



सत्यमेव जयते

File No.: 479227/254-MIN/06-2024

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 13/01/2025



To,

SRI SAHADEV TUMUDI  
At- Ashok Nagar near B.ED College, Dist-Koraput, ODISHA, 764021  
hordalisand@gmail.com

**Subject:** Amendment in Environmental Clearance (EC) letter no.2006/SEIAA dated 05.08.2021 granted to the project Hordali Sand Bed under the provision of the EIA Notification 2006 -regarding.

**Sir/Madam,**

This is in reference to your application submitted to SEIAA , Odisha vide proposal number SIA/OR/MIN/479227/2024 dated 05/06/2024 for grant of an amendment in prior Environmental Clearance (EC) letter no.2006/SEIAA dated 05.08.2021 to the project of Hordali Sand Bed over an area of 5.00 acres or 2.023 hectares bearing Khata No.- 457 and Plot No.- 2314 in Village Hordali, Tahasil Borigumma, District Koraput, State Odisha in respect of further extraction quantity of sand on basis of Annual rate of Replenishment (ARRS) Study report 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.	EC24C0107OR5233290A
(ii) File No.	479227/254-MIN/06-2024
(iii) Clearance Type	Amendment in EC
(iv) Category	B2
(v) Schedule No./ Project Activity	1(a) Mining of minerals Hordali Sand Bed over an area of 5.00 Acres Or 2.023 Hectares bearing Khata No.- 457 and Plot No.- 2314 in Village Hordali, Tahasil Borigumma, District Koraput, State Odisha.
(vii) Name of Project	
(viii) Location of Project (District, State)	KORAPUT, ODISHA
(ix) Issuing Authority	SEIAA, Odisha
(x) EC Date	05/06/2024
(xii) Applicability of General Conditions	NO
(xiii) Status of implementation of the project	Operating condition

1. In view of the particulars given in the Para-1 above, the project proposal interalia including Form-4 (Part A, B & C) 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.
2. The above-mentioned proposal has been considered by SEAC in its meeting held on 05.10.2024. 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 or through the following web link [click here](#).
3. The brief about the reasons for an amendment requested along with the brief on the salient features of the project as submitted by the project proponent in Form- 4 (Part A, B & C) and as presented before SEAC and the details of the amendment of EC are annexed as **Annexure- 2**.
4. The proposal was placed in the SEAC meeting held on 05.10.2024 under the provisions of EIA Notification 2006 and its subsequent amendments and after detailed deliberations in the matter and the SEAC recommend the proposal for Sand mining may be allowed for 4986 cum of sand as per ARRS report subject to approval of revised Mining plan.
5. The SEIAA, Odisha has examined the proposal in 181<sup>th</sup> meeting held on 16.12.2024 in accordance with the extant provisions of the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the SEAC and hereby accords amendment in Environment Clearance issued vide EC letter no. 2006/SEIAA dated 05.08.2021 for the instant proposal Hordali Sand Bed to Sri Sahadev Tumudi is **allowed** for extraction quantity of sand **4986 cum per annum** with **0.76m** depth of mining for the balance lease period under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of EC conditions, general instructions issued vide EC letter dated 05/08/2021 and following additional specific conditions as mentioned in **Annexure-1**. The other stipulated terms and conditions of the original EC letter initially granted remains same.

#### Stipulations

<b>Sl. Descriptions</b>	<b>Stipulation</b>
(i) Lease Area:	5.00 Acres or 2.023 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 (ii). 7.5-meter safety zone from all sides of lease boundary. (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:	0.76 meter as per the ARRS report
(iv) Method of Mining:	Manual as per approved mining plan
(v) Permitted Quantity:	<b>4986 cum/annum</b> for remaining lease period
(vi) Validity Period of EC:	The EC is valid for the balance lease period subject to the quantity prescribed in the modified DSR or revised Mining Plan whichever is less.
(vii) ARRS report	The PP shall carry out the ARRS study through a NABET or ORSAC empanelled agency in subsequent year and submit it to SEIAA, Odisha with half yearly EC compliance is mandatory.

6. **Annual Replenishment Rate Study of Sand:** -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 & CC, Govt. of India by collecting pre monsoon & post monsoon data from the field to know the quantum of volume of sand deposited/replenished & 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 & Monitoring Guidelines for Sand Mining, 2020 issued by the MoEF & 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.
7. **No change in the mining plan without prior approval of SEIAA:** - 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.

8. No Working Zone: - The lessee shall ensure that no sand mining is carried out in the areas as specified below: -

- During the rainy season;
- Within the water channel or stream flow area throughout the year;
- 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.
- The mining or any ancillary activity shall not in any way disturb the flow pattern of the river water during the non-monsoon period.
- No stream shall be diverted for the purpose of sand mining and no natural water course shall be obstructed.
- Sand mining operations shall not affect the existing sources for irrigation / drinking water / industrial purposes. The natural sand dunes, if any, near or surrounding the lease area shall not be disturbed.

9. **Transport Safeguards:**

- No transportation of the minerals shall be allowed on any road passing through villages/habitations without prior explicit permission.
- 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.
- 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.
- 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 emission standards and should be operated only during non-peak hours. Speed of vehicle be regulated and in no case >30 Kms / hr be allowed.
- 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.

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.

10. Other Environmental Conditions: -The Project Proponent shall follow all the provisions of Sand Policy of Govt. Of Odisha dated 02.09.2021 for this sand mining project.

- The Tahasildar/ Mining Officer shall take adequate measures to prevent unauthorized mining;
- The project proponent should carry out river bed sand mining manually by engaging local laborers to check over exploitation of sand at the source;
- 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.
- 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.

11. Half-yearly Compliance Report: -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 to

upload 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.

12. Concomitant Monitoring: - 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.
13. Independent Monitoring: -The concerned Regional Office of the MoEF & 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 & CC officer(s)/SPCB officer(s) by furnishing the requisite data / information / monitoring reports.
14. Revocation of EC: - 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.
15. Change in Ownership of Lease: - 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.
16. This issues with the 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, Koraput, Sub-Collector, Koraput, Deputy Director of Mines, Koraput, DFO, Koraput, RO, SPCB, Koraput, Tahasildar, Borigumma/Mining Officer, Koraput for Information and necessary action.
9. Guard file for record/Website/Parivesh Portal

**Annexure 1**

#### **Additional EC Conditions**

1. The replenished quantity of sand **4986 cum/annum** with depth of mining **0.76 m** as per ARRS report is approved for the remaining lease period.
2. The EC is valid for the balance 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 as proposed in the EMP report during EC application.
5. The PP shall plant **100 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*), Jack fruit (*Artocarpus heterophyllus*), Siris (*Albizia lebbek*), 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 uploaded/submitted six monthly EC compliance in the Parivesh Portal of MoEF & CC., Govt. of India only falling which the EC is liable to revoked.



**1. 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 amendment of EC of Hordali Sand Bed over an area of 5.00 Acres Or 2.023 Hectares bearing Khata No.- 457 and Plot No.- 2314 in Village Hordali, Tahasil Borigumma, District Koraput, State Odisha.
- (ii) The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. EC Identification No. – 2006/SEIAA dated 05.08.2021 for Hordali Sand Bed over an area of 5.00 Acres Or 2.023 Hectares bearing Khata No.- 457 and Plot No.- 2314 in Village Hordali, Tahasil Borigumma, District Koraput, State Odisha.
- (iii) During EC application the PP has submitted required documents along with mining plan where it is mentioned that mineable reserve of the proposed sand was 13266 cum with depth of sand deposition was 1.5 meter and proposed for annual extraction-2550 cum.
- (iv) The SEIAA allowed 2550 cum of sand for 1<sup>st</sup> year production with depth of mining 1.5 m.
- (v) There is an EC conditions point no. 9.1 to 9.2 in page no. 03 that “Pending carrying out of the study & submission of the report, this clearance is being granted in an adhoc manner and is liable to be revoked after one year i.e., after 15<sup>th</sup> October, 2022, if satisfactory replenishment study report is not submitted.”
- (vi) Ec was transfer in favour of Sri T. Sahadev Dora on dated 28.12.2023
- (vii) The PP has mentioned that the quarry operated last 2 years and 2550 cum of sand has been extracted from the source for the year 2021-22 and also 2550 cum in the year 2022-23.
- (viii) The PP has submitted replenishment study report was done by the M/s. Geocon Survey Pvt. Ltd. (ORSAC Empanelment Agencies) with mentioned that Pre-Monsoon Standard Elevation (SE1) = 567.53 m, post-monsoon Standard Elevation (SE2) = 568.29 m and quantity of sand replenished = **6721 cum** and proposed production is 6721 cum.
- (ix) Then, the has submitted the revised ARRS and accordingly mineable quantity should be calculated. PP created a sketch map of the sand – bearing zone, after excluding a 500-meter safety zone from the bridge, river channel, and marshy land. This exclusion resulted in a defined workable area of 6561 square meters. Map is attached as Annexure-I. Replenished sand thickness is 0.76 meters. Replenished sand reserve is  $6561 \times 0.76 = 4986$  cum. Revised mining plan approved by competent authority need to be submitted if applied quantity would be more than corresponding approved mining plan quantity. As per the approved mining plan, the production quantity is set at 2550 cubic meters. However, the replenished sand reserve has been calculated at 4986 cubic meters. Based on this updated reserve, we will prepare a modified mining plan, increasing the production capacity to **4986 cubic meters** before operation of the mine.
- (x) Any deficiencies/omission have been noticed in the above documents- Nil

1. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 05.10.2024 and the the SEAC observed the following:

- i) Initially calculation of mineable reserve was wrong for which approved mining plan was not admissible.
- ii) The proponent recalculated after excluding safety zone of 500m. Replenishment Study report is given with the maps, images and error calulations.
- iii) Replenished sand thickness is calculated 0.76 m which is same as the previous case. With

this calculation the replenished sand volume to mine is 4986cum per annum. But revised mining plan approved by authority is not provided by the proponent. Earlier mining plan had been approved in July-2020.

- iv) The proponent has informed that he will prepare a modified mining plan before operation of the mine.

The SEAC decided to recommend the proposal as per the Replenishment Study Report with **4986cum** of sand subject to submission of approved mining plan excluding safety zone of 500m.

