 "Sand and gravel shall not be extracted up to a distance of 1 kilometer from major bridges and highways on both sides, or 5X of the length of the bridge on the upstream side and 10X on downstream side". Taking this criteria, sand extraction shall be permitted leaving the Non Mining zone as Safety zone from the bridge.



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

Decision Of Authority: ADS

After detailed deliberations in the matter, the Authority decided that the PP is required to comply with the observation of point no. (f) of SEAC which reproduced below: i.e. "Bridge is of 1km length and about 200meter from the lease area. As per Enforcement and Monitoring Guidelines for Sand Mining 2020 "Sand and gravel shall not be extracted up to a distance of 1 kilometer from major bridges and highways on both sides, or 5X of the length of the bridge on the upstream side and 10X on downstream side". Taking this criteria, sand extraction shall be permitted leaving the Non Mining zone as Safety zone from the bridge

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

PARIVESH I.O, AGENDA No.160.01

| | |
|---|--|
| Proposal No. | SIA/OR/INFRA2/452328/2023 |
| Date of application | 15.11.2023 |
| File no. | 452328/518-INFRA2/11-2023 |
| Project Type | New EC proposal |
| Category | B |
| Project/Activity including Schedule No. | 8(a) Building & Construction |
| Name of the Project | Proposal for EC mining of Residential Project at Mouza Uttarmundamuhan, Tehsil-Jatani, District-Khurdha; Odisha by M/s Acreplex Realty Pvt Ltd |
| Name of the company/Organization | Acreplex Realty Private Limited Sri Shashikant Barik |
| Location of Project | Mouza Uttarmundamuhan, Tahasil – Jatani, District – Khurdha |
| ToR Date | NA |
| Name of the Consultant | M/s Grass Roots Research & Creation India (P) Ltd., Noida, U.P. |

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s. Acreplex Realty Private Limited for Residential Project over an area 181539.58 sq.m at Mouza Uttarmundamuhan, Tahasil – Jatani, District – Khurdha of Sri Shashikant Barik.
2. **Category:** This project falls under Category "B", Project or Activity 8(b) – Townships and Area Development projects as per EIA Notification dated 14th Sept, 2006 as its amendments.
3. **TOR details:** Terms of Reference was issued by SEIAA, Odisha vide File No. SIA/OR/INFRA2/447018/2023 dated 08.11.2023 for the proposed project.
4. **Location and connectivity:** The proposed project is located at Plot No. 419,437/ 1078, 425, 440, 422, 423/2294, 421, 420, 414, 441, 426/4153, 430/4152, 426/3487; 426/4139, 426, 426/1203, Mouza – Uttarmundamuhan, Tahasil – Jatani, District – Khurdha, Odisha The geographical co-ordinates of project site are 20°13'17.87"N and 85°43'28.94"E and Kisam of land is Gharabari. The nearest highway is NH-57 is 10 km towards SW direction, NH-16 is 0.20 km towards N direction, NH-316 is 13 km towards E direction, & SH-13 is 7 km towards S direction. The nearest Railway Station being Bhubaneswar Railway Station & Retang Railway Station are about 13 km (ENE) & 5 km (ESE) away from the project site. Biju Patnaik International Airport is at 10 km (ENE) from project site. Bhargavi River is 14Km I from project site. Daya River is 9.8 Km (SE) of project site. Daya canal is 7 Km I of project site, Eco sensitive Zone of Chandaka Dampara Wildlife Sanctuary is 5.90 km.
5. Total Plot area measures 23,318.25 m² and the proposed built-up area is 1,81,539.58m².
6. There will be a residential tower of 1008 dwelling units with swimming pool and other commercial facilities. The maximum height of residential tower will be 113.95 m.
7. **Area Statement:**

| S. No. | PARTICULARS | AREA (sq.m.) |
|--------|--|--------------|
| i) | Total plot area | 23,318.25 |
| ii) | Permissible Ground coverage (@40% of plot area) | 9,327.3 |
| iii) | Proposed Ground coverage (@30% of the plot area) | 6993.16 |
| iv) | Permissible FAR (@7.0 of the Net plot area) | 1,63,227.96 |



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

| | | |
|------|--|--------------------|
| v) | Proposed FAR (@ 5.43 of Net plot area) | 1,26,672.59 |
| vi) | Non-FAR area | 54,866.99 |
| vii) | Total Built-up Area | 1,81,539.58 |

8. The total population of project after proposed will be 7711 persons.
9. **Water requirement:** The total water requirement will be met through Bore well which is approx. 919 KLD out of which total domestic water requirement is 872 KLD. The total fresh water requirement is approx. 596 KLD.
10. **Wastewater details:** The project will generate approx. 757 KLD of wastewater. The wastewater will be treated in an onsite STP of 757 KLD capacity. The treated effluent will be reused for flushing and horticulture. Surplus treated effluent will be discharged to external sewer.
11. **Rainwater harvesting details:** Total 10 nos. of Rainwater harvesting pits of 12m³ capacity will be constructed at different locations for storage of rain water.
12. **Parking details:** Total parking area proposed for the project is 38,331 m².
13. **Power Requirement:** The requirement load for the project will be 4558 KVA. The power supply will be supplied by State Electricity Board. There is provision of 3 nos. of DG sets total 2375 kVA (1 x 1250 + 1 x 625 + 1 x 500 kVA) capacity for power back up. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.
14. **Solid waste generation:** The total solid waste generation will be 3472kg/day for the proposed project.
15. **Greenbelt:** Total green area measures 5074.98m² i.e. 21.8% of the net plot area. No. of trees required = 1 tree/80 sqm of plot area 23,318.25/80 = 291 nos. Total no. of trees proposed = 291 trees.
16. **Baseline Study** – The baseline environment study for the project has been done during Post monsoon season (March to May, 2023) by an NABL accredited and MoEFCC approved lab (GRC India Training & Analytical Laboratory).
17. **Project cost:** Total estimated cost of the proposed project is Rs. 500 Cr. Including land and development cost.
18. **Environment Consultant:** The Environment consultant M/s. Grass Roots Research & Creation India (P) Ltd., Noida along with the proponent made a presentation on the proposal before the Committee.
19. The SEAC in its meeting held on 02-12-2023 recommended the following:
 - A. **The proponent may be asked to submit the following for further processing of EC application:**
 - i) Since, the project site is a lowland area, the proponent has to take adequate steps for drainage discharge of storm water.
 - ii) Revisit the calculation for Rainwater harvesting pits and design accordingly to store the total rain water.
 - iii) In the standard TOR point no.16 the nearest railway station to the project site is mentioned as Bhubaneswar Railway Station. However, the nearest major railway station to the site is Khordha Road railway station.
 - iv) Revisit the water balance w.r.t. consumption and waste water generation.
 - v) Structural stability certificate vetted by institute of repute.
 - vi) Traffic Study report to be vetted by institute of repute.
 - B. **The proposed site shall be visited by Sub-Committee of SEAC to verify the followings**
 - i) Environmental settings of the project site.
 - ii) Extent of construction activity.
 - iii) Road connectivity to the project site.



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

- (iv) Drainage network at the site.
- (v) Discharge point for discharge of treated water and distance of the discharge point from the project site.
- (vi) Greenbelt area.
- (vii) Any other issues including local issues

20. The proponent has furnished the compliance and the SEAC verified the same as follows:

| Sl. No. | Information Sought by SEAC | Compliance furnished by the proponent | Views of SEAC |
|---------|--|---|--|
| 1. | Since, the project site is a lowland area, the proponent has to take adequate steps for drainage discharge of storm water. | In order to avoid water logging at site due to Storm Water, we have kept the level of our site 1.4 m above the abutting road level. | - |
| 2. | Revisit the calculation for Rainwater harvesting pits and design accordingly to store the total rain water. | The revised rainwater harvesting calculations are enclosed as Annexure-I . | Revised 10 RWH tanks of 89 m ³ capacity each are proposed to collect rainwater taking into consideration mean monthly rainfall 180mm |
| 3. | In the standard TOR point no.16 the nearest railway station to the project site is mentioned as Bhubaneswar Railway Station. However, the nearest major railway station to the site is Khordha Road railway station. | We have corrected the nearest Railway Station as Khordha Road railway station which is at 7.75 km (SSW) away from the project site. | - |
| 4. | Revisit the water balance w.r.t. consumption and waste water generation. | The revised water balance is enclosed as Annexure-II . | In revised water balance, 333KLD of waste water will be discharge to drain in summer and 351KLD of treated water in Monsoon. Whereas, in previous water balance submitted during presentation, 383KLD of waste water in summer and 374KLD in Monsoon was calculated/proposed to be discharge into the nearest drain. |
| 5. | Structural stability certificate vetted by institute of repute. | Structural Stability certificate vetted by IIT, Bhubaneswar is enclosed as Annexure-III . | --- |



Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

| 6. | Traffic Study report to be vetted by Institute of repute. | Traffic Study report vetted by KIIT is enclosed as Annexure-IV. | Only the forecasted (for next 10years) V/C has been calculated as LOS C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|--|--|--------|---------|------------------------|----|------------|---------------------------------|----|---------------|----------------------------------|----|------------|-----------------------------------|--------|--|--|--------|-------|------------------------|----|----------------|--------------------------|----|------------|-----------------------------|----|------------|---------------------------|---------------------------------|
| The proposed site shall be visited by Sub-Committee of SEAC to verify the followings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Environmental settings of the project site. | <p>The project site is devoid of any trees.</p> <p>10 km study area:</p> <p>Chandaka Dampara WLS is 6.8 km away and project site is 0.1 km outside the ESZ of Sanctuary.</p> <p>Following forests and rivers are present in study area –</p> <table border="1" data-bbox="762 719 1286 1256"> <thead> <tr> <th colspan="3" style="text-align: center;">Forests</th> </tr> <tr> <th style="text-align: center;">S. No.</th> <th style="text-align: center;">Forests</th> <th style="text-align: center;">Distance and direction</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Barunai RF</td> <td>9 km (SW) from the project site</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Medhashala RF</td> <td>5 km (ESE) from the project site</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Ghatika PF</td> <td>5.5 km (NE) from the project site</td> </tr> </tbody> </table> <table border="1" data-bbox="762 1317 1286 1742"> <thead> <tr> <th colspan="3" style="text-align: center;">Rivers</th> </tr> <tr> <th style="text-align: center;">S. No.</th> <th style="text-align: center;">River</th> <th style="text-align: center;">Distance and direction</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Bhargavi River</td> <td>14Km (E) of project site</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Daya River</td> <td>9.8 Km (SE) of project site</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Daya canal</td> <td>7 Km (E) of project site.</td> </tr> </tbody> </table> | Forests | | | S. No. | Forests | Distance and direction | 1. | Barunai RF | 9 km (SW) from the project site | 2. | Medhashala RF | 5 km (ESE) from the project site | 3. | Ghatika PF | 5.5 km (NE) from the project site | Rivers | | | S. No. | River | Distance and direction | 1. | Bhargavi River | 14Km (E) of project site | 2. | Daya River | 9.8 Km (SE) of project site | 3. | Daya canal | 7 Km (E) of project site. | Additional ADS submitted by PP. |
| Forests | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3. | Daya canal | 7 Km (E) of project site. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Extent of construction activity. | There is no construction at site till date. | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Road connectivity to the project site. | The project site is well connected through NH-16 (approx. 0.2 km in North direction) | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Drainage network at the site. | The surplus treated water from STP will be discharged to the nala adjacent to project site. The permission for discharge & | Copy submitted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Minutes of 160th Meeting of SEIAA, Odisha held on 12.03.2024

| | | | |
|----|---|---|--|
| | | drainage plan are enclosed as Annexure-V. | |
| 5. | Discharge point for discharge of treated water and distance of the discharge point from the project site. | The surplus treated water from STP will be discharged to the nala adjacent to project site. The permission for discharge & drainage plan are enclosed as Annexure-V. | -do- |
| 6. | Greenbelt area. | As per suggestion of SEAC, we have proposed 5074.98 sqm (21.8 % of Plot area) as greenbelt area. The landscape plan is enclosed as Annexure-VI. | Revised green belt comes to be 5074.98sqm (21.8 % of Plot area). |
| 7. | Any other issues including local issues | None. | --- |

21. The proposed site was visited by the sub-committee of SEAC on 26.12.2023. Following are the observations of the sub-committee:

- The Residential Project site is located by the side of National High Way No 16 in between Bhubaneswar and Khordha. The team were present along with consultant and explained the layout.
- There is no construction at present; it is empty land without house.
- PP needs to obtain permission from the authority for discharge of excess treated water and storm water to the nearby NALA including any construction required for the same to the NALA at a distance of about 100-150 mt away along with drainage plan approved by the authority. Permission from NH authority is required in case they plan to discharge to the NH side drain.
- PP needs to submit copy of POA mentioning the revenue plots with copy of relevant revenue map for their use.
- PP to revise greenbelt to be minimum 20% and inform the width of fire corridor as per fire authority requirement.
- All other points asked during presentation to be complied.

22. The project proponent has submitted the required information / documents as desired by the sub-committee of SEAC during the site visit as follows:

| Sl. No. | Information Sought by SEAC | Compliance furnished by the proponent | Views of SEAC |
|---------|---|---|---------------|
| a) | Provide plan showing Fire corridor should be of 6.5 m. | The fire fighting plan showing fire corridor is enclosed as Annexure-VII. | --- |
| b) | Submit the power of Attorney mentioning revenue plots and mark the revenue plots of Power of attorney on revenue map. | The Power of Attorney mentioning revenue plots and the revenue map marked with revenue plots are enclosed as Annexure -VIII. | --- |
| c) | Lower the excess treated water and show car washing. | The revised water balance is enclosed as Annexure-II. | --- |
| d) | Greenbelt Area to be increased to 20%. | As per suggestion of SEAC, we have proposed 5074.98 sqm (21.8% of Plot area) as greenbelt area. The landscape plan is enclosed as Annexure-VI. | --- |

Considering the information furnished and the presentation made by the consultant, **M/s Grass Roots Research & Creation India (P) Ltd., Noida, U.P.** along with the project proponent, Any

deficiencies/omission have been noticed in the above documents- Nil

Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 29.01.2024 and the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – A** in addition to the following specific conditions.

- i) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- ii) The project proponent shall obtain permission from the concerned authority for discharge of excess treated water and storm water to the nearby NALA including any construction required for the same to the NALA at a distance of about 100-150 mt away along with drainage plan approved by the authority. Permission from NH authority shall also be taken in case they plan to discharge to the NH side drain.
- iii) The project proponent has submitted approval of the Chief Engineer drainage Ref.BP.BDA.2023-07-01-018744 of the Bhubaneswar Development Authority. The PP must ensure compliance with the stipulated mandatory condition that the plinth / setback level to be minimum 0.6 m above the road level for preventing water logging in the project area. Other stipulated conditions in the above-mentioned approval that inter alia includes construction of additional rainwater harvesting structures other than 10 nos. already proposed etc. also needs to be complied. The PP also must ensure proper land surface access / right for constructing the discharge drain from the project site to the approved discharge points.
- iv) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.
- v) The proponent shall obtain permission from concerned Fire Safety Authority.
- vi) Trees located within the project area shall be transplanted to alongside the boundary green development area.
- vii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
- viii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.
- ix) The proponent shall develop greenbelt over 5074.98 sqm (21.8% of Plot area) as proposed.
- x) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.
- xi) The proponent shall obtain permission from Water Resources department, Odisha for use of ground water.

Decision of Authority: Approved

After detailed deliberations in the matter, the Authority decided to allowed EC for this area development project with standard and specific conditions reaccommodated by SEAC.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


12.03.24
Chairman, SEIAA