



सत्यमेव जयते

File No.: 466854/19-MINB1/03-2024

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority (SEIAA),  
ODISHA)

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Dated 27/01/2025



To,

SRI MANOJ AGRAWALLA  
At- Pabitrāmohan Marg, PO- Talcher Town, Telephone Exchange, Dist- Angul, Pin- 759107  
shreesaiinfapvtltd@gmail.com

**Subject:** Grant of prior Environmental Clearance (EC) to the proposed Mining Project of Erada Devi River Sand Bed to Sri Manoj Agrawalla under the provisions of EIA Notification 2006-regarding

**Sir/Madam,**

This is in reference to your application submitted to SEIAA, Odisha vide proposal number SIA/OR/MIN/466854/2024 dated 22/03/2024 for grant of prior Environmental Clearance (EC) to the project of Erada Devi River Sand Bed over an area of 15.00 acres or 6.070 hectares at Village-Erada, Tahasil-Naugaon, District-Jagatsinghpur, Odisha to Sri Manoj Agrawalla, the successful bidder under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B0108OR5821161N
(ii) File No.	466854/19-MINB1/03-2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	PROPOSAL FOR GRANT OF EC OF ERADA DEVI RIVER SAND BED OVER AN AREA OF 15.00 ACRES OR 6.070 HECTARES AT VILLAGE-ERADA, TAHASIL-NAUGAON, DISTRICT-JAGATSINGHPUR, ODISHA
(ix) Location of Project (District, State)	JAGATSINGHPUR, ODISHA
(x) Issuing Authority	SEIAA, Odisha
(xii) Applicability of General Conditions	No

3. In view of the particulars given in the Para-1 above, the project proposal interalia including Form-2, EIA/EMP including Proceeding of Public Hearing were submitted to the SEAC for an appraisal by the State Level Expert

Appraisal Committee (SEAC) under the provision of EIA notification 2006 and its subsequent amendments thereto.

4. The above-mentioned proposal has been considered by SEAC in its meeting held on 13.08, 2024. The minutes of the meeting and all the project documents are available on Parivesh portal which can be accessed from the Parivesh portal by scanning the QR Code above. Brief description of the project is as under.
5. Details of the minerals to be mined along with production capacity and the brief on the salient features of the project as submitted by the project proponent in Form- 2 in the reports and presented before SEAC are annexed to this EC as **Annexure- 2**.
6. The SEAC in its meeting held on 13.08.2024, based on information submitted viz: Form-2, EIA/EMP report, Public Hearing proceeding and commitment etc. & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below.
7. The The State Environment Impact Assessment Authority (SEIAA), Odisha has examined the proposal in 178<sup>th</sup> meeting held on 30.10.2024 in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the SEAC hereby accords Environment Clearance for the instant proposal for “extraction of sand from Erada Devi River Sand Bed over an area of 15.00 acres or 6.070 hectares at Village-Erada, Tahasil-Naugaon, District-Jagatsinghpur, Odisha to M/s. Sri Manoj Agrawalla under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in **Annexure-1**.

#### **Stipulations**

##### **Sl. Descriptions**

##### **Stipulation**

- |                                |  |
|--------------------------------|--|
| (i) Lease Area:                | 15.00 Acres or 6.070 Ha.   |
| (ii) No Mining Zone:           | (i). The PP shall maintain safety and stability of Riverbanks i.e. 3 meter or 10% of river width whichever is more for protection of river bank and<br>(ii). 7.5-meter safety zone from all sides of lease boundary.<br>(iii). No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations. |
| (iii) Maximum Depth of Mining: | of 0.4 meter as per the approved ARRS report   |
| (iv) Method of Mining:         | <b>Manual</b> as per approved mining plan  |
| (v) Permitted Quantity:        | <b>9900 cum/annum</b> as per Annual Rate of Replenishment Study (ARR) report   |
| (vi) Validity Period of EC:    | The validity of EC is for 5 years or for the validity of lease period whichever is earlier.  |
| (vii) ARRS report              | The PP shall carry out the ARRS study through a NABET or ORSAC empanelled agency in subsequent year and submit to SEIAA, Odisha.   |

8. The SEIAA, Odisha reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. Validity of EC for 5 years or for the validity of lease period whichever is earlier.

#### **12. General Instructions:**

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of SEIAA website where it is displayed.

2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
3. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
5. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
6. The compliance of EC conditions of said quarry shall be monitored by DEIAA, concerned lease granting Authority either Mining Officer or Tahasildar, RO, SPCB, Odisha and Integrated Regional Office of MoEFCC, Bhubaneswar as per MoEF & CC, Govt. of India S.O. 141(E) in EIA Notification dated 15.01.2016. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
7. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. This issue with an approval of the Competent Authority.

**Copy To**

1. Principal Secretary, Forest, Environment & Climate Change Dept., Government of Odisha for information.
2. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
3. The Director of Mines, Steel & Mines Dept, Govt. of Odisha Bhubaneswar for information.
4. Additional Principal Conservator of Forests, Integrated Regional Office (IRO), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for information.
5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi-110032 for information.
6. Chairman/Member/Member Secretary, SEIAA for information.
7. Member Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for information.
8. Collector & DM, Jagatsinghpur, Sub-Collector, Jagatsinghpur, Deputy Director of Mines, Jagatsinghpur, DFO, Kendrapada, RO, SPCB, Pardeep, Tahasildar, Naugaon/Mining Officer, Jagatsinghpur for Information and necessary action.
9. Guard file for record/Website/Parivesh Portal

**Annexure 1**

**Specific EC Conditions for (Mining Of Minerals)**

**1. Environmental Conditions And Safeguards Which Need To Be Complied With By The Tahasildar/mining Officer Before Executing Lease Agreement:**

S. No	EC Conditions
1.1	<p>1. <b>Boundary Demarcation:</b> - The boundary of the lease area shall be demarcated on ground at the project cost, by erecting 1.20 meter (4 feet approx.) high reinforced concrete pillars above ground, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates by any empanelled agency of ORSAC.</p> <p>2. <b>Digital Map:</b> -A digital map (in KML format as well as PDF version) showing GPS coordinates of all boundary pillars duly countersigned by the Tahasildar/Mining officer shall be submitted to SEIAA, Odisha through email at <a href="mailto:seiaaodisha@gmail.com">seiaaodisha@gmail.com</a>.</p> <p>3. <b>Intimation of EC:</b> -The copies of the EC shall be sent to the Sarpanch (s) of the concerned Gram Panchayat (s), Urban Local Bodies and relevant other Offices of the Government with a request to display the same for 30 days from the date of receipt. The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and Climate Change (<a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a>). A copy of the advertisement may be forwarded to the concerned MoEF&amp;CC Regional Office for compliance and record.</p> <p>4. <b>Tree Plantation:</b> -The PP shall plant <b>250 nos. of tree species</b> like Banyan (Ficus benghalensis), Peepal(Ficus religiosa), Neem (Azadirachta indica), Jamun(Syzygium cumini), Mango(Mangifera indica), Karanj(Pongamia pinnata), Arjun(Terminalia Arjuna), Jackfruit (Artocarpus heterophyllus), Siris (Albizia lebbek), etc.. as part of tree plantation campaign "<b>Ek Ped Maa Ke Naam</b>" and the details of the same shall be uploaded in the MeriLiFE Portal (<a href="https://merilife.nic.in">https://merilife.nic.in</a>).The PP shall submit the status of plantation during every six-months (06) compliance of EC conditions with geo-coordinating photographs.</p> <p>5. <b>State EMF Fund:</b> - An amount equal to five percent (5%) of the royalty payable shall be collected from the lessee by the Tahasildar/Mining Officer and deposited to the State Environment Management Fund, which will be utilized as per provisions of Rule 49(3) of the OMMC Rule, 2016 preferably, in and around the areas where mining activities are undertaken.</p> <p>6. <b>Condition by Collector:</b> - Any other condition(s) the Collector &amp; Chairman, District Environment Impact Assessment Authority (DEIAA), may impose in the interest of protection and safeguarding the local environment.</p> <p>7. <b>Compliance report for Transfer of EC:</b> - Any transfer of EC to a PP/Lessee shall be considered by SEIAA, Odisha only after receipt of the full compliance report through Tahasildar/Mining Officer concerned of the above environmental conditions and safeguards.</p> <p>8. <b>Other conditions/NOC:-</b> Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee.</p>

**2. Environmental Conditions And Safeguards Which Need To Be Complied On Field After The Lease Agreement:**

S. No	EC Conditions
2.1	<ol style="list-style-type: none"> <li>1. The Sand extraction shall be limited to quantity and depth as per replenishment study report. Regular replenishment study as per guidelines to be conducted and report to be submitted.</li> <li>2. Provision of Bio-toilet shall be made at the site.</li> <li>3. Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha &amp; W.R. Department of Government of Odisha as well.</li> <li>4. Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.</li> <li>5. The project proponent shall ensure that the biological clock of the villagers is not disturbed. The floodlights should be oriented away from the villagers and the noise levels should be kept within the prescribed limit for day light/night hours.</li> <li>6. No natural water course shall be obstructed or diverted for the purpose of sand mining.</li> </ol>
2.2	<p><b>Maximum permissible depth:</b> This Environmental Clearance is given with the condition that maximum depth of digging of sand shall be <b>0.4 m</b> as per ARRS report. Any flouting of this restriction shall make this EC liable to cancellation</p>
2.3	<p><b>Maximum permissible quantity:</b> Maximum yearly quantity of extraction from the quarry shall not exceed the annual limit as specified above under stipulation in Table 'A stipulations'-sl. A(v) i.e. <b>9900 cum/annum</b> as per Annual Rate of Replenishment Study (ARRS) report. Any flouting of this quantitative restriction shall make this EC liable to cancellation</p>
2.4	<p><b>Annual Replenishment Rate Study of Sand:</b> -The Project Proponent shall carry out Annual Rate of Replenishment study of sand by ORSAC empanel agency or NABET Consultant as per prescribed drone method of MoEF &amp; CC, Govt. of India by collecting pre monsoon &amp; post monsoon data from the field to know the quantum of volume of sand deposited/replenished &amp; extracted in the mining lease area. The detailed comparison of both pre-monsoon and post-monsoon elevation data shall be included in the study report. The detailed methodology for finding the rate of replenishment study of sand is laid down in the Enforcement &amp; Monitoring Guidelines for Sand Mining, 2020 issued by the MoEF &amp; CC, Govt. of India. The finding of the study shall be submitted to SEIAA to assess the actual rate of replenishment of mined out sand in the lease area. PP shall carry out Annual Rate of Replenishment Study (ARRS) through ORSAC empanel agency in every year and submit the report to SEIAA, Odisha during submission of EC compliance with attaching real-time geo-coordinating photographs both pre and post monsoon data collection time</p>
2.5	<p><b>No change in the mining plan without prior approval of SEIAA:</b> - Any change in the calendar plan, change in production quantity or method of mining shall not be made without prior approval of the SEIAA. Mining activity shall adhere to the working parameters of the approved mining plan prepared for this project. The detailed production of sand from the lease area of each year shall be submitted in tabular form during submission of compliance report</p>
2.6	<p><b>Environmental Management Plan:</b> EMP shall be implemented by PP to ensure compliance with the environmental conditions specified above. The year wise funds earmarked for environmental protection measures shall be kept in a separate account and shall be spent according to the plan proposed in EMP. The PP will implement the EMP with a budgetary</p>

S. No	EC Conditions
	allocation of <b>Rs.3.5 Lakh (Capital cost) &amp; Rs. 2.05 Lakhs / annum as recurring cost and CER cost of Rs. 0.45 Lakhs/annum.</b> Year wise progress of implementation of EMP shall be reported to the SEIAA, Odisha and OSPCB along with the compliance report. The Tahasildar/Mining Officer shall ensure the compliance of this condition along with all leaseholders of his jurisdiction
2.7	<p><b>Common Forum for EMP:-</b> All the individual quarry lessee holders coming under the Tahasil may create a common forum in coordination with the Tahasildar/ Mining Officer and contribute funds to it for grading, compaction and maintenance of haulage road, provision of water spray on the village road to control particulate matter (dust particles) pollution in surrounding air during transportation from the quarry, and provision of thick, multilayer and a continuous green belt around the lease area excluding the entry and exit gate for prevention of environmental pollution and noise during mining activity.</p>
2.8	<p><b>No Working Zone: -</b> The lessee shall ensure that no sand mining is carried out in the areas as specified below: -</p> <ul style="list-style-type: none"> <li>• During the rainy season;</li> <li>• Within the water channel or stream flow area throughout the year;</li> <li>• Mining shall not be undertaken in a mining lease located in 200-500 meter of bridge, 200 meter upstream and downstream of water supply/irrigation scheme, 100 meter from the edge of National Highway and railway line, 50 meter from a reservoir, canal or building, 25 meter from the edge of State Highway and 10 meter from the edge of other roads except on special exemption by the Sub-Divisional level Joint Inspection Committee.</li> <li>• The mining or any ancillary activity shall not in any way disturb the flow pattern of the river water during the non-monsoon period.</li> <li>• No stream shall be diverted for the purpose of sand mining and no natural water course shall be obstructed.</li> <li>• Sand mining operations shall not affect the existing sources for irrigation / drinking water / industrial purposes.</li> <li>• The natural sand dunes, if any, near or surrounding the lease area shall not be disturbed</li> </ul>
2.9	<p><b>Transport Safeguards:</b></p> <ul style="list-style-type: none"> <li>• No transportation of the minerals shall be allowed on any road passing through villages/habitations without prior explicit permission.</li> <li>• Transportation of minerals through existing rural roads can be allowed only by the concerned Govt. Department/ Gram Panchayat/BDO after required strengthening such that the carrying capacity of the road is increased to handle the mineral carrying truck traffic. The project proponent shall bear the cost towards the widening and strengthening of existing public roads in case the same is proposed to be used for the project.</li> <li>• Project proponents shall ensure that the transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and traffic density.</li> <li>• Vehicles hired for transportation of minor minerals from the site should be in good condition and should have pollution check certificates and should conform to applicable air and noise</li> </ul>

S. No	EC Conditions
	<p>emission standards and should be operated only during non-peak hours. Speed of vehicle be regulated and in no case &gt;30 Kms / hr be allowed.</p> <ul style="list-style-type: none"> <li>The vehicles shall not be overloaded and shall be covered with Tarpaulin. The Tahasildar/ Mining Officer may collect an appropriate additional road maintenance levy from the lessee as part of the lease conditions on the basis of quantum of mineral transported, and utilize the proceeds of the levy for proper maintenance of the extraction paths and roads to prevent their degradation on account of plying of mineral carrying trucks.</li> <li>Water spraying should be made on the village road to control particulate matter (dust particles) pollution in surrounding air during transportation from the quarry. Garland drain shall be constructed on the hill slope to arrest downward flow of particulate matter with rainwater</li> </ul>
2.10	<p><b>Other Environmental Conditions:</b> -The Project Proponent shall follow all the provisions of Sand Policy of Govt. Of Odisha dated 02.09.2021 for this sand mining project.</p> <ul style="list-style-type: none"> <li>The Tahasildar/ Mining Officer shall take adequate measures to prevent unauthorized mining;</li> <li>The project proponent should carry out river bed sand mining manually by engaging local laborers to check over exploitation of sand at the source;</li> <li>The lessee shall ensure safety of human life and livestock from accidents in case the village / any habitation is very near the mining lease area.</li> <li>At the end of mine closure, the proponent shall immediately remove all the sheds put up in the quarry and all the equipment in the area before closure of the quarry</li> </ul>
2.11	<p><b>Half-yearly Compliance Report:</b> -It shall be mandatory for the project management to submit half yearly compliance reports on the status of implementation of the above stipulated environment. The project authority is mandatory <b>to upload</b> the compliance report of EC conditions including results of monitored data, as applicable in the website of the Ministry for monitoring of EC Conditions. No hard copy and soft copy required to submit to SEIAA, Odisha, failing which EC is liable to be revoked</p>
2.12	<p><b>Concomitant Monitoring:</b> - The conditions stipulated in the environmental clearance will be closely monitored on the ground by the lease granting authority, i.e. the Tahasildar/mining officer, who shall ensure compliance of the stipulated conditions and take corrective measures promptly in case of any non-compliance and also ensure that the project proponent submits half yearly compliance reports</p>
2.13	<p><b>Independent Monitoring:</b> -The concerned Regional Office of the MoEF &amp; CC/ SPCB, Odisha shall periodically monitor compliance of the stipulated conditions as applicable for this project. The project authorities should extend full cooperation to the MoEF &amp; CC officer(s)/SPCB officer(s) by furnishing the requisite data / information / monitoring reports</p>
2.14	<p><b>Revocation of EC:</b> - The SEIAA, Odisha may revoke or suspend the EC, if implementation of any of the above conditions is not satisfactory. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection</p>

S. No	EC Conditions
2.15	<p><b>Change in Ownership of Lease:</b> - This EC shall not be transferred without the permission of SEIAA, Odisha. The Tahasildar/ Mining Officer shall inform the SEIAA of any change in ownership of the mining lease. No mining is allowed without transfer of EC as per provisions of the para 11 of EIA Notification, 2006, as amended from time to time</p>

**Additional EC Conditions**

1. The replenished quantity of sand 9900 cum/annum with depth of mining 0.4 meter as per ARRS report is approved for lease period.
2. The EC is valid for 5 years or for the lease period subject to the quantity prescribed in the modified DSR or revised Mining Plan whichever is less.
3. The PP is required to carry out the Annual rate of replenishment study (ARRS) through ORSAC empanel agency in subsequent years and submit the report to SEIAA, Odisha.
4. The PP shall implement the EMP with a budgetary allocation of **Rs.3.5 Lakh (Capital cost) & Rs. 2.05 Lakhs / annum as recurring cost and CER cost of Rs. 0.45 Lakhs/annum** as proposed in the EMP report during EC application.
5. The PP shall plant 250 nos. of tree species like Banyan (Ficus benghalensis), Peepal(Ficus religiosa), Neem (Azadirachta indica), Jamun(Syzygium cumini), Mango(Mangifera indica), Karanj(Pongamia pinnata), Arjun(Terminalia Arjuna), Jackfruit (Artocarpus heterophyllus), Siris (Albizia lebbeck), etc.. as part of tree plantation campaign "Ek Ped Maa Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>).The PP shall submit the status of plantation during every six-months (06) compliance of EC conditions with geo-coordinating photographs.
6. The compliance of EC conditions of said quarry shall be monitored by DEIAA, concerned lease granting Authority either Mining Officer or Tahasildar, RO, SPCB, Odisha and Integrated Regional Office of MoEFCC, Bhubaneswar as per MoEF & CC, Govt. of India S.O. 141(E) in EIA Notification dated 15.01.2016.
7. The Project Proponent shall upload/submit six monthly EC compliance in the Parivesh Portal of MoEF & CC., Govt. of India only failing which the EC is liable to be revoked.

**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 for Erada Devi River Sand Bed over an area of 15.00 acres or 6.070 hectares at Village-Erada, Tahasil-Naugaon, District-Jagatsinghpur of Sri Manoj Agrawalla.
2. **Category:** As per EIA Notification,2006 and its subsequent amendments, the proposed project falls under Category B in Schedule in item 1(a)- Mining of Minerals.
3. The lease is granted (Successful Bidder) in the name of Sri Manoj Kumar Agrawalla, at Village-Erada, Tahasil-Naugaon, District-Jagatsinghpur for a lease period of 5 (five) years by Tahasildar, Hatadihi vide letter no. 529 dated 29/03/2022.
4. The Mining plan has been approved Joint Director of geology, Zonal survey, Dhenkanal, Odisha vide letter no. 1163 dated 19/10/2020.
5. This is an existing mine and mining lease is an identified sairat source in the District Survey Report for River Sand of Jagatsinghpur district which has been prepared in accordance with Appendix – x, Para – 7 (iii) (a) of S.O. No – 3611(E) dated 25.07.2018 of MoEF & CC, New Delhi and approved by Collector, Jagatsinghpur on dated 04.01.2020 and the said area has been marked in page no. 20, Annexure – I, Sl. no – 11 of DSR Report.
6. **TOR details:** Terms of Reference (ToR) was issued by SEIAA, Odisha vide Letter no. - 58822/106-MINB1/02-2021 on 08/07/2021.
7. **Public hearing details:** Public hearing was conducted on 16.09.2022 at 10.30 AM at Dhana Khala near Panchyatraj high school, Erada under Naugaon Tahasil in Jagatsinghpur district. Environment Protection measures, Maintenance of approach road, concreting the roads, water sprinkling for dust suppression, avenue plantation for soil erosion, availability of sand to local people at cheaper price etc were the main issues in Public Hearing. Funds have been merged with environment management plan as per OM F. No. 22-65/2017-IA.III, dated 30.09.2020 issued by MoEF&CC. Budget allocated for CSR activities is Rs.45000.
8. **Location and connectivity:** The mine lease area is located in Khata no-895, Plot No-969(p), Village-Erada, Tahasil-Naugaon, District-Jagatsinghpur, Odisha. The proposed site is bounded by Latitude: N20°10'01.9"to N20°10'03.2", Longitude: E86°09'23.7"to E86°09'27.1" bearing topo sheet no. - 73L/3, Kissam - Nadi kissam. The Lease area is accessible from Jagatsinghpur at a distance of 9.7 km. Nearest approach road at 0.5km, nearest NH is NH-16 at a distance 33.2km; SH-60 at a distance of 11.5 km. Nearest Airport is Bhubaneswar Airport - 36.3 km. Nearest Habitation is Erada about 0.5 km. Nearest forest is Dhaltangagarh Reserve Forest at 18.1 km, SW. Nearest Railway Station - Gorakhnath Railway Station 18.7Km. Nearest Road Bridge is Galadari Bridge- 1 km, River embankment – 1km, Electric transmission Pole – 1.7km.
9. **Reserves and production:** The total Geological reserves is 1,51,757.5 cum and Mineable Reserves is 1,27,227.5 cum and the Proposed Production for the Proposed Project is 14570 cum/Annum.
10. **Replenishment study details:** The Study was carried out for pre-monsoon data on 25.06.2023 and post monsoon data on 21.11.2023 by using UAV/ Drone method as per the SSMG, 2020. As, per the calculation, **9972.955913m<sup>3</sup>** sand has been replenished annually upto a depth of **0.4 meter**
11. **Baseline study details:** Baseline Study was conducted in 1<sup>st</sup> December, 2021 to 28<sup>th</sup> February,

2022.

- a) **Air quality:** The AAQ analysis indicates that the concentration of PM<sub>10</sub> varied from 34.5 to 68.9 µg/m<sup>3</sup>, PM<sub>2.5</sub> from 14.5 to 29.6 µg/m<sup>3</sup>, SO<sub>2</sub> from 4.5 to 11.0 µg/m<sup>3</sup>, NO<sub>x</sub> from 6.4 to 14.5 µg/m<sup>3</sup>.
  - b) **Surface water quality:** All samples meet the desirable standards (pH ranges from 7.08-7.45). TDS in samples ranges from 72 mg/L to 81 mg/L. all the samples meet the permissible limit of 2000 mg/L. Total hardness in the water ranges from 48 mg/L to 54 mg/L. All the samples meet the permissible limit of 600mg/L. Calcium content in the water ranges from 8.7 mg/L to 9.8 mg/L, all the samples meet the permissible limit of 200 mg/L. Magnesium content in the water ranges from 3.9 mg/L to 4.4 mg/L, all the samples meet the permissible limit of 100 mg/L.
  - c) **Ground water quality:** The ground water analysis for all the 7 sampling stations shows that pH varied from 6.78 to 7.55, total hardness varied from 54 mg/L to 87 mg/L & total dissolved solids varied from 81 mg/L to 130 mg/L. The water samples contain chloride 14.6 mg/L to 25.9 mg/L, Ca from 9.8 mg/L to 15.7 mg/L, Magnesium varies from 4.4 mg/L to 7.1 mg/L.
  - d) **Noise study:** Noise level varies from 37.5 to 49.5 dB (A) during Day time and 35.6 to 44.6 dB (A) during Night time, which are below the prescribed limits of CPCB.
  - e) **Soil quality:** All the samples showed pH in the range from 6.75 - 7.59. Organic Matter ranges from 0.23% - 074 % in the soil samples. Nitrogen is found to be in moderate amount as it ranges from 623 mg/kg - 714 mg/kg and Phosphorous in less amount i.e. from 215 mg/kg - 261 mg/kg, whereas the Potassium is found to be ranging from 245 mg/kg - 455 mg/kg
12. **Mining method:** The mining of sand will be done by open cast manual method for excavation, capacity is Max 14570 m<sup>3</sup>/yr.
  13. **Water requirement:** Total water approx., 5 KLD will be required for different purposes like Domestic, Dust suppression, plantation purposes & sourced as per the availability.
  14. **Greenbelt development:** 50 trees per year plantation will be carried out for the proposed project.
  15. **Manpower requirement:** Total 31 nos. of manpower will be required for the proposed project.
  16. **Project cost:** Total cost of the proposed project is 20.0 Lakhs. A capital cost of 3.5 lakhs & 2.05 lakhs as EMP recurring cost.
  17. **Environment Consultant:** The Environment consultant **M/s Green Circle Inc., Vadodara** along with the proponent made a presentation on the proposal before the Committee.
  18. The SEAC in its meeting held on dated **09-05-2024** decided to take decision after receipt of the following 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	Views of SEAC
i.	Submit the RL of surface of sand bed, river water surface & river bank.	The details of RL value with GCP points and Co-ordinates of Surface of Sand Bed, River Water Surface and River Bank now has been mentioned in Table No-6 at page No10.	<b>Complied</b> Location of GCP Points (Latitude, Longitude and elevation) near Water surface Area and River Bank near the lease.

ii.	The project proponent shall submit the accuracy report errors in measurements of latitude / easting (X), longitude / Northing (Y) and elevation / azimuth (Z) of the geolocation points mentioned in the pre and post monsoon drone survey. along with the accuracy level & errors w.r.t geo-location of x, y & z.	The details of accuracy level of measurements of latitude /easting (X) longitude / Northing (Y) and elevation / azimuth (Z) is given in the Annexure No.III & IV of RSR report.	-
iii.	Revised Replenishment Report showing the mined elevation, unmined elevation and revised calculation of sand replenished. The RLs of the riverbed sand and the safe working area mentioned in the pre and post monsoon replenishment study reports need to be reconciled with those in the revised approved mining plan.	Revised Replenishment Survey report showing the mined elevation, unmined elevation in Contour image of Pre & Post monsoon maps and revised calculation of sand replenished now has been attached in page no 34 of RSR report. The RLS of the riverbed sand and the safe working area mentioned in the pre and post monsoon replenishment study reports will be reconciled during Revised mining plan.	Page 34 shows the volume of sand during Pre-Monsoon and post-monsoon survey in safe workable area along with the table showing nos of location points, easting, northing and elevation of pre-monsoon and post-monsoon.
iv.	Revised Mining Plan needed as per the Replenishment study.	Revised Mining plan will be prepared after getting permission from the Competent Authority & submit it later.	The PP has mentioned the Revised Mining Plan will be submitted later.

19. 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 13.08.2024 and the Considering the information / documents furnished by the proponent and presentation made by the consultant M/s Green Circle Inc., Vadodara, the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per **Annexure – A** in addition to the following specific conditions.

- i) 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 – B**.
- ii) Sand extraction shall be limited to quantity and depth as per replenishment study report. Regular replenishment study as per guidelines to be conducted and report to be submitted.
- iii) Provision of Bio-toilet shall be made at the site.
- iv) 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.
- v) Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.