



सत्यमेव जयते

File No:
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA),
ODISHA)



Dated 26/12/2024



To,

Sri Nardeep Singh Khanduja
Tahasildar, Khariar
Tahsil Office, At/Po/Dist- Nuapada , Haldi, NUAPADA, ODISHA, , 766105
tahsildar.nuapada@rediffmail.com

Subject: Grant of Environment Clearance (EC) under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application number SIA/OR/MIN/469048/2024 dated 24/05/2024 submitted to SEIAA, Odisha for Grant of EC to the project of Haldi Sand Quarry - 3 over an area of 4.997 Ha or 12.35 Acre bearing Khata No.- 175 and Plot No.- 1 located at village Haldi, Tahasil and District - Nuapada in favor of Sri Nardeep Singh Khanduja, the successful bidder under the provision of the EIA Notification 2006-regarding.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24C0107OR5481865N
(ii) File No.	
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Haldi Sand Quarry - 3 is a sand mining project over an area of 4.997 Ha or 12.35 Acre bearing Khata No.- 175 and Plot No.- 1 located at village Haldi, Tahasil and District - Nuapada in favor of Lessee Sri Nardeep Singh Khanduja.
(viii) Name of Company/Organization	Sri Nardeep Singh Khanduja
(ix) Location of Project (District, State)	Khariar Road, Jonk, Nuapada, Odisha-766104
(x) Issuing Authority	SEIAA, Odisha
(xii) Applicability of General Conditions	no
(xiii) Applicability of Specific Conditions	no

3. In view of the particulars given in the Para-1 above, the project proposal interalia including Form-2 along with cluster EIA & EMP and individual EMP 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 01.02.2024. 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. The 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 01.02.2024, based on information submitted viz: Form-2, EIA & EMP report 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 State Environment Impact Assessment Authority (SEIAA), Odisha has examined the proposal in 172nd meeting held on 16.07.2024 & 18.07.2024 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 Haldi Sand Quarry - 3 over an area of 4.997 Ha or 12.35 Acre bearing Khata No.- 175 and Plot No.- 1 located at village Haldi, Tahasil and District - Nuapada, Odisha to Sri Nardeep Singh Khanduja 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:	12.35 Acres or 4.997 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:	0.5 meter as per the approved mining plan
(iv) Method of Mining:	Manual method of Mining
(v) Permitted Quantity:	15000 cum for 1st year 15000 cum for 2nd year
(vi) Validity Period of EC:	The EC is valid for the lease period subject to the quantity prescribed in the modified DSR or revised Mining Plan whichever is less.
(vii)ARRS report	The PP shall carryout the ARRS study in subsequent year through an NABET or ORSAC empanelled agency and submit the ARSS study report to SEIAA, Odisha by 31st March, 2026 .

8. The SEIAA, Odisha reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
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 EC 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.

11. The PP is under obligation to implement commitments made in the Environment Management Plan (EMP) of **Rs. 1.20 Lakh** (Capital cost) and **Rs. 2.35 Lakh/annum** (Recurring cost) which and **CER cost of Rs. 1.00 Lakh** forms part of this EC.

12. General Instructions:

- 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.
- 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.
- 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.
- Action plan for implementing EMP and environmental conditions along with a 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 a separate account and not to be diverted for any other purpose. Six monthly progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
- 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.
- The Regional Office of MoEF & CC, Bhubaneswar, SPCB, Odisha and the lease granting Authority shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- 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 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, Nuapada, Sub-Collector, Nuapada, Deputy Director of Mines, Nuapada, DFO, Nuapada, RO, SPCB, Nuapada, Tahasildar, Khariar/Mining Officer, Nuapada for Information and necessary action.
9. Guard file for record/Website/Parivesh Portal

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	Boundary Demarcation: - 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.
1.2	Digital Map: -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 seiaaodisha@gmail.com.
1.3	Intimation of EC: -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 (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record.
1.4	Tree Plantation: -The PP shall plant 240 no. of plants of native species within 2 years in a suitable location adjoining the quarry or any suitable location consultation with concerned DFO, Mining Officer and Tahasildar.
1.5	State EMF Fund: - 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.
1.6	Condition by Collector: - Any other condition(s) the Collector & Chairman, District Environment Impact Assessment Authority (DEIAA), may impose in the interest of protection and safeguarding the local environment.
1.7	Compliance report for Transfer of EC: - 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.
1.8	Other conditions/NOC:- 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.

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

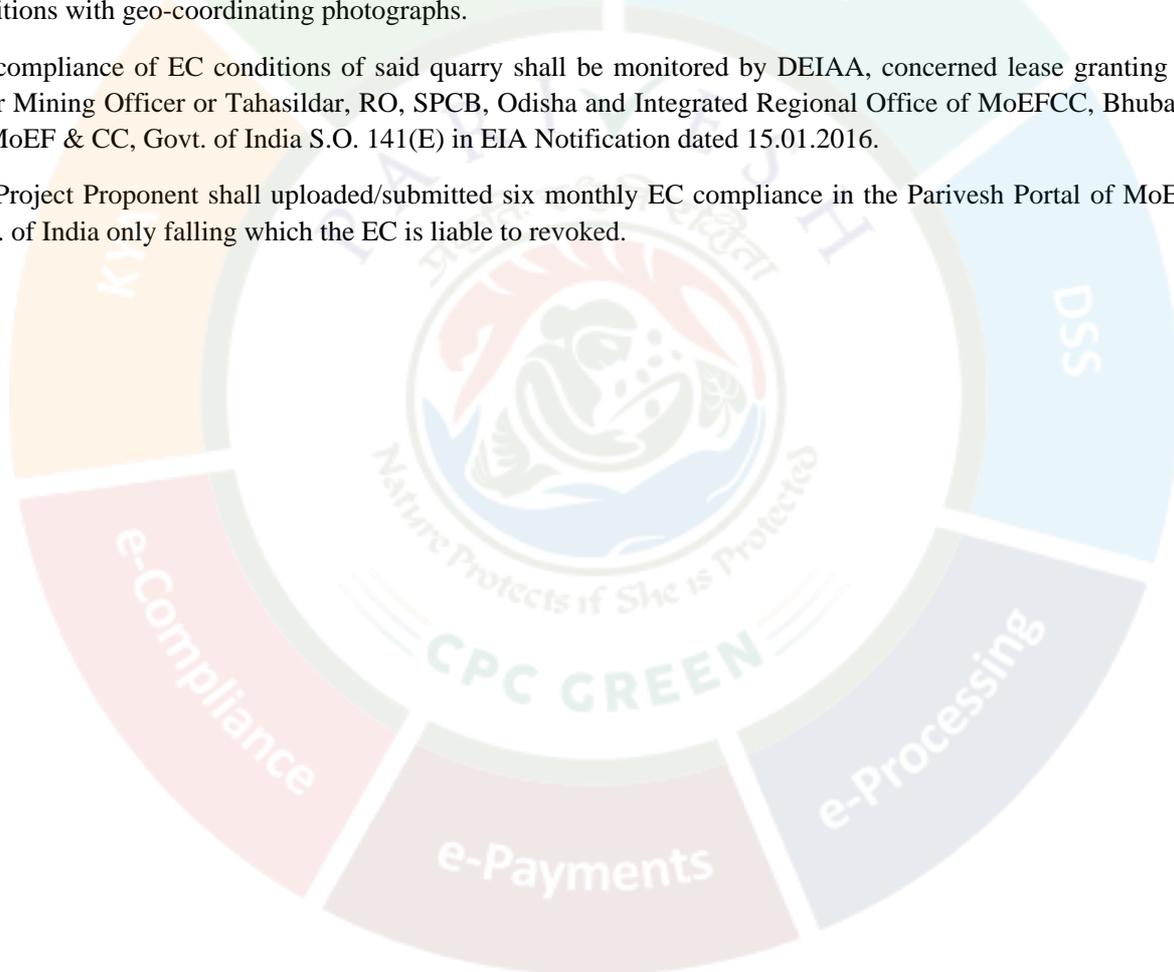
S. No	EC Conditions
2.1	<p>Specific Stipulation:</p> <ol style="list-style-type: none"> 1. Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee. 2. In view of likely revision of DSR the mention of this deposit with coordinates is to be ensured. 3. The boundary area of the deposit as per the updated DSR defined by geo coordinates based on DGPS survey be superimposed on the cadastral map. 4. Plantation programme to be completed within first two years and to be maintained in remaining years. 5. The Project proponent shall follow Sustainable Sand Mining Guidelines, 2020. 6. The proponent shall provide Bio- toilet for the workers. 7. Project Proponent shall not disturb the water course during mining and shall restrict mining to actual depth of sand
2.2	<p>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.</p>
2.3	<p>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.</p>
2.4	<p>Environmental Management Plan: 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 allocation of Rs. 1.20 Lakhs (Capital Cost) and Rs. 2.35 Lakhs/annum (Recurring cost) and Rs.1.0 Lakh/annum for CER cost. 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 lease holders of his jurisdiction.</p>
2.5	<p>Common Forum for EMP:- All the individual quarry lessee holders coming under the Tahasil may create a common forum in coordination with the Tahasildar/ Mining Officer and contribute</p>

S. No	EC Conditions
	<p>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>
2.6	<p>No Working Zone: - The lessee shall ensure that no sand mining is carried out in the areas as specified below: -</p> <ul style="list-style-type: none"> • 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 from upstream and 500 m from 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.
2.7	<p>Transport Safeguards:</p> <ul style="list-style-type: none"> • 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

S. No	EC Conditions
	<p>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.</p>
2.8	<p>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.</p> <ul style="list-style-type: none"> • 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.
2.9	<p>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.</p>
2.10	<p>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.</p>
2.11	<p>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.</p>
2.12	<p>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.</p>
2.13	<p>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.</p>

Additional EC Conditions

1. The Maximum depth of mining 0.5 meter and maximum quantity of extraction shall be limited to **15000 cum** in the 1st year and **15000 cum** for the 2nd year as per ARRS report.
2. The EC is valid for the lease period subject to the quantity prescribed in the modified DSR or revised Mining Plan whichever is less.
3. The PP shall carryout the ARRS study in subsequent year through an NABET or ORSAC empanelled agency and submit the ARSS study report to SEIAA, Odisha by **31st March, 2026**.
4. The PP shall implement the EMP with a budgetary allocation of **Rs. 1.20 Lakhs (Capital Cost) and Rs. 2.35 Lakhs/annum (Recurring cost)** and **Rs.1.0 Lakh/annum for CER** cost as proposed in the EMP report during EC application.
5. The PP shall plant **240 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.

- (ii) This is a proposal for mining of sand from Haldi Sand Quarry - 3 is a sand mining project over an area of 4.997 Ha or 12.35 Acre bearing Khata No.- 175 and Plot No.- 1 located at village Haldi, Tahasil and District - Nuapada in favor of Lessee Sri Nardeep Singh Khanduja.
- (iii) The mining area is a part of Survey of India Toposheet No. F44W5 and is bounded between the Latitude- 20° 50' 31.66" N to 20° 50' 42.33" N and Longitude – 82° 27' 54.67" E to 82° 28' 09.59" E bearing Khata no. 175, Plot No. 01, Kissam-Nadi
- (iv) The mining lease is an identified sairat source in the DSR. The Haldi Sand Quarry - 3 sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Nuapada to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (v) Documents submitted: -Form-1, EMP, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, Nuapada, topo map etc.
- (vi) Whether submitted KML file of the lease area-Yes
- (vii) Whether submitted scrutiny fee-Yes, of Rs. 2000/- vide e Challan Reference Id no. 37FA5A244F dt. 23.04.2024
- (viii) Distance from nearest sanctuary/ESZ- Sunabeda WLS-42.14 Km
- (ix) Whether the lease area coming in DLC report-No, NA
- (x) Whether the lease area reflecting in DSR-Yes
- (xi) Method of mining-Manual
- (xii) River-Jonk, Depth of sand deposition-0.5 meter
- (xiii) Distance from nearest road bridge-1.76 km, Village road-0.30 km,
- (xiv) Whether it is part of cluster – Yes, total cluster area of 37.06 acres/ 14.997 Ha. is located in village - Haldi, Tahasil - Nuapada in District – Nuapada of Tahasildar, Nuapada (Haldi Sand Quarries cluster consists of 3 (three) nos. of individual sand mining leases i.e Haldi Sand Quarry-01 (5.0 Ha./ 12.355 Acres), Haldi Sand Quarry-02 (5.0 Ha./ 12.355 Acres), Haldi Sand Quarry-03 (4.997 Ha./ 12.35 Acres).
- (xv) Whether EC obtained earlier-No
- (xvi) Date of approval of Modified mining plan- by the Joint Director of Geology, Zonal Survey, Balangir vide letter no. 1785 dt. 31.08.2020.
- (xvii) Production capacity per annum-15000 cum/annum (max.), total production in 5 years period-75000 cum, Geological reserve-24241 cum and Mineable reserve-20234 cum.
- (xviii) The DSR has not 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 and 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).
- (xix) Haldi Sand Quarry 1, 2 & 3 is Cluster Mining Project. The 3 quarries i.e., Haldi -1 is 72 m away from Haldi -2 & Haldi-3 is 90 m away from Haldi-1 & Haldi-3 is 162 m away from Haldi-2 respectively.
- (xx) **TOR details:** Terms Of Reference (TOR) was granted by SEIAA vide File No.- 403213/339-MINB1/04-2023 Dated 27.06.2023.
- (xxi) **Public hearing details:** Public hearing was conducted on Date- 16.11.2023, place- Dumerpani Gram Panchayat Office of Nuapada district. Issues raised during public hearing are to develop the connectivity/approach road by RD Department, widening of road which will be used for the transportation of the sand during the operation of the Sand Bed, school

children should not be affected by the heavy vehicle, engage local labourers etc. An amount of Rs. 3,50,000 will be incurred for the action plan of public hearing.

- (xxii) **Total Reserves and proposed production:** As estimated, the total geological reserve has been estimated as 69,316 m³ and mineable reserve is 59,660 m³ with proposed production of Haldi-1 (10,000Cum/Year, in the last year 4,168Cum/Year), Haldi-2 (10,000 Cum/Year) & Haldi-3 (15,000Cum/Year) for 5 Years.
- (xxiii) **Replenishment study details:** Replenishment study has been done in Drone method. Pre-monsoon Survey was carried out on 12.05.2023 and Post- monsoon Survey was carried out on 16.11.2023. Considering all the mining constrains of a total safe workable area the volume of sand computed as below. The volume of sand available with an average of mRL 313.91 for Haldi Sand Quarry-1, 313.27 for Haldi Sand Quarry-2 and 310.91 Haldi Sand Quarry-3 after the Pre- Monsoon Survey. The volume of sand available with an average mRL 314.21 for Haldi Sand Quarry-1, 313.65 for Haldi Sand Quarry-2 and 311.30 Haldi Sand Quarry-3 with a height of 0.30, 0.38 & 0.39 m for the quarries after the post-monsoon survey.
- (xxiv) Budget provision for cluster Rs.7,10,000/- and recurring cost Rs.7,05,000/- per annum, & CER Cost of Rs. 3.50 Lakh.
- (xxv) Budget provision for EMP of Rs. 1.20 Lakh (Capital cost) and Rs. 2.35 Lakh/annum (Recurring cost)
- (xxvi) 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 01.02.2024 and the Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Parivesh Environmental Engineering Services, Lucknow** on behalf of the proponent, the SEAC approved the EIA/EMP report in cluster approach and recommended the following:
- a) The SEIAA, Odisha may consider to grant Environmental Clearance to individual lease for Haldi Sand Quarries submitted under cluster approach without referring to SEAC with stipulated conditions as per **Annexure – A** after receipt of individual applications from the lessee in cluster along with following documents.
- Filled in form-I of individual lease
 - Prefeasibility report of individual lease
 - EMP of individual lease.
 - Approved Mining Plan of individual lease.
 - Previous production details of individual lease duly certified by Tahasildar.
 - Replenishment Study Report of individual lease.
- b) Following specific conditions may be stipulated in individual Environmental Clearance.
- 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**.
 - In absence of proper Replenishment Study Report, the SEAC recommended sand for 1st year to a capacity of 60% of annual production capacity as approved in the mining plan.
 - 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.
 - 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.

3. The cluster proposal was placed in 159th SEIAA, Odisha meeting held on 07.03.2024 and after detailed deliberation on the matter, the authority accepted the recommendation of SEAC and approved the cluster EIA&EMP report with a capital cost of Rs.7,10,000/- and recurring cost Rs.7,05,000/- per annum, & CER Cost of Rs. 3.50 Lakh. The individual EC application in cluster will be consider after submission of documents as recommended by SEAC.

