



Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

PARIVESH 1.0, AGENDA No.157.01	
Proposal No.	SIA/OR/MIN/299684/2023
Date of application	19.01.2024
State file no.	SEIAA-679/09-2020
Project Type	Transfer of EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for transfer of EC of Kotmara-II Stone Quarry over an area of 1.50 Acres or 0.607 Hectares in village Kotmara under Titlagarh tahasil of Balangir district.
Name of the company/Organization	Sri Manapati Mugri
Location of Project	Village Pipirda under Puintala Tahasil in Balangir District.

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.

- (i) This is a proposal Transfer of EC of Kotmara-II Stone Quarry over an area of 1.50 Acres or 0.607 Hectares in village Kotmara under Titlagarh tahasil of Balangir district.
- (ii) Documents submitted: Application in Form-7, earlier EC copy, forwarding letter, Status of quarry and scrutiny of Rs. 1000/- vide e-Challan Ref. No. 337AD82D17 dated 04.11.2022
- (iii) The EC of Kotmara-II Stone Quarry over an area of 1.50 Acres or 0.607 Hectares in village Kotmara under Titlagarh tahasil of Balangir district was in favour of Tahasildar, Puintala vide SEIAA letter no./Identification No. 1425/SEIAA dt. 24.05.2021.
- (iv) Present status of quarry- Non-working
- (v) Whether submitted KML file-Yes
- (vi) The project proponent applied proposal for transfer of EC from the name Tahasildar, Puintala to Sri Smarak Ranjan Mishra, (highest bidder/lessee) with attaching Tahasildar forwarding letter vide letter no. 3074 dated 31.10.2022.
- (vii) The Mining Officer, Balangir has clarified vide letter no. 258 dt. 12.02.2024 that the quarry is not in operation after obtaining EC from SEIAA. The mining will be operate by Manual method and before commencement of mining the lessee will abide by strict safety measure including fenching by barbed wire within the quarry area and road sites for safety.
- (viii) Any deficiencies/omission have been noticed in the above documents- Nil

Whether SEAC recommended the proposal – N/A

Decision of Authority: Approved

After detailed deliberation, the Authority allowed the transfer of EC in favour of successful bidder/lessee for Kotmara-II Stone Quarry. The new lessee shall comply EC conditions issued earlier vide letter no.1425/SEIAA dt. 24.05.2021 with the following additional conditions within 6(six) months:

- a) The mining shall be operated by Manual method and before commencement of mining the lessee will abide by strict safety measure including fenching by barbed wire within the quarry area and road sites for safety.
- b) 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.

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024




- c) 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 shall be submitted to SEIAA, Odisha through email at info.seiaaodisha@gmail.com.
- d) 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.
- e) Tree Plantation:-Compensatory Tree Planting (CTP) shall be carried out with minimum @100 trees per Ha. of lease area as per the approved cost norm for avenue plantations of the State Forest Department. The Project Proponent (lease holder) shall deposit Rs.50,000/- with the respective District Environment Society for raising 100 plants of native species within 2 years in a suitable location adjoining to quarry.
- f) The PP has to expend the EMP cost as submitted in their EMP report during EC application.
- g) State EMF Fund: - An amount equal to five percent (5%) of the royalty payable shall be collected from the lessee by the Tahasildar 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.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



PARIVESH 1.0, AGENDA No.157.02	
Proposal No.	SIA/OR/MIN/ 307609/2024
Date of application	03.01.2024
File no.	SEIAA-1236/01-2021
Project Type	Proposal for Amendment of EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for Amendment of EC of Bomika sand Quarry over an area of 9.942 acres or 4.023 ha at village-Bomika, Tahasil-Paralakhemundi, Dist-Gajapati
Name of the company/Organization	Smt. Anita Mahakudo
Location of Project	village-Bomika, Tahasil-Paralakhemundi, Dist-Gajapati

2. Proposal in brief:

- (i) 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 amendment of EC of Bomika sand Quarry over an area of 9.942 acres or 4.023 ha at village-Bomika, Tahasil-Paralakhemundi, Dist-Gajapati.
- (iii) The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. EC Identification No. – 1585/SEIAA dt. 01.07.2021 for Bomika sand Quarry over an area of 9.942 acres or 4.023 ha at village-Bomika, Tahasil-Paralakhemundi, Dist-Gajapati.
- (iv) 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 18596 cum with depth of sand deposition was 1.0 meter and proposed for annual extraction-5400 cum.
- (v) The SEIAA allowed 5400 cum of sand for 1st year production with depth of mining 1.0 meter..
- (vi) 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 20th August 2022, if satisfactory replenishment study report is not submitted."
- (vii) The PP has mentioned the quantity of sand extracted 5400 cum in the year 2021-22 and 5400 cum in the year 2022-23 and 1350 cum upto Nov. 2023
- (viii) The replenishment study was done by the Geocon Surveys Pvt. Ltd., the ORSAC Empanelment Agency with mentioned that the pre-monsoon standard elevation 74.11 and post-monsoon standard elevation 74.51 and quantity of sand replenished is 7438 cum and extractable quantity is 12838.3038 cum (60% of 21397.173) and proposed production is **743/8 cum/annum.**
- (ix) 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 29th, & 30th January 2024 and The SEAC observed & recommended the following:

- a) EC was granted provisionally in favour of PP subject to revoke after 20.08.2022 in case of non-submission of annual replenishment study report within one year. But, Replenishment study taken up during 2023.
- b) Status of mining after 20.08.2022 needs to be reported by Tahasildar with documentary evidence of permission from appropriate authority.
- c) The SEIAA may seek compliance to above before grant of Modification of EC.

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024



d) However, replenishment study report was found satisfactory and PP has applied quantity for **5400 cum** (against replenished sand quantity of 7438.4 cum) from common safe workable area may be considered for grant of EC.

Decision of Authority: Approved

The Authority observed that the Annual extraction quantity is 5400 cum as per approved mining plan and the quantity of sand replenished as per ARRS report works out to 7438 cum. The PP proposed to excavate the replenish quantity.

After detailed deliberation in the matter, the Authority decided to allow amendment of EC with the following specific stipulation:

- Maximum quantity of extraction of sand shall be limited to **5400 cum/annum**, as per the approved mining plan, for the rest of the lease period i.e. for the 2nd year, 3rd year, 4th year and 5th year. Further, enhancement of production quantity of sand is permissible after modification of mining plan.
- The PP is required to carry out the Annual rate of replenishment study (ARRS) through ORSAC empanel agency in subsequent year and submit the report to SEIAA, Odisha.
- The EC is valid until the validity of DSR or validity of lease period whichever is earlier.
- The PP shall implement the EMP cost is mentioned in the EMP report and submitted it during EC application.

APPROVED BY

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024



PARIVESH 1.0, AGENDA No.157.03

Proposal No.	SIA/OR/MIN/446653/2022
Date of application	17.01.2024
File no.	446653/1005-MINB2/01-2024
Project Type	New EC proposal
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Kumbhari Sand Bed over an area of 6.00 Acres or 2.428 Hectares in village Kumbhari under Golamunda tahasil of Kalahandi district.
Name of the company/Organization	Sri Debasis Patra
Location of Project	village Kumbhari under Golamunda tahasil of Kalahandi district
ToR Date	N/A
Name of the Consultant	N/A

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 mining of sand from Kumbhari Sand Bed over an area of 6.00 Acres or 2.428 Hectares in village Kumbhari under Golamunda tahasil of Kalahandi district.
- ii) The mining area is a part of Survey of India Toposheet No. F44R4 and is bounded between the Latitude - 21° 00' 35.49"N to 21° 00' 48.46"N and Longitude – 83° 06' 21.45" E to 83° 06' 29.27" E
- iii) The mining lease is an identified sairat source in the DSR. The Kumbhari Sand Bed sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Golamunda 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-No, as Tahasildar is the applicant
- vii) Distance from nearest sanctuary/ESZ- Karlapat WLS-80.0 Km
- viii) Whether the lease area coming in DLC report-N/A.
- ix) Whether the lease area reflecting in DSR-Yes
- x) Method of mining-Manual
- xi) River- Ong, Depth of sand deposition-1.0 meter
- xii) Distance from nearest road bridge-0.43 km, village road -0.35 km
- xiii) Whether it is part of cluster –No
- xiv) Whether EC obtained earlier-No
- xv) Date of approval of mining plan- the Joint Director Geology & A.O. Zonal Survey, Kalahandi on 14.12.2022
- xvi) Production capacity per annum-5000 cum/annum (max.), total production in 5 years period-25000 cum, Geological reserve-32784 cum and Mineable reserve-22145 cum
- 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) The EMP budget provision of Rs. 1.20 Lakh/annum
- xix) Any deficiencies/omission have been noticed in the above documents- Nil

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

Whether SEAC recommended the proposal – The proposal was placed in SEAC meeting held on 29th & 30th January 2024 and the SEAC recommended to grant EC valid from the date of EC accorded upto the lease period with specific conditions stipulated for sand mine with following additional conditions.

- a) 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.
- b) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured.
- c) 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.
- d) Plantation programme to be completed within first two years and to be maintained in remaining years.
- e) The Project proponent shall follow Sustainable Sand Mining Guidelines, 2020.
- f) The proponent shall provide Bio- toilet for the workers.
- g) Project Proponent shall not disturb the water course during mining

Decision Of Authority: Approved


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

- Maximum depth of mining 1.0 meter and maximum quantity of extraction shall be limited to **5000 cum** in 1st year from the date of issue of EC and **1250 cum** in 2nd year upto 31st March, 2025.
- The validity of EC is for 1st year and 2nd year or validity of DSR or validity of lease period whichever is earlier.
- The PP shall carryout the ARRS study by March'2025 through a ORSAC empanelled agency.
- 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.1,50,000/-, with the respective District Environment Society for raising 300 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMP with a budgetary allocation of Rs1.20 Lakh/annum

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

PARIVESH 1.0, AGENDA No.157.04

Proposal No.	SIA/OR/MIN/422043/2023
Date of application	13.04.2023
File no.	422043/810-MINB1/04-2023
Project Type	New EC proposal
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Badaoolma Sand Mining Cluster consisting of 3 Sand Quarries on river Angi over an area of 9.383 ha. or 23.20 acres in Badaoolma mouza, Tahasil Dabugaon, District Nabarangapur submitted under cluster approach with consisting of 3 Sand Quarries.
Name of the company/Organization	Tahasildar, Dabugaon
Location of Project	Badaoolma mouza, Tahasil Dabugaon, District Nabarangapur
ToR Date	26-02-2021
Name of the Consultant	M/s P & M Solution, Noida

- 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.
- 1. This proposal is for Environmental Clearance of Badaoolma Sand Mining Cluster consisting of 3 Sand Quarries on river Angi over an area of 9.383 ha. or 23.20 acres in Badaoolma mouza, Tahasil Dabugaon, District Nabarangapur of Tahasildar Dabugaon (submitted under cluster approach with consisting of 3 Sand Quarries.**
- 2. Category:** As per EIA notification 2016 and subsequent amendments, the project is coming under category 'B' (B1) under Schedule of activity 1(a)-Mining of Minerals.
- 3. Project details:** The cluster include three mining lease area i.e., Badaoolma I sand bed over an area of 4.01 Ha or 9.91 Acres in favour of successful bidder Niranjana Swain(LOI letter no.885/2020, dated 26.06.2020) Badaoolma II Sand bed over an area of 2.553Ha or 6.31 Acres in the favour of successful bidder Soumya Ranjan Mishra(LOI letter no 1402/2020,dated 21.09.2020).and Badaoolma III sand bed over an area of 2.82 Ha, 6.98 Acres in favour of Sri Prem Chand Gupta(LOI letter no 1397/2020,dated 21.09,2020). All the three mines located within 500m radius from each other forming a cluster of sand bed. The Quarry lease of Badaoolma-I, II, III has been granted by Tahasildar Dabugaon to the successful bidders for excavation of minor mineral (River Sand) for five years.
- 4. Mine plan for Badaoolma Sand Quarry – I, II, III has been approved by Joint director, Geology, Koraput vide letter no 1102 dated 08.06.2020; letter no 2228 dated 21.07.2020; letter no 2190 dated 20.07.20 respectively.**
- 5. These are new mines in cluster as per DSR, Nabarangpur.**
- 6. TOR details:** Terms of Reference (TORs) has been granted by SEIAA- Odisha vide the Reference No: 649/SEIAA dated 26-02-2021.
- 7. Public hearing details:** Public hearing was successfully executed on date 20.07.2022 at Gram Panchayat office premises of Badaoolama village under Dabugaon Tahasil in Nabarangpur District per the guidelines given in EIA Notification 14th September' 2006 and its subsequent amendment. Issues raised during public hearing of the Sand mining from the river bed, widening of roads as plying of vehicles will be more, road

maintenance, plantation, dust suppression measure, protection of environment, peripheral development. CER budget proposed is Rs.120000.

Table-CER Budget

Sl. No.	Activity	Capital Cost (in Rs.)/annum
1.	Financial aid for medical camp in Badaoolma village.	60,000
2.	Skill development program camps like computer learning, sewing etc. in Badaoolma village.	60,000
TOTAL		1,20,000

8. **Location and connectivity:** The proposed River Bed Sand Mining will be carried out on Angi River located at village: Badaoolma , under Tahasil: Dabugaon, Dist Nabarangpur, Odisha. The Lease Cluster over an area of 9.383 Ha bearing Khata No.326. Plot No: 778,855,760,449,518,855,803,916 Kisam- Nadi. The project site is located in survey of India toposheet no (73G/4, 65I/7) (Badaoolma I falls between latitude of Latitude: 31°17'02.23"N to 31°27'54.68"N Longitude: 82°18'55.23"E to 82°19'10.23"E.and Badaoolma II falls between Latitude: 31°17'02.23"N to 31°27'54.68"N Longitude: 82°18'55.23"E to 82°19'10.23"E. Badaoolma III falls between latitude of 19°23'32.92"N to 19°23'45.33"N and longitudes of 82°18'47.38"E to 82°18'57.05"E. Nearest road is village road which is located the distance of 100 meter from cluster area. The site is well connected to NH-130 CD & SH-39 at the distance of 11.00 Km in NE direction. Nearest Railway Station is Ambagaon Railway Station which is located on distance of 39.00 Kms in SW direction from the lease area.

9. **Topography and drainage:** The topography of the area is a flat terrain which lies at an elevation of more than 2m from the level of flow of water. The gradient of flow of water in the river is gentle. So, in the lease area, the highest elevation is 115mRL & lowest elevation is 113mRL in sand. The lease area here is a river sand quarry. Drainage system in the region is dendritic. General flow direction of river is from North to South. Work will continue only during summer months when there is no water in the leasehold. Mining will be restricted to a depth above the ground water level.

10. **Baseline study:**

- a) **Ambient air quality:** Ambient Air Quality Monitoring reveals that the minimum & maximum concentrations of PM10 for all the 7 AQ monitoring stations were found to be 58.7 µg/m³ at AQ3 and 88.20 µg/m³ at AQ1, respectively. Ambient Air Quality Monitoring reveals that the minimum & maximum concentrations of PM2.5 for all the 7 AQ monitoring stations were found to be 23.21 µg/m³ at AQ3 and 49.95 µg/m³ at AQ1, respectively. As far as the gaseous pollutants SO₂ and NO_x are concerned, the prescribed CPCB limit of 80µg/m³ for residential and rural areas has never surpassed at any station. The minimum & maximum concentrations of SO₂ were found to be 5.69 µg/m³ at AQ3 & 15.94 µg/m³ at AQ1, respectively. The minimum & maximum concentrations of NO_x were found to be 9.83 µg/m³ at AQ3 & 26.48 µg/m³ at AQ1, respectively.
- b) **Groundwater analysis:** pH varies from 7.19 to 7.73 during study period. Total hardness varies from 280.34 mg/l to 329.4mg/l . Total dissolved solids vary from 846 mg/l to 1238 mg/l.
- c) **Surface water analysis:** The analysis results indicate that the pH ranges between 7.32 and 7.72. Dissolved Oxygen (DO) was observed in the range of 6.8 to 7.4 mg/l against the minimum requirement of 4 mg/l. BOD values were observed to be in the range of 3.62 – 4.3 mg/l. The chlorides and Sulphates were found to be in the range. Bacteriological examination of surface water samples revealed the presence of total coliform in range of 1.8×10³ MPN/100 ml to 2.0×10³ MPN/100 ml.

- d) **Soil analysis:** Samples collected from identified locations indicate the soil is sandy type and the pH value ranging from 7.25 to 8.02, which shows that the soil is alkaline in nature. Potassium is found to be from 234.20mg/kg to 253.56mg/kg. The water holding capacity is found in between 26.94 % to 32.09%.
- e) **Noise level study:** Noise monitoring reveals that the maximum & minimum noise levels at day time were recorded as 59.4 Leq. dB (A) at NQ3 & 50.6 dB (A) at NQ5, respectively. The maximum & minimum noise levels at night time were found to be 48.2 dB (A) at NQ3 & 38.8 dB (A) at NQ5. There are several other sources in the 10 km radius of study area, which contributes to the local noise level of the area. Traffic activities as well as activities in nearby villages and agricultural fields add to the ambient noise level of the area.

11. **Replenishment study:** For the said project replenishment study has been done by UAV/Drone survey (volumetric survey) method. The first survey has been carried out in the month of May/June before closing of mines for monsoon season. The second survey is carried out in the Month of Nov/Dec after the monsoon.
12. The volume of sand available in Badaoolma-I sand quarry after post monsoon study is around 22168.25 m³, which can be treated as safe extractable within the framework of the study after arrival of river level. As it is a new mine no excavation has done in this year. So, total mineable reserve available for mining is 30360 + 22168.25 = 52,528.25 m³ whereas, approved production capacity for the year is 6072 m³. Reported replenished volume of sand as per the study is 16057 cum. 0.95 m is the reported difference in level of sand during pre and post monsoon periods multiplied by the water free minable area of 16903 m².
13. The volume of sand available in Badaoolma-II sand quarry after post monsoon study is around 8088.6 m³, which can be treated as safe extractable within the framework of the study after arrival of river level. As it is a new mine no excavation has done in this year. So, total mineable reserve available for mining is 33430 + 8088.6 = 41,518.6 m³ whereas, approved production capacity for the year is 6670 m³. Reported replenished volume of sand as per the study is 5148 cum. 0.65 m is the reported difference in level of sand during pre and post monsoon periods multiplied by the water free minable area of 7921 m².
14. The volume of sand available in Badaoolma-III sand quarry after post monsoon study is around 12977.94 m³, which can be treated as safe extractable within the framework of the study after arrival of river level. As it is a new mine no excavation has done in this year. So, total mineable reserve available for mining is 16000+ 12977.94 = 28977.94 m³ whereas, approved production capacity for the year is 3200 m³. Reported replenished volume of sand as per the study is 16057 cum. 0.73 m is the reported difference in level of sand during pre and post monsoon periods multiplied by the water free minable area of 17778 m².
15. **Total production and reserves:** It has been proposed to collect approximately 12040 m³ Year /annum of river bed material annually. Yearly production for Badaoolma Sand Quarry I, Badaoolma Sand Quarry II and Badaoolma Sand Quarry III is 6720 cum/annum(33600 cum for 5 years), 2120cum/annum (10,600cum for 5 years) and 3200cum/annum (16000 cum for 5 years) respectively. As estimated, Geological reserve for Badaoolma Sand Quarry I, Badaoolma Sand Quarry II and Badaoolma Sand Quarry III is 72252cum, 22982cum and 25423 cum respectively. Mineable Reserves for Badaoolma Sand Quarry I, Badaoolma Sand Quarry II and Badaoolma Sand Quarry III is 33602cum, 11200cum and 16000 cum respectively.

S. No.	Year	Badaoolma Sand Quarry I	Badaoolma Sand Quarry II	Badaoolma Sand Quarry III	Total Production in m ³
1	1st	6720	2120	3200	12040
2	2nd	6720	2120	3200	12040
3	3rd	6720	2120	3200	12040

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

4	4th	6720	2120	3200	12040
5	5th	6720	2120	3200	12040
Total		33600	10600	16000	60200

16. **Mining method:** The sand will be excavated by open cast manual method. Since the depth of sand deposit is 1.0m, excavator, handpicks, spade, hand shovel will be used by laborers for extracting & loading of sand. Keeping in view of the market demand and resource availability in respect of reserves, proposed sand quarry is scheduled to produce @ 12040 cum/year (maximum) for the plan period.

17. **Water requirement:** For the Badaoolma sand cluster 8.0 KLD of water will be required. For drinking & domestic purpose, water requirement will be 0.20 KLD, water requirement for Green belt development and dust suppression will be 7.86 KLD as per following heads given in the Table for each quarry.

Activity	Calculation	KLD
Drinking	@ 10 lpcd per labor $10*20/1000= 0.20$ KLD	0.20 KLD
Dust Suppression	Total approach road to be water sprinkled = 960 m $960\text{ m}*6\text{m}*0.5 *2\text{ times}/1000= 5.76$ KLD	5.76 KLD
Plantation	950 plant (during plan period) @ 2 L/per plant= $950*2\text{ lts}= 1900/1000= 1.90$ KLD	1.90 KLD
Total		7.86 KLD

18. **Traffic details:** The V/C ratio for Cluster will change from 0.075 to 0.080 with LOS remain "A" i.e. "Excellent". So the additional load on the carrying capacity will be affected to a minimum level.

19. **Greenbelt:** About 950 number of trees will be planted along approach road & in village during the first year (Approach Road – 580 nos – along both sides of approach road at spacing of 2 m. Village area - 370 nos. In village area like school premises, Anganwadi, Panchayat Bhawan). Plantation will be done with suitable local species like Teak, Mango, Neem, Jamun, Jhaun etc after consultation with the local authorities. (Badaoolma Sand Quarry – I-400 trees; Badaoolma Sand Quarry – II- 260 trees and Badaoolma Sand Quarry – III- 290 trees).

Year	No. of plants along both side of approach road	No. of plants in Buffer Zone consulting local authorities	Location	Species
1 st	580	370	Approach road – 580 nos – along both sides of approach road at spacing of 2 m. Village area - 370 nos. In village area like school premises, Anganwadi, Panchayat Bhawan	Guava, mango, Jamun, jhaun, neem etc
2 nd	Maintenance	Maintenance		
3 rd				
4 th				
5 th				
Total	580	370		
Total	950			

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

20. **Manpower requirement:** Due to the proposed sand mining, there will be generation of employment for 20 persons in Badaoolma Sand Cluster. Out of which 10 personnel will be engaged with Badaoolma I; 4 persons will be engaged in Badaoolma II and 6 persons in Badaoolma III sand quarry.

21. **Project cost:** As per EIA submitted - Budget for Corporate Environmental Responsibility (CER) for Badaoolma Sand Quarry I, II & III (For Cluster) is Rs. 1,20,000 (CER Cost for Badaoolma Sand Quarry - I, Badaoolma Sand Quarry - II, Badaoolma Sand Quarry - III is Rs 60,000, Rs 30,000 and Rs 30,000 respectively). Budget for occupational health is Rs.1,30,000. Budget allotted for the Environmental Management Plan of Badaoolma Sand Quarry I, II & III (For Cluster) incurs capital cost of Rs.4,30,000 and recurring cost of Rs 9,60,000. (For Badaoolma Sand Quarry I, capital cost is Rs. 1,75,000 and recurring cost is Rs. 3,20,000; Badaoolma Sand Quarry - II, capital cost is Rs. 1,02,000 and recurring cost is Rs. 3,20,000 and Badaoolma Sand Quarry - III, capital cost is Rs. 1,53,000 and recurring cost is Rs. 3,20,000).

Sl. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control Dust Suppression /Water Sprinkling	--	3,00,000
2.	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	50,000 40,000 10,000 10,000
3.	Green belt development	1,90,000	1,50,000
4.	Maintenance of haul road	2,40,000	1,80,000
Total		4,30,000	7,40,000

22. **Environment Consultant:** The Environment consultant M/s P and M Solution, Noida along with the proponent made a presentation on the proposal before the Committee.

1. The SEAC in its meeting dated 12-06-2023 decided to take the decision on the proposal 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
o.	Total length/Span of the bridge leaving the safety zone area along with layout showing distance from safety zone and mining area.	Total length of the bridge is 80 meter and a map showing the distance from safety zone and mining area is attached as Annexure - I.	-
p.	Clarification for mismatch of quantity given in Mining Plan and replenishment study.	Due to some clerical error the mismatch of quantity in the proposed production given in mining plan and in replenishment report was occur but the replenishment report is revised and submitted herewith as Annexure - II.	-
q.	Permission for use of Revenue road from the Concerned Tahasildar.	A copy of NOC from Tahasildar is attached herewith as Annexure - III.	-

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024



r.	Give justification for extraction of less quantity of sand while sand availability in the proposed lease is much more than the proposed extraction.	Detail Justification is given in Annexure - IV.	-
s.	Revised replenishment study for third quarry after leaving the safety zone.	Revised replenishment study report is attached as Annexure – II.	-
t.	EMP budget given in EIA for cluster and during presentation has different Recurring cost. Correct EMP budget for cluster to be submitted.	The EMP budget has been corrected and now in both the EIA as well as in the presentation , the Recurring costs are compatible with each other A copy of EMP budget is attached herewith as Annexure - V.	-
u.	Revised Mining Plan for Badaoolma Sand Quarry – III after leaving non mining safety zone from Bridge, which is at 100meters as per the Sand Mining guidelines of MoEF&CC, 2020.	The revised mining plan is prepared with leaving 250 mtr from upstream and 500 mtr from downstream is proposed as per Sand Mining guidelines of MoEF& CC, 2020.	-

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s P & M Solution, Noida** on behalf of the proponent.

2. **Whether SEAC recommended the proposal** – The proposal was placed in SEAC meeting held on 29.12.2023 and 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 Badaoolma Sand Mining Cluster without referring to SEAC with stipulated conditions as per **Annexure – B** 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) Previous production details of individual lease duly certified by Tahasildar.
 - vi) Replenishment Study Report of individual lease.
 - b) Following specific conditions may be stipulated in individual Environmental Clearance.
 - 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 – C.**
 - 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.

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.

Decision of Authority: Deferred for ADS

The Authority observed that the proposal involves a proposed production capacity of 12040 cum/annum for 5 years. Whereas, the EIA study and EMP study report have been prepared in a sketchy manner without addressing the environmental concerns. The PP is required to submit the revised EMP by NABET Consultant indicating item-wise and year-wise appropriate budget for each of the issues raised in EIA report and CER.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



PARIVESH 1.0, AGENDA No.157.05

Proposal No.	SIA/OR/MIN/409627/2022
Date of application	09.03.2023
File no.	409627/323-MINB1/03-2023
Project Type	New EC proposal
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Kandarsingi Sand Quarry over area of 12.106 ha. for production of 7,250 cum/annum at Khata No.- 567, Plot No 3222, 3119,3112,2794 & 2268, village Kandarsingi, Tahasil- Jagannathprasad, District- Ganjam
Name of the company/Organization	Sri Samir Tarai
Location of Project	village Kandarsingi, Tahasil- Jagannathprasad, District- Ganjam
ToR Date	28.09.2021
Name of the Consultant	M/s P & M Solution, Noida

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.
 1. This proposal is for Environmental Clearance of Kandarsingi Sand Quarry over area of 12.106 ha. for production of 7,250 cum/annum at Khata No.- 567, Plot No 3222, 3119,3112,2794 & 2268, village Kandarsingi, Tahasil- Jagannathprasad, District- Ganjam of Sri Samir Tarai.
 2. **Category:** As per EIA notification, 2006 and subsequent amendments, the project is coming under B1 Category under Schedule of item 1(a)-Mining of minerals.
 3. The mining plan for the ML area has been approved by the Dy. Directorate of Geology, Directorate of Geology, Bhubaneswar Odisha vide Memo no 1630/DG dated 03.02.2020.
 4. Letter of Intent has been issued by Tahasildar, Jagannathprasad to Successful Bidder Sri Samir Tarai vide letter no.3199 dated 17.09.2019.
 5. **TOR Details:** Terms of Reference (TOR) was granted by SEIAA, Odisha vide letter no 3016/SEIAA dated: 28.09.2021.
 6. **Public hearing details:** Public hearing has been conducted on 21.10.2022 at adjacent to Prathmika Vidyalaya, Kandarsingi (plot no- 1160 kata no- 338) under Jagannathprasad Tahasil in Ganjam District of Odisha under the supervision of Addl. District Magistrate, Ganjam. Issues raised during public hearing are air pollution due to transport, destruction of forest due to mining, water pollution due to mining and transportation, damage of river embankment and crop loss, movement of transportation vehicles in front of school will lead to problem of commuting by school children and women at bathing ghats are facing problems due to frequent movement of transportation vehicles. Budget allocated towards public hearing issues is mainly for Environment protection & pollution control and for it, about Rs. 4.7 lakh as capital cost & 3.8 lakhs/annum as recurring cost has been allocated in the EMP budget. CER budget allocated is Rs.80000.
 7. **Location and connectivity:** The total lease area of quarry is about an area of 12.106 Ha. / 29.915 Acre in Burha River over Khata no.-567 and Plot no.- 3222, 3119, 3112, 2794 & 2268 situated in village - Kandarsingi, Tahasil- Jagannathprasad, Dist.- Ganjam, Odisha. The lease is located in survey of India Topo Sheet No. E45A9, E45A13, F45S12, F45S16, bounded by Latitude: 19°54' 16.19" N to 19°54' 36.46" N,

Longitude: 84°43'18.57" E to 84°43'42.15" E bearing Khata no -567 and Plot No 3222,3119,3112,2794 & 2268. The highest elevation of the river sand bed is 82 mRL and the lowest elevation of the lease area is 79 mRL. The Mine Lease area is approx. 67kms of aerial distance from the district headquarters Chatrapur. The proposed ML area can be approached by SH 21 road which is in Westside from ML area. Nearest Road Bridge, river embankment, and electric transmission line pole is 0.28km (NE), 0.28km (NE), and 1.50 km (SE) respectively. The project site falls under seismic zone II which is a least active zone (MSK VIII).

8. There are no National parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed) with in 10 kms radius of Mine lease area.
9. **Drainage:** The drainage pattern in the study area is from East to West. The proposed project does not impact natural drainage pattern of the area.
10. **Baseline details:** Baseline data collection through field survey has been commenced in pre monsoon season i.e., March to May, 2021.
 - a) Ambient air quality: The major contributors of air emissions are industrial emission, vehicular movement combustion of bio-fuel and other man made sources. During the study period the concentration of PM10 varies from 34-69 µg/m³ .Concentration of PM2.5 varies from 17.1 µg/m³ to 32.4 µg/m³ .The concentration of SO₂ varies from 5.1 to 7.5 µg/m³ and NO_x concentrations vary from 7.41 to 16.2µg/m³ . From the ambient air quality monitoring carried out for three months (March-May 2021) of the study period shows that the critical pollutants like PM10, SO_x and NO_x are well within the permissible limits.
 - b) Noise quality: The mine lease area is River Bed without any human interference. So the present noise level of the area is lower comparative with the village. The noise level as measured in the core zone is 51.8dB (A) & 53.8 dB (A) respectively. The maximum & minimum noise levels at night time were found to be 36.2dB (A) & 39.1 dB (A) respectively. The noise level is below the standard as per the Noise Rule, 2000 for rural area. The lease area and all the sampling points are comes under rural area.
 - c) Ground water quality: The analysis results indicate that the pH ranges between 7.35 and 7.58. Total Dissolved Solids (TDS) varies from 278 to 410mg/l. Total Hardness varies from 162 to 236 mg/l. Fluoride varies from 0.2 to 0.4mg/l. The chlorides and Sulphates were found to be in the range. From the above water quality results it can be inferred that all the parameters analysed are under the prescribed limit specified under IS10500, 2012 for drinking water. The water is free from microscopic organism and do not contain any pollutant which would be hazardous for human, animal or crop health, So it is fit for drinking purpose
 - d) Surface water -The pH ranged from 7.18 to 7.64. Dissolved Oxygen (DO) ranged from 6.2 to 6.9 mg/l. BOD ranged from <2.0 to 4.6 mg/L. COD ranged from 10 to 28mg/l.
 - e) Soil quality- The soil analysis result shows that, the pH value ranges from 7.62 to 7.84 with organic carbon 0.52 to 0.62%. The concentration of Nitrogen, Phosphates & Potassium has been found to be in good amount in the soil samples. Project site and in the study area is sandy soil as site is located at the river bed. Results of soil sampling analysis showed best for fertility. From the soil analysis result it can be concluded that the soil of the area is highly fertile and suitable for agricultural purpose
11. **Replenishment study:** For the said project replenishment study has been done by UAV/Drone survey (volumetric survey) method. In this case, replenishment study requires three surveys. The first survey has been carried out in the month of May/June before closing of mines for monsoon season. The second survey is carried out in the Month of Nov/Dec after the monsoon to know the quantum of material deposited / replenished in the mining lease. The estimated average erosion thickness is computed within the entire lease

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

area and common safe workable area respectively. However, the volume of sand available after post monsoon is around 73083.12 m³, which can be treated as safe extractable within the framework of the study after arrival of river level as it was in pre monsoon. Further volume of sand also computed, which can be extracted as on date (Pre monsoon survey date) is 166098 m³. As it is a new mine no excavation has done in this year. So, total minable reserve available for mining is 73083.12 + 166098 = 239,181.12 m³ whereas, approved production capacity for the year is 7250 m³.

12. **Reserves and total production:** The proposed production capacity is 7,250 cum/annum (36250cum for 5 years) for a period of Concession of 5 years. As estimated, the geological reserves and mineable reserves of the proposed project is 242120 cum and 166098 cum respectively.

Sl. No.	Year	Production in m3
1.	1st	7250
2.	2nd	7250
3.	3rd	7250
4.	4th	7250
5.	5th	7250
Total		36250

13. **Mining method:** The sand will be excavated by open cast manual method. Since the depth of sand deposit is 2m, handpicks, Spade, Hand shovel and manually loaded into trucks/tractors and dispatched. The sand will be collected in dry river bed in the lease area. A 7.5m wide safety barrier will be left undisturbed around the mine lease boundary.

14. **Water requirement:** The daily fresh water requirement is 2.0 KLD. Water will be obtained from nearby village.

Activity	Calculation	Round off Figure in KLD
Drinking	@ 10 lpcd per labor 10 lt*22 labors/1000= 0.22 or 0.3 KLD	0.3
Dust Suppression	Approach road length= 550m, road width= 6m, water required= 0.5 lt twice a day 100 m*6m*0.5 *2 times/1000= 0.6 KLD	0.6
Plantation	Total sapling to be planted= 500 (during plan period), water required= 2lt/plant 500*2 lts/1000= 1.0 KLD	1.0
Total		1.9 or 2.0 KLD

15. **Greenbelt:** About 500 saplings will be planted during first & second year of plan period. Also plantation will be carried out in the available free government areas with in the study area.

Year	Total No. of plants	No of plants along both side of approach road	No. of plants in buffer zone consulting local authorities	Location	Species
1 st	250	50	200	Approach road – 100 m, 100 nos.	Guava,
2 nd	250	50	200		

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

3 rd	Maintenance	Maintenance	Maintenance	along both sides of road at spacing of 2 m. Village area – 400 nos. In village area like school premises, Aangawadi, Panchayat bhavan	mango, Jammun, jhaun, neem etc.
4 th					
5 th					
Total	500	100	400		

16. **Traffic study:** Traffic study has been carried out at village road & SH 21. From the traffic analysis it is observed that V/C ratio will change from 0.134 to 0.136 at Village road & will remain same i.e, 0.179 at SH-21 with LOS remain “A” i.e “Excellent”. So the additional load on the carrying capacity will be affected to a minimum level.
17. **Employment potential:** Total requirement of labours and other supervisory manpower will be around 22persons during the mining period. The project will also provide some 5-10 people indirect employment to the people of nearby area of mine site.
18. **Project Cost:** Total Project Cost is estimated to be 40 lakh for the proposed project. About Rs. 4.7 lakh as capital cost & Rs. 3.8 lakhs/annum as recurring cost has been allocated in the EMP budget which will be used for Environment protection & pollution control. The CER budget will be 2% of total project cost of Rs. 40 lakh i.e, Rs.0.8lakh.

S.No	Particulars	Amount per Annum (Lakh)	
		Capital Cost	Recurring Cost
i)	Dust suppression	2.0	0.5
ii)	Plantation and its protection (@ Rs. 400/sapling- including fencing)	2.0	1.0 (for Maintenance @ Rs 300/- per day)
iii)	Personal Protective Equipment (@ Rs. 2000/PPE kit)	0.5	0.5
iv)	Environmental Monitoring (Air, water, soil, noise)	--	1.2 (0.5 lakh, 0.4 lakh, 0.20 lakh, 0.10 lakh)
v)	Haul road construction/ maintenance	0.2 (@ Rs 2.0 Lakh/km)	0.6(@ Rs. 300*200 days*1 labor)
	Total	4.7	3.8

Budget for occupational health

Particulars	Recurring Cost per year (Rs.)
For routine checkup	44,000
Medical aid as per ESI Scheme	1,10,000

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024



Training	50,000
Total	2,04,000

Sl. No.	Activity	Capital Cost (in Rs.) /annum
i)	Distribution of educational kits, books & sports kits to the students of village Kandarsingi	40,000
ii)	Financial aid for medical camp for villagers in Kandarsingi village.	40,000
TOTAL		80,000

19. The Environment consultant **M/s Atmos Sustainable Solutions Pvt. Ltd.** prepared the EIA report and **P and M Solution, Noida** along with the proponent made a presentation on the proposal before the Committee.
20. The SEAC in its meeting held on dated **24-04-2023** decided to take the decision on the proposal 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
a)	Revised KML file excluding the concave areas of the river and marking the pocket areas of the lease proposed for mining of sand.	Revised KML file excluding the concave areas of the river is mailed and a map showing the pocket areas of the lease proposed for mining of sand is attached as Annexure-I .	Revised maps showing pocket areas proposed for mining with google map.
b)	Mark the mineable area, safety zone and area taken for the replenishment study in those pocket areas.	Mineable area is marked by leaving 500mtr safety distance from the nearest bridge as shown in the Mining plan and for replenishment study report the whole lease was taken. A map showing safety zone and mineable area is attached as Annexure-II .	-
c)	Annual replenishment sand in pocket areas and submit revised replenishment study report.	Attached as Annexure - III .	Estimated, Replenishment Mineable reserve of all pocket areas is = 30162.9 m ³ ≈ 30163 m ³
d)	Details of transport route for sand transportation since mining is proposed in pocket areas.	Attached as Annexure - IV .	Google layout submitted showing the transport route.

Considering the information furnished and the presentation made by the consultant, **M/s P and M Solution, Noida**, along with the project proponent.

2. **Whether SEAC recommended the proposal** – The proposal was placed in SEAC meeting held on 28.12.2023 the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per **Annexure – G** and following specific conditions:
- a) Amended EIA Notification dated 25th July, 2018, Guidelines for sustainable sand mining, 2016 and

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

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 – H**.

- b) 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.
- c) Provision of Bio-toilet shall be made at the site.
- d) 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.
- e) Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.
- f) No natural water course shall be obstructed or diverted for the purpose of sand mining.
- g) As per Sand Sustainable Guidelines, 2020, the proponent shall ensure that no mining should be allowed below water level.

Decision Of Authority: Approved


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

- Maximum depth of mining 2.0 meter and maximum quantity of extraction shall be limited to **7250 cum/annum** for rest of the lease period (i.e. for 1st year, 2nd year, 3rd year, 4th year & 5th 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.6,00,000/-, with the respective District Environment Society for raising 1200 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- The PP will implement the EMP with a budgetary allocation of Rs. 2.04 Lakh (Capital ost) & Rs. 0.80 Lakh (Recurring cost) CER cost of Rs. 0.80 Lakh/annum

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



PARIVESH 1.0, AGENDA No.157.06	
Proposal No.	SIA/OR/MIN/439601/2023
Date of application	07.08.2023
File No.	
Project Type	Proposal for EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Pankapal-1 Sand Quarry Over an area of 12.30 Acres or 4.978 hectares in village Pankapal under under Danagadi Tahasil in Jajpur District, Odisha.
Name of the company/Organization	Sri Dillip Kumar sahoo
Location of Project	village Pankapal under under Danagadi Tahasil in Jajpur District, Odisha.
ToR Date	N/A
Name of the Consultant	N/A

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 Brahmani River Sand Quarry, Pankapal-I over an area of 12.30 acres or 4.978 hectares in village Pankapal under Dangadi Tahasil in Jajpur District, Odisha.
- (ii). The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. 2889/SEIAA dated 28.09.2021 and transfer of EC vide letter no. 4167/SEIAA dated 02.03.2022 for Brahmani River Sand Quarry, Pankapal-I over an area of 12.30 acres or 4.978 hectares in village Pankapal under Dangadi Tahasil in Jajpur District, 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 43200 cum with depth of sand deposition was 1.2 meter and proposed for annual extraction-36000 cum.
- (iv). The SEIAA also granted EC for 1st year production 6000 cum with 0.6 meter depth of mining.
- (v). There is an EC conditions point no. 9.1 & 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 31st December, 2022 if satisfactory replenishment study report is not submitted."
- (vi). The quarry is not operated yet as mentioned by the Tahasildar vide his letter no. 3922 dated 30.12.2022 due to court case.
- (vii). The PP has requested for amendment of EC for extension of 1st year lease period with same production as EC issued earlier.
- (viii). The proposal was placed in the SEAC meeting held on 13.01.2023 and the SEAC recommended the proposal on the following point:
 - a) The Environmental Clearance for the proposal has been recommended for 5 years.
 - b) The lease deed could not be executed due to Court case and sairat source was not operational.
 - c) After detailed discussion, the SEAC recommended that the SEIAA, Odisha may consider for extension of date of submission of Replenishment Study Report since the quarry is not operational.
- (ix). The proposal was placed 108th SEIAA meeting held on 07.02.2023, 08.02.2023 & 09.02.2023. After detailed deliberations, the Authority decided for amendment of EC on the following



Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

points. Accordingly, the EC is allowed with a production capacity of 6000 cum/annum for 1st year period of the lease.

- (x). Again, the matter was placed in 116th SEIAA meeting held on 26.04.2023, 27.04.2023 & 28.04.2023. The Authority observed that the order dt. 14.12.2022 of Hon'ble NGT in O.A. case 03/2022/EZ has not been complied by the PP while submitting application for amendment of EC. As per letter dated 25.04.2023 of Tahasildar, Danagadi it is mentioned that they had not got any official communication regarding this but only telephonic information from AG office. But that shows in view of the order dated 14.12.2022 of Hon'ble NGT, the EC issued vide 2889/SEIAA dated 28.09.2021 as well as amendment of EC on 15.02.2023 showed null and void. Accordingly, the EC as well as amendment of EC issued dated 28.09.2021 and 15.02.2023 respectively stands revoked.

The Authority decided that the PP may submit fresh application with full compliance of the order of Hon'ble NGT dated 14.12.2022. Accordingly, the PP has submitted fresh EC application no. SIA/OR/MIN/439601/2023 dt. 07.08.2023.

- (xi) In the meantime, the PP has submitted amendment of EC application vide application no. SIA/OR/MIN/298628/2023 dt. 15.04.2023. The PP had submitted replenishment study report which reveals that the pre-monsoon study was conducted on 27.05.2022 and extractable quantity is 19674 cum. post-monsoon study was conducted on 19.01.2023 and accordingly, the replenishment quantity after post-monsoon is **9191 cum**. Proposed quantity for 1sy year lease period is **5514.6 cum**.
- (xii) Further, the proposal was placed in the SEAC meeting held on 6th, 8th, 9th and 10th the SEAC **recommended** the following: The SEAC decided to recommend quantity actually replenished as per study report (**5514.6 cum/year**) till receipt of next replenishment study report.
- (xiii) Again, the proposal was placed in 122nd meeting held on 08.06.2023, 09.06.2023 & 12.06.2023 and after detailed deliberation the Authority decided to reiterate its decision taken vide letter dated 04.05.2023. Accordingly, the application for amendment in EC is rejected.
- (xi). 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 29th & 30th January 2024 and the SEAC observed the following:

- EC was granted to the proposal by SEIAA vide letter no. 2889/SEIAA dated 28.09.2021.
- Transfer of EC granted by SEIAA vide letter no. 4167/SEIAA dated 02.03.2022.
- Amendment of EC was recommended by SEAC and granted by SEIAA for following proposal because the quarry was not operated due to court case and requested to submit the replenishment study report by DEC 2024 through ORSAC empanelled agency.
- Later, the PP applied again for Amendment of EC based on Replenishment Study Report which was approved by SEAC and was rejected by SEIAA and asked to apply again as fresh proposal.
- Now, PP has applied as fresh proposal.
- The SEAC had already recommended Environment Clearance to the proposal. Hence, the SEAC reiterated its earlier recommendation for grant of EC and decided to return this proposal to SEIAA, Odisha for consideration of EC.

Decision Of Authority: Approved

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

- Maximum depth of mining 1.0 meter and maximum quantity of extraction shall be limited to **5514 cum/annum** for rest of the lease period (i.e. for 1st year, 2nd year, 3rd year, 4th year & 5th 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

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024



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 EMP with a budgetary allocation of Rs. 1.20 Lakh/annum.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



PARIVESH 1.0, AGENDA No.157.07

Proposal No.	SIA/OR/INFRA2/446897/2023
Date of application	05.01.2024
File No.	446897/520-INFRA2/01-2024
Project Type	Proposal for ToR under Violation category
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction project
Name of the Project	Proposal for ToR for construction of S+4 storied Residential and Commercial Housing Complex of Sri Manish kumar Agrawal at mouza Routhkhamar of Rairangpur town under P.H Sub-division, Rairangpur, District Mayurbhanj, State Odisha
Name of the company/Organization	Jagdamba Iron And Steel Private Limited Manish Kumar Agrawal, Director
Location of Project	at mouza Routhkhamar of Rairangpur town under P.H Sub-division, Rairangpur, District Mayurbhanj, State Odisha
ToR Date	N/A
Name of the Consultant	M/s Visiontek Consultancy Services Pvt. Ltd. Bhubaneswar

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 Proposed S+4 Storied Residential and Commercial Housing Complex at Mouza - Routhkhamar of Rairangpur town under Rairangpur Municipality, District – Mayurbhanj and State - Odisha.
2. **Category:** The project falls under category “B” or activity 8 (a) B2- Building and construction projects, as per the EIA Notification 2006 and amendments thereafter.
3. **Location and Connectivity:** The proposed site is located at Plot No- 388/539, 397/542, 415/543, 416/544, 418, 414, 413/520, Village - Routhkhamar, Tahasil - Rairangpur, District- Mayurbhanj, State - Odisha. The Geographical co-ordinate of the project site is: Latitude - Latitude: 22°15'24.6"N & Longitude - 86°10'15.3"E. Toposheet no: 73 J/3. Kisam of land – Gharabari. The nearest distance of approach road is SH: SH- 50, 0.05 km,W. The nearest airport is Birsa Munda Airport, Ranchi. (91km), NW. The nearest water bodies are Kadkai River 0.1km,S, Jaran Nadi - 5.4km, N & Kanu Nadi – 5.3km, W.
4. The site is coming under Special Planning Authority, Rairangpur, Odisha.
5. The total plot area is 9955.266 sq. m. / 2.46 Ac. / 0.99 Ha. with total built-up area 21,401.16 sq. m. Total violation built up area = 6,282.35 sq. m.
6. The Building Area Details of the Project in tabulated form:

Sl. No.	Area
Area of the site	9,955.266 sq. m.
Proposed F.A.R	1.707

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024



Proposed Ground Coverage	4,464.92 sq. m (44.8 % of total plot area)
Proposed built up area	21,401.16 sq. m
Proposed Building Height	S+4 (Block 1,4,5,6 and Commercial) = 14.55m, Block (2,3) = 14.75 m, And S+3 (Block 7,8) = 11.55 m
Maximum numbers of floors	4
Total Road and paved area	7947.96 sq. m
Total green area	2007.30 sq. m
Total Parking area	4355.80 sq. m
Total No. of Dwelling units	173

7. **Water Requirement:** Total Fresh water requirement is 88 KLD. The source of water is Ground Water.
8. **Wastewater generated:** Total waste water generated from the commercial building is 125 KLD. The waste water generated from the proposed project will be discharged to STP of 160 KLD capacity. After treatment of waste water in STP, treated water will be reused in flushing and greenbelt. There is proposal of one STP of 160 KLD capacity for the proposed project. Total 22 KLD of treated water will be discharged to Municipal Sewer of Rairangpur, Odisha during non-monsoon period and 52 KLD of treated water during monsoon period.
9. **Power requirement:** - Total Power requirement of the proposed building is 954 kW, Source is North Eastern Electricity Supply Company of Odisha limited Corporate Office, Odisha. For power back up 2 nos. of DG sets of capacities 320 kVA and 160 kVA has been purposed for the project. There are proposal of 48 kW (5%) contribution towards total power required in the project.
10. **Rainwater harvesting:** - Total amount of rainwater is 272 m³ and total 38 nos. of recharge pits has been proposed for the project.
11. **Parking requirement:** - Total parking of 4355.80 sq. m area proposed and 190 ECS has been proposed.
12. **Green Belt Development:** - Green belt will be developed over an area of 2007.30 sq. m which is 20.15 % of the total plot area. Total no of trees will be planted is 150 nos. which will be two-tier plantation.
13. **Solid Waste Generation:** During operation phase, the solid waste generated will be approximately 550 kg/day.
14. **Project cost:** The estimated project cost is Rs.46.72 Cr. and cost for EMP is Rs.105 lakhs.
15. **Environment Consultant:** The Environment consultant **M/s Visiontek Consultancy Services Pvt. Ltd. Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee.

2. **Whether SEAC recommended the proposal** – The Proposal was placed in the SEAC meeting held on 03.02.2024 and the SEAC observed the following:
This is a violation case as the PP submitted as per provisions of SOP dtd. 7th July, 2021 and OM dtd. 28th January, 2022. It is mentioned that the Hon'ble Supreme Court has stayed the operation of said OM of SOP dtd. 7th July, 2021 and OM dtd. 28th January, 2022. Hence, the proposal may be returned to SEIAA, Odisha for further action.



Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

Decision Of Authority: Return the proposal

The Authority observed that the PP has submitted the application as per provisions of SOP dtd. 7th July, 2021 and OM dtd. 28th January, 2022. It is mentioned that the Hon'ble Supreme Court has stayed the operation of said OM of SOP dtd. 7th July, 2021 and OM dtd. 28th January, 2022. Accordingly, the Authority decided to return the proposal to PP until further orders of Hon'ble Supreme Court in the matter.

Member Secretary, SEIAA

APPROVED BY

Member, SEIAA

Chairman, SEIAA

Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024



PARIVESH 1.0, AGENDA No.157.08

Proposal No.	SIA/OR/IND1/449057/2023
Date of application	08.11.2023
File no.	449057/50-IND1/11-2023
Project Type	ToR proposal
Category	B1
Project/Activity including Schedule No.	2(b) Mineral beneficiation
Name of the Project	Proposal for ToR for Beneficiation plant of capacity 9,60,000 TPA located Village Dubuna, Barbil, Dist- Keonjhar, State-Odisha for M/s High Grade Mineral Private Limited (HGMPL)
Name of the company/Organization	Ganesh Kumar Sharma, Director
Location of Project	Village Dubuna, Barbil, Dist- Keonjhar, State-Odisha
ToR Date	N/A
Name of the Consultant	M/s. Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar

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.

- The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
- This proposal is for Terms of Reference of M/s. High Grade Mineral Private Limited (HGMPL) for Iron Ore Beneficiation plant of capacity 9,60,000 TPA over an area of 6.97 Acre located Village Dubuna, Barbil, Dist- Keonjhar of Sri Ganesh Kumar Sharma.
- Category:** This project falls under Category "B" under 2(b): Mineral Beneficiation as per EIA Notification dated 14th Sept, 2006 and its amendments.
- Location and connectivity:** M/s High Grade Mineral Pvt. Ltd. has planned to set up an Iron Ore Beneficiation Plant of capacity 960000 TPA at village-Dubuna, Tehsil- Barbil, Dist- Keonjhar, Odisha. The geographical co-ordinates of the proposed site is Latitude: 21°51'02.9" N Longitude: 85°24'17.3" E. The project falls under Survey of India bearing Topo sheet no. 73G/5. The Plant site is connected to Joda-Bamebari-Palasponga road by a haul road and this road connected to NH-520 at a distance of 25 km. Nearest Railway siding is Nayagarh Railway siding at 5 km in East direction, nearest Airport is Bijupatnaik International Airport (264 km), District Headquarter: Keonjhar – 39km, nearest port is Paradeep port about 280 km from the project site. The nearest water bodies are Baitarani River – 4 km (E), Handibhanga Waterfall – 4 km (W), Kaijoda Waterfall –9 km (SW), Jagadala Reservoir – 8 km (SE), Balipada Nala – 4.5 km (E), SunaNala –8 km (W), Jalpa Nadi- 2 km (E).
- Kisam of land-** 6.97 Acre belongs to High Grade Mineral Private Limited, however during the verification of records, it was found that Hal ROR no. 82/95, 82/96 & 5 belongs to Jungle Kissam, which is under subjudice at the court of Additional Commissioner (Consolidation & settlement), Keonjhar vide letter No. 495 /Court dated 17.11.2023.

f) Material Balance:

Material	Fe (%)	Yield (%)	Annual Qty(MT)
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Minutes of 157th Meeting of SEIAA, Odisha held on 22.02.2024 & 23.02.2024

Raw Ore	54.5	100	9,60,000
Jig Beneficiated Coarse Ore (+) 4 mm to (-) 18mm	62	45.7	4,38,720
Jig Discard (+) 4 mm to (-) 18mm	40	11.8	1,13,280
Concentrated of fines beneficiation circuit (-) 75 microns	62	13.72	1,31,712
Tailings from fines circuit (-) 75 microns	45	28.78	2,76,288

- g) **Water requirement:** The total water requirement for the proposed project will be 31.5 m³/hr and make up water requirement for process will be 504 KLD which will be drawn from ground water source.
- h) **Wastewater details:** Water will be kept in closed circuit and recycled. The water utilized in the process will be recycled resulting in zero discharge of waste water. The tailing pond of adequate capacity will be constructed with suitable impervious lining to prevent percolation into ground water.
- i) **Power Requirement details:** The total power requirement for plant operation will be about 3.5 MW. The power supply will be sourced from TPNODL. There is provision of DG set of capacity 250 KVA for power back up.
- j) **Solid waste generation:** The major solid waste is the tailings & discards generated from the beneficiation process. The quantity of tailings to be 2,76,288 TPA and discards of quantity 1,13,280 TPA totalling to 3,89,568 TPA.
- k) **Mitigation of solid waste produced:** From the quality of the iron ore available in the region and based on the recovery pattern of similar plants working in the area, it is expected to recover 70-75% of the feed material as concentrate. The balance 25-30% will be disposed off in the form of tailings with filtration. It is proposed to utilize these tailings for brick manufacture, at a later stage of the project. Also, it is proposed to sell these to nearby cement plants, in the region. However, a space provision has been made in the plant layout to store the tailings in the designate tailing ponds, within the plant area. In dewatering, the water recovered is around 72%.
- l) **Greenbelt Development:** A greenbelt development plan will be prepared and implemented along with the project. Total green belt area shall be 0.94 Ha. The green belt will be developed @2500 trees per hectare. Greenbelt/plantation program will be undertaken in around the project.
- m) **Total Employment:** The project generates employment opportunities for 60 personnel during the construction phase. During its operation phase 48 personnel will be engaged directly and 100 personnel will have indirect employment.
- n) **Project Cost:** The project cost of the proposed project is 46 Crores.
- o) **Environment Consultant:** The Environment consultant M/s. **Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee.

2. **Whether SEAC recommended the proposal** – The proposal was placed in SEAC meeting held on 01.01.2023 and the SEAC prescribed the ToR for conducting detailed EIA study with following specific ToRs.

- (ii) Permission from CGWA and Water Resource Department for usage of surface water/ground water.



- (iii) Submit the Wildlife Conservation plan with distance from the nearby Reserve Forest.
 - (iv) Submit material balance with by-products generated from the process in a flow-chart.
 - (v) Submit chemical & mineralogical analysis of the raw mineral ore, fine ore & products from a NABL accredited lab.
 - (vi) Submit in tabular form for raw material procurement. Submit supporting documents like Memorandum of Agreement (MoU) with the Raw material suppliers atleast 4 sources, distance of these suppliers from the proposed project and transportation route to be followed to reach the plant.
 - (vii) Submit the detailed layout of the parking plaza.
 - (viii) The proponent shall provide facility for blending of raw material and raw material storage.
 - (ix) Chemical composition of the tailings along with percentage of recovery.
 - (x) The groundwater quality should be assessed for leachate control from the raw material stockyard.
 - (xi) Details of tailing process to be followed and its management.
 - (xii) Submit documents regarding land settlement and conversion of Kisam of land to appropriate category for Industrial use.
 - (xiii) Submit a detailed land use break-up.
 - (xiv) Complete usage of tailings should be provided in EIA.
 - (xv) Material balance with the process flow sheet for Iron ore processing should be supported by tests carried out by reputed Lab/Institute.
 - (xvi) Details of Chemical & Mineralogical analysis of the ROM feed, Products & Tailings should be submitted.
 - (xvii) The project proponent shall keep provision of solar power generation.
3. The proposal was placed in 150th SEIAA meeting held on 02.01.2024. The Authority observed that the project involves Jungle Kissam of land for which approval under FC Act is required. The PP is required to submit proof of applying the stage-1 FC for consideration of ToR proposal. Secondly, the detailed land schedule of the project area should be jointly signed by Tahasildar & DFO. Accordingly, ADS letter issued by SEIAA to PP on 08.01.2024.
4. Now, the PP has submitted clarification sought by SEIAA, Odisha

Decision of Authority: Deferred for ADS

The Authority observed that the PP has not submitted the two documents sought by SEIAA, Odisha regarding detailed land schedule of the project area jointly signed by concerned DFO & Tahasildar and proof of applying the stage-I for the forest land, if any. The Settlement records do not conclusively prove that the lease area does not have any forest land in Hal/Sabik record.

After detailed deliberation, the Authority decided that the PP is required to submit the documents as sought by SEIAA, Odisha, failing which, the ToR proposal shall be rejected.


Member Secretary, SEIAA

APPROVED BY

Member, SEIAA


Chairman, SEIAA