

**Minutes of 130<sup>th</sup> Meeting of SEIAA, Odisha Held on 01.08.2023, 02.08.2023 & 03.08.2023**



AGENDA NO.130.10	
Proposal No.	SIA/OR/MIN/419481/2023
Date of application	24.02.2023
File No.	419481/803-MINB1/03-2023
Project Type	Proposal for EC
Category	B1
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for grant of EC for Kotadwar Sand Ghat over an area of 50.00 acres or 20.235 ha. At village- Patugadadharpur, Tahasil-Banki, Cuttack district, Odisha
Name of the company/Organization	ABHISEK MOHANTY, Village-Patugadadharpur, Tahasil-Banki, Cuttack District, Odisha.
Location of Project	village- Patugadadharpur, Tahasil-Banki, Cuttack district, Odisha
ToR Date	26.08.2021
Name of the Consultant	M/s EHS360 Labs Pvt Ltd (EHS), Chennai - 68

**I. 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 Kotadwar Sand Ghat over an area of 20.235 ha. at village-Patugadadharpur, Tahasil - Banki, Cuttack district of Sri Abhisek Mohanty.
- (iii) The mining area is a part of Survey of India Toposheet No. 73H/11, and the lease area bounded by Latitude: 20°22'23.8" E to 20°22'43.5" E & longitude of 85°30'11.80" N to 85°30'35.30".
- (iv) The mining lease is an identified sairat source in the DSR. The Kotadwar Sand Ghat sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Banki to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (v) Documents submitted: -Form-1, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, 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 310FA3D32E dated 15.07.2021
- (viii) Distance from nearest sanctuary/ESZ- Chandaka WLS-17.0 Km
- (ix) Whether the lease area coming in DLC report-No,
- (x) Whether the lease area reflecting in DSR-Yes
- (xi) Method of mining-Manual
- (xii) River-Mahanadi, Depth of sand deposition-3.0
- (xiii) Distance from nearest road bridge-26.0 km, village road -2.5 km,
- (xiv) Whether it is part of cluster -No
- (xv) Whether EC obtained earlier-Yes and submitted EC compliance
- (xvi) Date of approval of mining plan- The Deputy Director of Geology, Bhubaneswar, vide Lr. No. 1149/DG dated 12.02.2019
- (xvii) Production capacity per annum-110000 cum/annum (max.), total production in 5 years period-550000 cum, Geological reserve-607050 cum and Mineable reserve-550002 cum and proposed depth of mining-1.8 m

YEAR	Surface area in m <sup>2</sup>	Thickness in mtr	PRODUCTION (m <sup>3</sup> )
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1 <sup>ST</sup> YEAR	36666.7	3	1,10,000
2 <sup>ND</sup> YEAR	36666.7	3	1,10,000
3 <sup>RD</sup> YEAR	36666.7	3	1,10,000
4 <sup>TH</sup> YEAR	36666.7	3	1,10,000
5 <sup>TH</sup> YEAR	36666.7	3	1,10,000
<b>TOTAL</b>			<b>5,50,000</b>

- (xviii) 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**
- (xix) **TOR Details:** Terms of Reference (TOR) was granted by SEIAA, Odisha vide letter no 2308/SEIAA dated: 26.08.2021.
- (xx) **Public hearing details:** The Public Hearing meeting for Kotadwara sand ghat on Mahanadi River over ML area 20.235 ha., was held on 09/02/2022 at 11:30 am at Patugadadharpur Village, field near Kotadwara School under Banki Tahasil of Cuttack District. Issues raised during public hearing are plantation to be done, provide tarpaulin cover on sand loaded vehicles, provide water sprinkling on road during movement of vehicles. Regulate the movement of sand vehicles by taking care of the movement of school, college students and domestic animals. Budget earmarked for the action plan of public hearing is Rs. 7.10 lakhs
- (xxi) **Replenishment Study Report** – For Replenishment study, the survey was done by using UAV/Drone which indicates the mineable sand deposit is around 33525 cum. 60% of the above computed mineable reserve has been taken as available mineable reserve over the area as per MoEF Notification dated 25.07.2018. Maximum of 33525 cum of sand per annum may be allowed for mining activities. 60% of the mineable reserve is **20115 cum**. The maximum extraction limit as per sustainable sand mining Rule of MoEF Guideline is 20115cum.
- (xxii) **Replenishment study:** For the said project, replenishment study has been carried out by Volumetric Survey using GPS to define the topography, Contours, RLs of the lease area. The Pre-monsoon Survey was carried out on 04.06.2022 by Field Survey method whereas the post-monsoon survey has been done on 21.12.2022 using Drone & DGPS. In order to estimate the replenished volumes of sand, Cross-section points of each grids for both the surveyed data were compared, the data obtained in pre-monsoon & post monsoon surveys. The safe workable area due to various statutory mining restrictions as per the Sand Mining Guideline, 2020 has been considered for calculations of reserve estimation. It is estimated that an area of 124695 m<sup>2</sup> during pre-monsoon survey & 140610 m<sup>2</sup> during post-monsoon survey is considered as safe workable area. From the study, it is found that the quantity of sand available during pre-monsoon survey is 224451 m<sup>3</sup>. The quantity of sand available during Post-monsoon survey is 253098 m<sup>3</sup>. The Replenishment Volume = 253098 - 224451 = 28647 m<sup>3</sup>. It may be concluded that 28647 m<sup>3</sup> volume of sand is replenished during monsoon, which can be treated as safe extractable within the framework of the study

Surveys	Safe workable Area in m <sup>2</sup>	Average thickness in m	Mineable Volume (m <sup>3</sup> )	Extractable Volume = 60% in m <sup>3</sup>
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Pre-monsoon Survey	124695	3	374085	224451
Post-Monsoon Survey	140610	3	421830	253098

(xxiii) **Project cost:** Total cost of Project is Rs. 2.0 Crores. CER and CSR budget includes Rs.4 lakhs and Rs. 20,000 respectively. Environment Management Plan Cost includes a capital cost of Rs. 155000 and recurring cost of Rs.96000.

(xxiv) Any deficiencies/omission have been noticed in the above documents-Not submitted last five years production.

- 2. Whether SEAC recommended the proposal –** The proposal was placed in the SEAC meeting held on 11.07.2023 and the SEAC **recommended** the proposal for EC with observation: -
- Amended EIA Notification dated 25<sup>th</sup> July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – D**.
  - Sand extraction shall be limited to quantity (28647 cum) and depth as per Replenishment Study Report submitted. 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.
  - At Banki side, there is a small stream at the proposed mining area but now almost dried up. So, NOC/ permission from Water Resources department shall be obtained for transportation within the river in case of occasional water flow.**

**Decision Of Authority: ADS**

After detailed deliberation in the matter, the Authority decided to seek clarification on the following:  
(i)The PP is required to clarify why the present application shall not be rejected as there is another application vide proposal no.SIA/OR/MIN/405647/2022 in the Parivesh portal under the same subject.  
(ii)The PP is required to submit certified compliance report duly signed by Tahasildar, Banki indicating the latest compliance.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA

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03.08.2023**



AGENDA NO.130.11	
Proposal No.	SIA/OR/MIN/419961/2023
Date of application	25.02.2023
File No.	419961/319-MINBI-02-2023
Project Type	Proposal for EC
Category	B1
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for grant of EC for Badamdhapur Sand Quarry over an area of 6.070 ha located at Khata No. 1399, Plot No. 909/7520, village- Badamadhapur, Tehsil-Chatrapur, District- Ganjam, State -Odisha
Name of the company/Organization	Sri Sarat Behera At-Kholamunda, Tahsil- Pallahara, Dist- Anugul
Location of Project	Badamadhapur, Tehsil-Chatrapur, District- Ganjam, State - Odisha
ToR Date	19.05.2022
Name of the Consultant	M/s P and M Solution

- 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.
- This proposal is for Environmental Clearance of Badamadhapur Sand Quarry over an area of 6.070 ha. is located at Khata No. 1399, Plot No. 909/7520, village- Badamadhapur, Tahasil -Chatrapur, District - Ganjam of Sri Sarat Behera.
- 3. Category:** As per EIA notification 2006 and subsequent amendments, the project falls under B1 category item I(a)-Mining of Minerals in the Schedule of EIA Notification, 2006 & Subsequent amendments thereof. The project is coming under B1 Category as the lease area is greater than 5.0 Ha.
- Letter of Intent has been issued by Tahasildar, Chatrapur to Successful Bidder Sri Sarat Behera vide letter no.2026 dated 09.05.2022.
- The mining plan for the ML area has been approved by the O/o Joint Director of Geology, South Zone, Berhampur, Odisha vide Memo no 430 /SZ dated 05.04.2022.
- 6. TOR Details:** Terms of Reference (TOR) was granted by SEIAA, Odisha vide letter no 4567/SEIAA dated: 19.05.2022.
- 7. Public hearing:** Public hearing was successfully executed on date 11.11.2022 at Mouza- Badamadhapur (over the Govt. Land in Khata No 1397, Plot No 10, Area 0.050 Acres, which is adjacent to Kali Thakurani Temple).Issues raised during public hearing are speed of transporting vehicles shall be controlled in market area and road passing adjacent to schools, air pollution due to transportation is impacting vegetation, hence water sprinkling should be carried out on transportation roads; dust pollution, traffic personnel should be appointed in order to check traffic during rush time, plantation should be undertaken around river bank as well as along road, 2% of profit margin from the mining should be invested in development of the locality, health facility, local employment, social activity / local development, plantation of fruit bearing plants along the transportation roads. Budget allocated towards Public Hearing issues has covered under Environment Management Plan (i.e., Rs. 4.464 Lakhs as Capital Cost & Rs. 2.83 Lakh as Recurring cost) Occupational Health (Rs. 2.52 lakhs) and CER (Rs. 1 lakh) respectively.
- 8. Location and connectivity:** The mine lease area is located in Village - Badamadhapur, Tahasil - Chatrapur, District - Ganjam, is on Khata No. 1399, Plot No. 909/7520 of Rushikulya river covered in

the Survey of India Topo Sheet No – 74A/14, 74A/15, 74E/2 & 74E/3 and is bounded between the Latitude - 19°27'41.6" N to 19°27'55.2" N and Longitude – 84°58'04.8" E to 84°58'14.5" E. Nearest river bridge, river embankment, electric H.T line is 2.56 km, 0.15km and 0.57 km respectively. Nearest Railway Station is Ganjam Railway Station, approx 10.8 km towards ESE direction. Nearest Airport is Biju Patnaik International Airport is approx 124.0 km towards NE direction. SH-31 is approx 4.20 km in NE direction. NH- 16 is approx 11.80 km in East direction. Mathakhol RF is approx 5.20 km in NE direction.

9. **Topography and drainage:** The topography of the area is more or less flat with highest elevation of 7 mRL. The lease area here is a Sand Quarry. Drainage system in the region is dendritic. General flow direction of Rushikulya River is from North West to South East. Work will continue only during summer months when there is no water in the leasehold. Mining will be restricted to a 1.20 m depth
10. **Replenishment details:** 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 area and common safe workable area respectively. the volume of sand available after post monsoon is around 34190 m<sup>3</sup>, 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 (during mining plan preparation) is 63120 m<sup>3</sup>. As it is a new mine no excavation has done in this year. So, total minable reserve available for mining is 63120 + 34190= 97310 m<sup>3</sup> whereas, approved production capacity for the year is **21850 m<sup>3</sup>**.
11. **Baseline summary:** Baseline study has been conducted for Pre Monsoon Season i.e., from March 2022 to May, 2022
  - a) **Ambient Air Quality:** Monitoring results reveals that the minimum & maximum concentrations of PM10 for all the 7 AQ monitoring stations were found to be 53.26 µg/m<sup>3</sup> at AQ4 and 81.95 µg/m<sup>3</sup> at AQ1, respectively. The minimum & maximum concentrations of PM2.5 were found to be 24.36 µg/m<sup>3</sup> at AQ3 and 40.77 µg/m<sup>3</sup> at AQ7, respectively. As far as the gaseous pollutants SO2 and NOx are concerned, the prescribed CPCB limit of 80µg/m<sup>3</sup> for residential and rural areas has never surpassed at any station. The minimum & maximum concentrations of SO2 were found to be 7.24 µg/m<sup>3</sup> at AQ4 & 11.43 µg/m<sup>3</sup> at AQ3, respectively. The maximum & minimum concentrations of NOX were found to be 10.36 µg/m<sup>3</sup> at AQ6 & 17.14 µg/m<sup>3</sup> at AQ7, respectively.
  - b) **Ground water Quality:** Monitoring results reveals that pH varies from 7.26 at GW6 to 7.89 at GW5 during study period. Total hardness varies from 359.47 mg/l at GW5 to 505.79mg/l at GW4 during study period. Total dissolved solids vary from 1053.14 mg/l at GW5 to 1481.83 mg/l at GW4 during study period.
  - c) **Surface water Quality:** The analysis results indicate that the pH ranges between 7.32 and 7.46. Dissolved Oxygen (DO) was observed in the range of 4.8 to 7.5 mg/l against the minimum requirement of 4 mg/l. BOD values were observed to be in the range of 4.1 – 7.80 mg/l. The chlorides and Sulphates were found to be in the range. Based on the results it is evident that most of the parameters of the samples comply with 'Category 'B' standards of CPCB indicating their suitability for Drinking water source after conventional treatment and disinfection.
  - d) **Noise levels:** Noise monitoring reveals that the maximum & minimum noise levels at day time were recorded as 57.9 Leq. dB (A) at NQ1 & 50.8 dB (A) at NQ5, respectively. The maximum & minimum noise levels at night time were found to be 47.6 dB (A) at NQ1 & 37.5 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.
  - e) **Soil environment:** Samples collected from identified locations indicate the soil is sandy type and the pH value ranging from 7.25 to 7.81, which shows that the soil is alkaline in nature. Potassium content

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is found to be from 218.20 mg/kg to 297.28 mg/kg. The water holding capacity is found in between 30.00% to 35.80%.

12. **Total production and reserves:** Proposed sand quarry is scheduled to produce @ 21,850 cum/year (maximum) 109250 cum is the total production for the plan period. As estimated geological and mineable reserves of the proposed project is 72840 and 63120cum respectively.

Year	Vol. of Sand in (cum)
1st	21,850
2nd	21,850
3rd	21,850
4th	21,850
5th	21,850
<b>Total</b>	<b>1,09,250</b>

13. **Method of mining:** The sand will be excavated by open cast pit manual method. Since the depth of mining is 1.20 m, excavator, handpicks, spade, hand shovel will be used by laborers for extracting & loading of sand. Benching parameters is not feasible in case of sand mining. The maximum depth of mining will be 1.20 m. The mine will be developed in South to North direction. At the end of plan period the quarry floor will be 7.00 mRL.
14. **Water requirement:** The water requirement for workers for drinking purpose will be around 0.52 KLD & the total water requirement will be around 4.73 KLD.

Activity	Calculation	KLD
Drinking	@ 10 lped per labor $10 * 52 / 1000 = 0.52$ KLD	0.52 KLD
Dust Suppression	Total approach road to be water sprinkled = 500 m $500 \text{ m} * 6 \text{ m} * 0.5 * 2 \text{ times} / 1000 = 3.0$ KLD	3.0 KLD
Plantation	607 plant (during plan period) @ 2 L/per plant = $607 * 2 \text{ lts} = 1214 / 1000 = 1.21$ KLD	1.21 KLD
<b>Total</b>		<b>4.73</b> <b>KLD</b>

15. **Traffic study:** The V/C ratio will be changed from 0.191 to 0.195 with LOS remain "A" i.e. "Excellent". So the additional load on the carrying capacity will be affected to a minimum level
16. **Green belt:** Plantation will be done along the approach road and around the river banks. About 607 numbers of trees will be planted along approach road & around the river banks during the first year. Plantation will be done with suitable local species like Teak, Mango, Neem, Jammun, Jhaun etc after consultation with the local authorities.

Year	Greenbelt development	Plantation along both sides of approach road	Plantation around the River Banks	Location	Species
1 <sup>st</sup> Year				Approach road - 320 nos - along both sides 0.50 km of approach road at spacing of 2 m.	Guava, Teak, mango, Jammun, jhaun, neem etc.
2 <sup>nd</sup> year	607 plants	320	287		
3 <sup>rd</sup> year	Care / protection of Plants				
4 <sup>th</sup> year					
5 <sup>th</sup> Year					

				Around the River Banks – 287 nos.	
<b>Total</b>	<b>607</b>	<b>320</b>	<b>287</b>		----

17. **Manpower requirement:** A total of 52 nos. of manpower are to be employed in the lease area for mining 21,850 cum/year of sand. Indirect employment through creation of shops/ stalls, hired vehicles, etc. also can be generated to full fill the day to day requirements of the mining personnel.

18. **Project cost:** Estimated cost of the proposed project is 50.0 lakhs. Capital cost of EMP is Rs. 4,464 Lakhs Recurring cost of the EMP is Rs. 2.83 Lakh. Budget for Occupational Health and CER is Rs. 2.52 lakhs and Rs. 1 lakh respectively.

**BUDGET FOR ENVIRONMENTAL PROTECTION**

Sl. No.	Measures	Capital Cost (In Rs.)	Recurring Cost (In Rs.)
1.	Pollution Control Dust Suppression /Water Sprinkling	2,00,000	50,000
2.	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	50,000 40,000 20,000 10,000
3.	Green Belt Development	1,21,400	50,000
4.	Maintenance of Haul Road	1,25,000	63,000
<b>Total</b>		<b>4,46,400</b>	<b>2,83,000</b>

**Budget for Corporate Environmental Responsibility (CER)**

Sl. No.	Activity	Capital Cost (in Rs./annum)
1.	Financial aid for medical camp in Badamadhapur village. @ Rs. 50,000/ camp ( 1 camp in a year)	50,000
2.	Provision of toilets and sanitation in Badamadhapur village.	25,000
3.	Skill development program camps like computer learning, sewing etc. in Badamadhapur village. @Rs 25,000/trainer (1 trainer)	25,000
<b>TOTAL</b>		<b>1,00,000</b>

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

3. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 11.07.2023 and the SEAC **recommended** the proposal for EC with observation: -

- Amended EIA Notification dated 25<sup>th</sup> July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – D**.
- Sand extraction shall be limited to quantity and depth as per replenishment Study Report submitted. 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.

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**Decision Of Authority: Approved**

After detailed deliberation in the matter, the Authority decided to grant EC with usual stipulated conditions as applicable for sand quarry:

- (i) Maximum depth of mining 1.0 meter and maximum quantity of extraction shall be limited to **21850 cum** in 1<sup>st</sup> year and **5462 cum** in 2<sup>nd</sup> year on adhoc basis. PP shall submit Annual rate of replenishment study (ARRS) report through ORSAC empanel agency by **December 2025**.
- (ii) The validity of EC is for 1<sup>st</sup> year and 2<sup>nd</sup> year or validity of DSR or validity of lease period whichever is earlier.
- (iii) 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).
- (iv) The Project proponent shall follow Enforcement & Monitoring Guideline for sand mining-2020 before and during operation of quarry.
- (v) 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.
- (vi) The PP will implement the EMP with a budgetary allocation of Rs. 4.464 Lakh as capital cost & Rs.2.83Lakhs/annum as recurring cost as proposed during the valid lease period of 5 years.
- (vii) The PP shall comply to the issues raised during public hearing. The PP will spend Rs. 1.00 Lakhs/annum towards CER & Rs. 2.52 lakhs towards occupational health of workers as proposed for compliance of public hearing issues.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
07/09/23  
Chairman, SEIAA



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**AGENDA NO.130.12**

Proposal No.	SIA/OR/MIN/422257/2023
Date of application	15.03.2023
File No.	422257/802-MINB1/32-2023
Project Type	Proposal for EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for grant of EC for Baitarani River Sand Bed over an area of 8.62 Ha in Village Jambhara, tahasil Hatadihi, Keonjhar district of Odisha
Name of the company/Organization	GURUBRATA KHANDAI At - Solapata, PS - Nandipada Jambhara, Keonjhar, 758083
Location of Project	Village Jambhara, tahasil Hatadihi, Keonjhar district of Odisha
ToR Date	28.02.2021
Name of the Consultant	M/s EHS360 Labs Pvt Ltd (EHSL), Chennai - 68

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 Baitarani River Sand Bed, Jambhara over an area of 8.62 Ha. in Village Jambhara, Tahasil Hatadihi, Keonjhar district of Sri Gurubrata Khandai.
  2. **Category:** This project falls under Category "B1" under Schedule of Item 1(a)-Mining of Minerals as per the EIA Notification, 2006 and its amendments thereof.
  3. Letter of Intent has been issued by Tahasildar, Hatadihi to Successful Bidder Sri Gurubrata Khandai vide letter no.6411 dated 25.09.2020.
  4. The Mining plan has been approved for a period of five years i.e. 2020-21 to 2024-25 by The Joint Director of Geology, Keonjhar vide letter no - 2398/CZ, on dated 30.07.2020 in favour of Tahsildar, Hatadihi.
  5. **TOR details:** Terms of Reference (TOR) has been issued by State Impact Assessment Authority (SEIAA) Orissa vide File No. 59914/57- MINB1/01-2021; dated 28.02.2021.
  6. **Public hearing details:** Public Hearing was held on 13.05.2022 (11:00 am) at Jambhara village of Keonjhar district. Issues raised during public hearing are air pollution control, road repair and plantation. Budget earmarked for action plan of public hearing is **Rs. 12 lakhs.**
  7. **Location and connectivity:** The said lease is located in survey of India Topo Sheet No. 73 K/4, bounded by Latitude: 21002'19.78" to 21002'36.93" N, Longitude: 86013'58.07" to 86014'07.93" E bearing Khata No-237 Plot No-1689/2080, Kisam Nadi. The Lease area is accessible from Jambhara-Hubaleswar village road at a distance of 0.25 km, which is well connected to Highways. Nearest National Highway at a distance of 11.27 Km (SSE) and State Highway SH-53 at a distance of 11.75 KM (NNE). The nearest railway station is Baitarani Railway Station at distance 5.74 km and Biju Patnaik International Airport is at a distance 97.19km from the lease area. Nearest city is Byasanagar at 14.32 km, 92.93km from District Headquarters, Keonjhar. Nearest Road Bridge is at 1.5km and electric transmission line is 0.25km.
  8. **Replenishment study:** For the said project replenishment study has been done by UAV/Drone survey (volumetric survey) method. Presently, for the purpose of replenishment study, two surveys were carried out for data acquisition, the first one for pre-monsoon data on 14.06.2022 and the second one for post monsoon data on 12.11.2022 by using UAV/Drone. Considering a common safe workable area of 21254.53 m<sup>2</sup>, it is observed that replenishment of 891.5m<sup>3</sup> has been done with an average

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03.08.2023**

thickness of 0.04m. But, here it may be mentioned that the volume of sand available during post monsoon survey around 9345.883m<sup>3</sup>, which can be treated as safe extractable within the framework of the study.

**9. Reserves and total production:** As estimated, geological reserve of sand is 68960 cum and mineable reserve is 61343 cum. During the plan period, a total of 36806 cum sand will be extracted. At the end of the plan period the quarry level will be 30.1 m RL. **7361 cum/annum** will be the yearly production and total production for plan period of five years will be 36805 cum.

Year	Production (m <sup>3</sup> )
1st Year	7361
2nd Year	7361
3rd Year	7361
4th Year	7361
5th Year	7361
<b>Total</b>	<b>36,805</b>

- 10. Method of mining:** The winning of mineable reserve of sand of Baitarini sand quarry will be carried out by opencast by manual dry pit mining method. Sand is to be excavated in layers up to an depth of 0.4m. No machines are proposed to be deployed to carry out wining of sand. Total handling of sand from excavation screening stacking and loading to the user carriers like tractors/Tippers will be done manually. The transport carriers will be covered by tarpaulin to prevent air pollution due to flying of sand from the surface of the transport carrier by wind velocity during the course of transportation.
- 11. Water Requirement:** Total water requirement or this project is approx, 1 KLD that will be required for different purposes like domestic, dust suppression, plantation purposes & sourced from as per the availability.
- 12. Power/Fuel Requirement:** No electrical power shall be required for operations as the mining will be worked out during day time only. Minimal power required for office shall be taken from the General Electric supply of the area. Dumpers, tractors will be used for transportation. So, the approximate quantity of the fuel used per day is 80 Lts/day.
- 13. Greenbelt:** It is proposed to have plantation on both sides of the roads as greenbelt to provide cover against dust dissemination. Riverbanks will be strengthened by way of plantation on the banks. Plantation will also be carried out as social forestry programme in village, school and the areas allocated by the Panchayat/State authorities. Native plants and other local species will be planted. A suitable combination of trees that can grow fast and have good leaf cover shall be adopted to develop the greenbelt. It is proposed to plant 250 numbers of native species will be planted during the 5-year plan period.

S. No.	Saplings to be planted	Species	Place of Plantation
i)	50	Neem, Peepal, Mango, Shisham, Sirish, Babool, Chakunda	Along the river bank & Approach road
ii)	50		
iii)	50		
iv)	50		
v)	50		
<b>Total</b>	<b>250</b>		

14. **Manpower Requirement:** In the mine for total production of 7361 cum/Annum of River Sand and 11 nos. of person are to be employed daily. The indirect employment opportunities for hired vehicles, etc. also can be generated to full fill the day-to-day requirements of the mining personals.

15. **Project Cost:** The project proponent will incur a total cost of Rs. 50.00 Lakhs for the proposed project. 2.0 % of capital cost has been earmarked towards CSR is Rs 1.00 Lakh. Environment Management Plan (EMP) cost will include a capital cost of Rs. 2,50,000 and recurring cost of Rs. 50,000 as per the given Table.

Particulars	Capital Cost	Recurring Cost
Dust suppression and Pollution Control	1,00,000	30000
Environmental Monitoring	1,00,000	15000
Plantation	50,000	15000
<b>Totals</b>	<b>250000</b>	<b>50000</b>

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

2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 11.07.2023 and the SEAC **recommended** the proposal for EC with observation:-

- a) Amended EIA Notification dated 25<sup>th</sup> July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – D**.
- b) Sand extraction shall be limited to quantity replenished (891.5 cum) 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.

**Decision Of Authority: Approved**

After detailed deliberation in the matter, the Authority decided to grant EC with usual stipulated conditions as applicable for sand quarry:

- (i) Maximum depth of mining 0.4 meter and maximum quantity of extraction shall be limited to **891.5 cum** in 1<sup>st</sup> year and **891.5 cum** in 2<sup>nd</sup> year on adhoc basis. PP shall submit Annual rate of replenishment study (ARRS) report through ORSAC empanel agency by **December 2025**.
- (ii) The validity of EC is for 1<sup>st</sup> year and 2<sup>nd</sup> year or validity of DSR or validity of lease period whichever is earlier.
- (iii) 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).
- (iv) The Project proponent shall follow Enforcement & Monitoring Guideline for sand mining-2020 before and during operation of quarry.
- (v) The Project Proponent (lease holder) shall deposit Rs.4,25,000/-, with the respective District Environment Society for raising 850 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.

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03.08.2023**

- (vi) The PP will implement the EMP with a budgetary allocation of Rs. 2.50 Lakh as capital cost & Rs. 50,000/- as recurring cost as proposed during the valid lease period of 5 years.
- (vii) The PP shall comply to the issues raised during public hearing. The PP will spend Rs. 12.00 Lakhs & CSR of Rs. 1.00 Lakhs, as proposed, towards compliance of public hearing issues.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA

**Minutes of 130<sup>th</sup> Meeting of SEIAA, Odisha Held on 01.08.2023, 02.08.2023 & 03.08.2023**

**AGENDA NO.130.13**

Proposal No.	SIA/OR/MIN/417777/2023
Date of application	27.03.2023
File No.	417777/321-MINBI/03-2023
Project Type	Proposal for EC
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for grant of EC for Laxmipur sand Quarry (River-Rushikulya) over an area of 12.959 acres or 5.24 Ha at village-Laxmipur, Tahasil-Dharakote, Dist-Ganjam
Name of the company/Organization	Kalpana Nayak At/Po- Kalasandhapur, Ps- Asika Dist -Ganjam, Pin-761106
Location of Project	village-Laxmipur, Tahasil-Dharakote, Dist-Ganjam
ToR Date	19.08.2022
Name of the Consultant	M/s Parivesh Environmental Engineering Services (PEES), Lucknow - 22

- 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 Laxmipur Sand quarry** which is a sand mining project over an area of 12.959 Acres/ 5.244ha. located in Village - Laxmipur, Tahasil - Dharakote in District - Ganjam of Smt. Kalpana Nayak.
- 2. Category:** As per EIA notification 2006 and subsequent amendments, the project falls under B1 category item 1(a)-Mining of Minerals in the Schedule of EIA Notification, 2006 & Subsequent amendments thereof. The project is coming under B1 Category as the lease area is greater than 5.0 Ha.
- 3. The mining lease granted by Tahasildar, Dharakote, Ganjam** has been auctioned and leased out to the successful bidder Smt. Kalpana Nayak, W/o - Narasingha Nayak, At/PO - Kalasandhapur, PS- Asika, Dist- Ganjam, Odisha after obtaining statutory clearances. The mining lease will be granted on for long term basis for 5 years and the lease period will start from the date of registration of executed lease deed.
- 4. Letter of Intent has been issued by Tahasildar, Dharakote to Kalpana Nayak** vide letter no.1003 dated 29.03.2022 for a period of five years.
- 5. The Mining plan has been approved by the Deputy Director of Geology (Authorised Officer), O/o The Joint Director of Geology (S.Z), Berhampur** vide memo no - 590/SZ on dated 02.05.2022.
- 6. TOR Details:** Terms of Reference (TOR) was granted by SEIAA, Odisha vide letter no 5195 dated 19.08.2022.
- 7. The mining lease area is listed as an identified sand minor mineral in Page - 93, Serial no -4, in DSR of the Ganjam district.** The sand quarry lies on riverbed Rushikulya.
- 8. Public hearing details:** The public hearing in respect of the above project was held on 24.11.2022 as per schedule and the venue in accordance with the EIA notification S.O.1533 (E) dt.14.09.2006. Issues raised during public hearing are air pollution control, plantation and environment protection, tarpauline covers of transporting vehicles, damage of roads due to plying of heavy vehicles, health facility, drinking water facility, irrigation facility, local employment and development. The budget incurred for the action plan of public hearing is Rs. 3,50,000 lakhs.
- 9. Location and connectivity:** The Laxmipur Sand quarry is on Khata no- 189, Plot no -302 & 580 (P) of Kissam Nadi at village Laxmipur in Dharakote Tahasil in Ganjam District of Odisha. The area under discussion is featured in Survey of India Topo Sheet No - E45A10 and is bounded between the Latitude -19° 37' 06.32" N to 19° 37' 23.04" N and Longitude - 84° 37' 13.58" E to 84° 37' 20.96" E. The lease area is located at a distance of 0.71km from village Laxmipur and at a distance of 7 kms from Dharakote 52 kms from the District Headquarters Ganjam and 146 kms from the State Capital Bhubaneswar.

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Brahmapur Railway station is the nearest railway station located at a distance of 38 kms from the lease area. Nearest Road Bridge is at a distance of 1.62 km from the mining lease area. Metal road connecting to the lease area and is at distance of 0.18 km. SH – 7 is at 4 km and it is the nearest State highway. NH-59 is the nearest National Highway which is at a distance of 1.3km. Nearest road bridge, river embankment, electric transmission line pole 1.62km, 120m and 710m respectively. The proposed area falls in seismic Zone – II as per IS – 1893 (Part-1) – 2002.

10. There is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/ Elephant Reserves (existing) is situated within 10km of the mining lease area.
11. **Replenishment study:** The volume of sand available after post monsoon is around 10,406 m<sup>3</sup>, which can be treated as safe extractable within the framework of the study after arrival of river level. Further volume of sand which can be extracted as on date (Pre- monsoon survey date) is 22,425 m<sup>3</sup>. As it is a new mine no excavation has done in this year. But in post-monsoon the available area for mining is 12,100 m<sup>2</sup> and available sand is 10,406 m<sup>3</sup> whereas, approved production capacity for the year is 11,000 m<sup>3</sup>.
12. **Total production and reserves:** The average production is proposed to be 11000cum/year and 55000 cum is the total production during the plan period. As estimated, total geological reserve of sand is 54502.5 cu.m/annum and mineable reserves is 37425 cum per annum. Extractable mineable reserve is 22425 cum.
13. **Mining method:** The mode of the deposit, geomorphology of the area and its hydrological condition are some of the factors that favours the open cast method of mining. Mining will be done with manual method transported from Laxmipur sand bed to the users/ destination through trucks /tractors. The mining will be undertaken on single shift basis. The local man power shall be engaged in the mine. No benching will be necessary. One quarry with a depth of 1.0 m will be developed. The floor level at the end of the five-year plan period of the concession will be 43 m RL.
14. **Water requirement:** Total water requirement for the project will be 3.0 KLD. Water required in the project will be for drinking purpose and dust suppression, which will be sourced from water tanker. NOC will be obtained from Gram Panchayat.
15. **Mine Drainage:** The entire deposits will be protected by making barrier around the lease boundary. Mining will be done above the water level of river. Any water accumulating inside the quarry due to occasional rain will be allowed to percolate into the quarry floor.
16. **Power Requirement:** Power requirement will not be required for operations as the mining will be worked out during daytime only. Minimal power required for office shall be taken from the General Electric supply of the area.
17. **Greenbelt:** Plantation will be done on the bank of the river.250 plants are to be planted on the riverbank to protect the river bank side from erosion & protection of the environment. Sampling of trees like Karanja, Nim, Banyan, Peepal, Mahaneem, Arjun Kadamba, Mango, Jackfruit, Jamun, Kendu etc to be planted
18. **Employment Generation:** For the proposed project is 23 nos. of people is required as manpower. Indirect employment through creation of shops/ stalls, hired vehicles, etc. also can be generated to full fill the day-to-day requirements of the mining personals.
19. **Project cost:** The estimated cost of the project is Rs. 50.00 Lakhs. A budget of Rs 4.7 lakhs as capital cost and Rs. 2.35 lakhs as recurring cost is allocated for environment protection measures.

S. No.	Description	Capital Cost (Rs.)	Recurring Cost (Rs.)
i)	Air pollution Control; Dust Suppression/ Water Sprinkling	30,000	1,00,000
ii)	Road Maintenance	50,000	60,000
iii)	Greenbelt	40,000	25,000
iv)	Personal Protective Equipment	-	20,000
v)	Environmental monitoring	-	30,000
vi)	Addressal of Public Hearing issues	3,50,000	-
<b>Total</b>		<b>4,70,000/-</b>	<b>2,35,000</b>

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

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2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 11.07.2023 and the SEAC **recommended** the proposal for EC with observation: -
- Amended EIA Notification dated 25<sup>th</sup> July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per **Annexure – D**.
  - Extraction of sand 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.

**Decision Of Authority: Approved**

The Authority observed that the ARSS has not been carried out as per MoEF & CC, GoI Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020 and opined that PP shall carried out ARSS afresh for the project. After detailed deliberation in the matter, the Authority decided to grant EC with usual stipulated conditions as applicable for sand quarry with the following specific conditions:

- Maximum depth of mining 1.0 meter and maximum quantity of extraction shall be limited to **10406 cum** in 1<sup>st</sup> year and **2600 cum** in 2<sup>nd</sup> year on adhoc basis. PP shall submit Annual rate of replenishment study (ARRS) report through ORSAC empanel agency by **March 2025**.
- The validity of EC is for 1<sup>st</sup> year and 2<sup>nd</sup> year or 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 shall follow Enforcement & Monitoring Guideline for sand mining-2020 before and during operation of quarry.
- 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. 4.70 Lakh as capital cost & Rs.2.35Lakhs/annum as recurring cost as proposed during the valid lease period of 5 years.
- The PP shall comply to the issues raised during public hearing. The PP will spend Rs. 3.50 Lakhs as proposed towards compliance of public hearing issues.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA

**Minutes of 130<sup>th</sup> Meeting of SEIAA, Odisha Held on 01.08.2023, 02.08.2023 & 03.08.2023**

**AGENDA NO.130.14**

Proposal No.	SIA/OR/IND2/291694/2022
Date of application	13.03.2023
File no.	SIA/OR/IND2/214150/2021
Project Type	Proposal for Extension of validity EC as per excise license period.
Category	B2
Project/Activity including Schedule No.	5(g) Distilleries
Name of the Project	Proposal For Extension of Validity EC for Production of 2.37KLD Mahua Flower Based out Still Country Liquor Manufacturing Unit, Main O S Liquor Shop, At- Pitala, Ps- Hinjilicut, Dist- Ganjam
Name of the company/Organization	Kafia Sethi
Location of Project	At- Pitala, Ps- Hinjilicut, Dist- Ganjam
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.
  - This is a proposal for Extension of validity EC for production of 2.37KLD Mahua Flower Based Out Still Country Liquor Manufacturing Unit, Main O S Liquor Shop, At- Pitala, Ps- Hinjilicut, Dist- Ganjam
  - The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. 7628/SEIAA dated 07.12.2019 and later EC extended for excise license period vide letter no. 1834/SEIAA dated 26.07.2021 in favour of Sri KALIA SETHI (Licensee) for production of 2.37KLD Mahua Flower Based Out Still Country Liquor Manufacturing Unit, Main O S Liquor Shop, At- Pitala, Ps- Hinjilicut, Dist- Ganjam The excise licensee No. 12/2019/0094 issued by Superintendent of Excise, Berhampur is valid upto 31.03.2024
  - The PP has submitted compliance of earlier EC conditions.
  - 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 28<sup>th</sup> & 30<sup>th</sup> June 2023 and the SEAC reiterates its earlier recommendation for revalidation of country liquor proposals as decided in its meeting held on 31.10.2019 and opined that revalidation of Environmental Clearance is not required for the unit as it is already operational unit. Further, the SEAC opined that fresh Environmental Clearance is also not required for the proposal as it is not shifting the unit to other location and / or going for higher production capacity. The SEAC recommended to return these proposals to SEIAA, Odisha with a request to communicate the proponents as above.

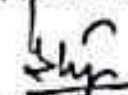
**Decision Of Authority: Approved**

After detailed deliberation the Authority **allowed extension of validity of EC** up to excise license period i.e. 31.03.2024 subject to conditions that the Project Proponent (lease holder) shall deposit Rs.50,000/-, with the respective District Environment Society for raising 100 plants of native species especially Mahua Plant (*Madhuca Indica*) within 2 years in a suitable location or village common land adjoining to the unit.

- The other stipulated terms and conditions of the original EC initially granted remains same subject to satisfactory compliance to all the stipulated terms and conditions of EC.

Member Secretary, SEIAA

APPROVED BY

  
Member, SEIAA

  
Chairman, SEIAA



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**AGENDA NO.130.15**

Proposal No.	Sia/Or/Ind2/291787/2022
Date of application	16.03.2023
File no.	Sia/Or/Ind2/214656/2021
Project Type	Proposal For Extension of Validity EC as per Excise License Period.
Category	B2
Project/Activity including Schedule No.	5(g) Distilleries
Name of the Project	Proposal for Extension of Validity EC for Production of 3.822 KLD Mahua Flower Based Out Still Country Liquor Manufacturing Unit, Main O S Liquor Shop, At- Karapada, Ps- Chhatrapur, Dist- Ganjam
Name of the company/Organization	Jiru Ramamurty Reddy
Location of Project	At- Karapada, Ps- Chhatrapur, Dist- Ganjam
ToR Date	N/A
Name of the Consultant	N/A

**Proposal in brief:**

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

- (i) This is a proposal for Extension of validity EC for production of 3.822 KLD Mahua Flower Based Out Still Country Liquor Manufacturing Unit, Main O S Liquor Shop, At- Karapada, Ps- Chhatrapur, Dist- Ganjam
- (ii) The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. 7634/SEIAA dated 07.12.2019 and later EC extended for excise license period vide letter no. 1821/SEIAA dated 26.07.2021 in favour of Sri Jiru Ramamurty Reddy (Licensee) for production of 3.822 KLD Mahua Flower Based Out Still Country Liquor Manufacturing Unit, Main O S Liquor Shop, At- Karapada, Ps- Chhatrapur, Dist- Ganjam The excise licensee No. 12/2019/0044 issued by Superintendent of Excise, Berhampur is valid upto 31.03.2024
- (iii) The PP has submitted compliance of earlier EC conditions.
- (iv) Any deficiencies/omission have been noticed in the above documents- Nil

3. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on **28<sup>th</sup> & 30<sup>th</sup> June 2023** and the SEAC reiterates its earlier recommendation for revalidation of country liquor proposals as decided in its meeting held on **31.10.2019** and opined that revalidation of Environmental Clearance is not required for the unit as it is already operational unit. Further, the SEAC opined that fresh Environmental Clearance is also not required for the proposal as it is not shifting the unit to other location and / or going for higher production capacity. The SEAC recommended to return these proposals to SEIAA, Odisha with a request to communicate the proponents as above.

**Decision Of Authority: Approved**

1. After detailed deliberation the Authority **allowed extension of validity of EC** up to excise license period i.e. 31.03.2024 subject to conditions that the Project Proponent (lease holder) shall deposit Rs.50,000/-, with the respective District Environment Society for raising 100 plants of native species especially Mahua Plant (*Madhua Indica*) within 2 years in a suitable location or village common land adjoining to the unit.
2. The other stipulated terms and conditions of the original EC initially granted remains same subject to satisfactory compliance to all the stipulated terms and conditions of EC.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA

**Minutes of 130<sup>th</sup> Meeting of SEIAA, Odisha Held on 01.08.2023, 02.08.2023 & 03.08.2023**

<b>AGENDA No.130.16</b>	
Proposal No.	SIA/OR/MIN/407189/2022
Date of Application	25.01.2023
File No.	407189/312-MINB1/01-2023
Project Type	ToR
Category	B1
Project/Activity including Schedule No.	1(a)-Mining of Minerals
Name of the Project	Proposal for ToR for mining of sand from Suramani Sand Bed over an area of 12,450 acres or 5,038 Ha bearing Khata no. 232, Plot no. 659 and 1/1725 in village-Suramani, Tahasil- Bellaguntha, District-Ganjam of M/s. Aariz Construction Private Limited
Name of the company/Organization	Applicant: M/s. Aariz Construction Private Limited; Sri. Tausifa Tehreem(lessee).
Location of Project	Village- Suramani, Tahasil- Bellaguntha, District- Ganjam

**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 submitted for Terms of Reference (ToR) for mining of sand from Suramani Sand Bed over an area of 12,450 acres or 5,038 Ha bearing Khata no. 232, Plot no. 659 and 1/1725 in village- Suramani, Tahasil- Bellaguntha, District- Ganjam of M/s. Aariz Construction Private Limited.
- (ii) The mine area is a part of the Survey of India Toposheet No. E45A9 bounded by Latitude:19°48'35.62" N to 19°48'57.34" N and Longitude: 84°37'47.25" E to 84°37'54.87" E.
- (iii) The mining lease is an identified sairat source in the DSR. The Suramani Sand Bed sairat source will be leased out under the OMMC Rules,2016 by Tahasildar, Bellaguntha to the successful bidder(lessee) for a lease period of 5 years.
- (iv) Documents submitted: - Form-1, PFR Distance Certificate from Tahasildar, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, topo map etc.
- (v) Distance from nearest sanctuary/ESZ-Lakhari valley WLS-49.0km
- (vi) Method of mining-Manual, River- Barha River
- (vii) Distance from nearest road/river bridge-8.5km, village road-0.5 km
- (viii) Whether it is part of cluster -No
- (ix) Whether EC obtained earlier-Yes,compliance report submitted but production details not given.
- (x) Date of approval of mining plan-JDG, O/o Joint Director of Geology,SZ,Berhampur on 10.11.2022.
- (xi) Production capacity per annum-8000cum/annum(max.), depth-0.285meter, total production in 5 years period-40000 cum, Geological reserve-40630cum, depth-1.0meter and Mineable reserve-28070 cum, depth-1.0 meter.
- (xii) 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**
- (xiii) Project cost: The estimated cost of project is 50lakhs, EMP cost -Not given

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(xiv) Any deficiencies/omission have been noticed in the above documents-thickness of sand to be mined-0.285meter, water logging in lease area observed, PP has submitted proforma-2 in regard to violation. Lessee of earlier EC-Sri. Mohan Swain (EC-3083/SEIAA dated 05.06.2017)

**Whether SEAC recommended the proposal** – Yes, SEAC have already recommended the specific ToR for such proposals (<25 Ha.) in its meeting dated 17.11.2020 and have also recommended that the SEIAA will consider such proposals in its meeting for issue of ToR.

2. The proposal was placed in the 111<sup>th</sup> meeting of SEIAA held on 21<sup>st</sup>, 22<sup>nd</sup> & 23<sup>rd</sup> March, 2023 and the authority observed that the matter relates to the NGT case of O.A. 67/2020 (EZ) Mitra Barun Mahapatra Vs State of Odisha on Suramani & Banka Sand Bed, Bellaguntha Tahasil, Dist-Ganjam. As, per joint inspection report and recommendation of joint committee, the Hon'ble NGT Easter Zone, Kolkata had passed a order on 21.10.2021 to recover of Environmental Compensation amounting of Rs. 15,00,000/- (Rupees Fifteen Lakhs only) from Respondent No.10 and Rs.6,50,000/- (Rupees Six Lakhs Fifty Thousand only) from Respondent No.11.

The status of recovery of Environmental Compensation and item wise expenditure may be intimated by Tahasildar.

Now the PP has submitted the ADS raised by SEIAA for consideration of EC.

**Decision of Authority: Approved**

After detailed deliberation in the matter, the Authority decided to issue both standard and specific ToR under violation category for EIA & EMP along with Public Hearing.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA

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03.08.2023**



<b>AGENDA NO.130.17</b>	
Proposal No.	SIA/OR/IND2/422287/2023
Date of application	17.03.2023
File No.	422287/22-IND2/03-2023
Project Type	Proposal for EC
Category	B1
Project/Activity including Schedule No.	5(g) Distillery unit
Name of the Project	Proposal for grant of EC for Grain Based Distillery unit (100 KLPD) with Co-generating Power plant (3MW) Project to be set up over an area of 19.9 Acres (8.053 Ha) at Saptasajya, Dhenkanal, Odisha by M/s Indale Spirits Pvt. Ltd
Name of the company/Organization	Indale Spirits Private Limited Sri Akash Agarwal (Managing Director)
Location of Project	At-Saptasajya, Dhenkanal, Odisha by M/s Indale Spirits Pvt. Ltd
ToR Date	28.07.2022
Name of the Consultant	Sv Enviro Labs & Consultants

**Proposal in brief:**

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
  1. This is a proposal for Grain Based Distillery unit (100 KLPD) with Co-generating Power plant (3MW) Project to be set up over an area of 19.9 Acres (8.053 Ha) at Saptasajya, Dhenkanal, Odisha by M/s Indale Spirits Pvt. Ltd.
  2. The Plant area is a part of Survey of India Toposheet No. F45 O/4 bounded by Latitude 20° 35' 44.49" N to 20° 35' 56.30" N, 85° 33' 21.64" E to 85° 33' 34.56" E.
  3. Documents submitted: -Form-1, final EIA & EMP, PFR, DLC, CGWA certificate, checklist, DSR, Village sheet, topo map etc.
  4. Distance from nearest sanctuary/ESZ- Kapilash, WLS-12.56 km
  5. Whether the lease area coming in DLC report-No, as certified by DFO, Dhenkanal vide letter no. 5969 dated 20.08.2022
  6. Whether submitted scrutiny-Yes, of Rs. 500000/- vide e-Challan Ref. No. 334C99C688 dated 28.03.2022.
  7. Whether submitted KML file-Yes
  8. **Category:** As per the EIA Notification Ministry of Environment and Forests and Climate Change (MoEF & CC), Government of India, dated 14th September 2006 and its subsequent amendments and Gazette vide S.O. 1960 (E) Dated: 13.06.2019 "All the Non - molasses-based distilleries with production capacity less than or equal to 200 KLD falls under Category B1" of Schedule -5 (g)-Distilleries.
  9. **TOR details:** The Terms of Reference (TORs) was approved by SEIAA, Odisha vide Letter. No. 4964/SEIAA Dated: 28.07.2022.
  10. **Public hearing details:** Public hearing was conducted by the Odisha Pollution Control Board (OSPCB) on 02.11.2022 at Saptasajya village (near Banadurga Temple) under Dhenkanal Sadar of Dhenkanal District and public hearing proceeding were received from SPCB Odisha with No. 2415/IND-II-PH-1085 Dated: 29.12.2022. Issues raised during public hearing are employment generation, health care, road construction and maintenance, educational development, women empowerment programme, development of agriculture, drinking water supply, solar street lighting, green belt development and formation of village committee. Budget for time bound action plan to address issues raised in compliance with public hearing is 84.50 Lakhs.

11. Earlier CTE was granted by OSPCB vide letter no 1444 dated 03.02.2023.
12. The project site (Village Saptasajya Mouza) has not been found in the DLC report of Dhenkanal Tahasil of Dhenkanal District is cited vide letter no 5969 dated 20.08.2022.
13. No Objection Certificate (NOC) for ground water abstraction was granted by CGWA vide NOC No. CGWA/NOC/IND/ORIG/2022/1617 valid upto 11/08/2025.
14. **Location and connectivity:** The proposed plant will be in Khata No. 8/462 & Plot No. 1200/2586, Khata No. 8/470 & Plot No. 1200/2580 & 1200/2585, Khata No. 8/482 & Plot No. 1200/2583 and Khata No. 8/483, Plot No. 1200/2582, 8/473 & 1201/2581 of Saptasajya village, Dhenkanal Sadar Tehsil in Dhenkanal District, Odisha over an area of 19.90 Acres/8.05 Ha. The latitude of the area is 20° 35' 44.49" N to 20° 35' 56.30" N, 85° 33' 21.64" E to 85° 33' 34.56" E and located in toposheet number 73H/10. Nearest National Highway and State Highway is NH 55 - 5.5 km - NE and Saptasajya Road - 3.70 km - NE, respectively. Nearest Railway station is Dhenkanal Railway station - 9.30 km - NE. Nearest Airport is Bhubaneswar Airport at 46.65 km. Nearest habitation is Madyasahi Village at 0.65 km and Saptasajyaparah Village at 1.25 km. The distance of Kapilas wildlife sanctuary is 12.56 Km and ESZ is 11.26 Km from the plant boundary. Major drainage of the district is Brahmani River and there is no river located within 1 Km from the project site. The river Sapua is located at 6.5 Km from the project site. Nearest Reserve/Protected Forests are Saptasajya RF - 1.0 km - SW, Mayuri RF - 1.60 km - NE and Kanakarharaha RF - 2.35 km - NW. The project site and buffer zone is devoid of any wildlife sanctuary, Biosphere reserve/ corridors. It falls under Seismic Zone - III.
15. **Topography & Drainage:** The proposed plant is in Saptasajya village, Dhenkanal Sadar Tehsil in Dhenkanal District, Odisha over an area of 19.90 Acres/8.05 Ha. Highest RL of the area is 98 m above msl in the south- western part and the lowest is 92 m above msl in the north-eastern part of the ML area. The buffer zone of the study area is hilly and plain terrain with highest altitude of 591 mRL and lowest altitude of 35 mRL. The river Brahmani and its tributaries control the drainage of the district. The nearest river located within the buffer zone of the project site is Sapua river which is 6.5 km from the project site.
16. **Baseline study:** The ambient air quality monitoring was carried out in the study area in 8 sampling location during the period of March - May 2022.
  - a) **Ambient Air Quality:** During the study period, the concentration of PM10 in the project site varies from 45.3-59.3µg/m<sup>3</sup> and from 43.5-75.9 µg/m<sup>3</sup> in the nearby villages. The value of PM2.5 in the project site is 24.9- 32.6µg/m<sup>3</sup> and the average of PM2.5 varies from 27.2-37.1µg/m<sup>3</sup> in the surrounding villages. From the ambient air quality monitoring, it has been found that the concentrations of the particulate matter, SO<sub>2</sub>, NO<sub>x</sub>, are within the NAAQS standard as prescribed by CPCB.
  - b) **Surface water:** The pH of the sample water ranges from 7.2 -7.6, D.O ranges from 5.2-6.8 mg/l, BOD in nearby waterbody ranges from less than 2-2.8 mg/l, TDS ranges from 40-180 mg/l, total hardness varies from 24-164, nitrate value ranges from 0.8-1.9 mg/l, Fluoride content ranges from 0.3- 0.83 mg/l
  - c) **Ground water:** As Per the data it has been observed that the pH of the ground water varies from 6.5 To 7.15 mg/l, Chlorides Ranges From 12-60 Mg/L, Sulphates value found to be 5-80 mg/l, Fluoride Ranges from 0.33 - 0.85 mg/l, Hardness varies from 48-80 mg/l, Total dissolved solid 68-230 mg/l. The ground water has been analyzed as per IS 3025:PART05:2018 and found to be suitable for drinking purpose.
  - d) **Noise study:** The study area includes industrial and residential areas. The ambient noise levels were measured in 8 sampling locations. The noise level varies from 32.4 to 52.6 dB (A) during day time and 25.7 to 43.3 dB(A) during night time. The noise level remains within the prescribed standard.
  - e) **Soil quality:** pH of the soil varies from 5.2 to 6.8; Total Organic Carbon varies from 0.88 to 1.58 Kg/Ha; Available Phosphorous varies from 10.5 to 45.5 Kg/Ha; Available Nitrogen varies from 188 to 264 Kg/Ha; Available Potassium varies from 204 to 370 Kg/Ha

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17. **Raw materials used:** The major raw material for the unit will be broken rice, Rice husk and enzymes and transported by trucks. The raw material will be sourced from the local market. Enzyme is required for distillery unit. 21.12 TPH steam will be required.

S. No.	Description	Proposed
1.	Item of Manufacturing	Extra Neutral Alcohol/Ethanol
2.	Raw Material	Grain (Rice, maize etc...)
3.	Production Capacity	100.0 KLPD
4.	By products	
	Compressed CO <sub>2</sub>	62.0 TPD
	DWGS	95.0 TPD
	DDGS	41.0 TPD
	Co-generation power plant	3.0 MW

**Brief Description of Products and raw materials used in Process**

2.	Proposed Capacity	100 KLPD or 33000 KLPA Ethanol – 67.25 KLPD ENA – 24.75 KLPD			
3.	By Product/Co Product				
	Technical Alcohol	1700 KLPA			
	Compressed CO <sub>2</sub>	50.0 TPD			
	DDGS (10% moisture)	63.5 TPD			
	Cogeneration of power	3.00 MW			
5.	Raw Material Requirement Per Annum				
	Item	Rice	Rice Husk	Enzymes	Basic Chemical
	Quantity (MTPA)	78,441	54,908	32.3	-
	Unit	MTPA	MTPA	MTPA	-
	Unit Purchase Cost (Rs/MT)	19000	5000	600000	-
	Value (Estimated in Cr per Annum)	149.0	27.5	1.9	2.6

18. **Process Manufacturing and products:** The proposed project is for installation of 100 KLPD grain-based distillery project for manufacturing of Ethanol (67.25 KLPD), ENA (24.75 KLPD) and DDGS (63.5 MT/day) as by product. During ethanol fermentation, glucose and other sugars in the corn (or sugarcane or other crops) are converted into ethanol and carbon dioxide. Ethanol fermentation is not 100% selective with side products such as acetic acid and glycols. They are mostly removed during ethanol purification. Fermentation takes place in an aqueous solution. The power plant will be using the combustion technology. The basic steps involve fuel handling, boiler, turbo generator and power evacuation system. Proposed 1 x 3.0 MW co-generation plant would consist of high-pressure water tube steam boilers firing biomass such as bagasse, Rice husk, parali, etc. utilizing Travelling grate technology and one back pressure steam turbines of 1 X 3.0 MW capacity.

19. **List of Products:**

S. No.	Description	Proposed
1.	Item of Manufacturing	Extra Neutral Alcohol/Ethanol

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2.	Raw Material	Grain (Rice, maize etc...)
3.	Production Capacity	100.0 KLPD
4.	By products	
	Compressed CO <sub>2</sub>	62.0 TPD
	DWGS	95.0 TPD
	DDGS	41.0 TPD
	Co-generation power plant	3.0 MW

20. **Water requirement:** The total water requirement is (100% Ethanol -1863 KLD (Fresh water - 492 KLD & Recycled water - 1405 KLD); 100% ENA -2097 KLD (Fresh Water - 602 KLD & Recycled Water - 1495 KLD). The maximum water requirement will not exceed 2097 KLD and makeup water will not exceed 602 KLD. So, total water requirement for the project will be a maximum of 602 KLD which will be sourced from ground water and rainwater harvesting.
21. **Wastewater management:** The company will adopt "Zero Liquid Discharge" Scheme. The treated water will be reused in the process, make up water streams, green belt development, spraying in fuel & ash storage areas etc. The wastewater generated from the process will be treated through 900 KLD CPU and reutilise in the process. Spent wash will not be stored in the lagoons and compost yard. The spent wash generated will be treated in MEE followed by CPU and the treated water will be reused in the plant premises. The spent wash generation is within the range of 6 - 8 KL /KL of alcohol produced. The spent wash generated will be treated in MEE, followed by CPU and the treated water will be reused in the plant premises.
22. **STP:** The Domestic sewage will be treated in STP of 10 KLD and treated water will be used for gardening.
23. **Rainwater harvesting:** Proposal for rainwater harvesting structure over an area of 3752 sqm with a total storage capacity of 18000 cum. Further, 5 no. of reached sump up to 200 cum capacity will be concentrated for ground water recharge.

S. No	Description	Area (m <sup>2</sup> )	Runoff Co-efficient	Rainfall m/hr	Total Runoff (m <sup>3</sup> /hr)
1.	Roof Top (Concrete)	4284	0.8	0.1	342.7
2.	Roof Top (Corrugated)	18280	0.8	0.1	1462.4
3.	Road and Open space	20515	0.6	0.1	1230.9
4.	Green Area	27235	0.2	0.1	544.70
<b>Total</b>					<b>3580.7</b>

Total recharge time proposed is 15 min

No of recharge pits proposed - 5 no.'s with capacity 200 cu. m each

Total ground water recharge capacity is 4000 cu.m/ hr and Surface runoff available for recharge is 3556 Cu.m/hr

Further, there is the proposal for rain water harvesting structure over an area of 3752 Sq. m. with a total storage capacity of 18000 Cu. m. The rain water stored in the storage tank will be used in the process, dust suppression and green belt development.

24. Total quantity of DDGS generated will be 41 TPD which will be sold as cattle feed

25. **Solid Waste management:** Fly ash generated from the project will be 1.2 TPH and bottom ash will be 0.5 TPH (29.0 TPD). The Solid waste DWGS/DDGS will be stored in shed and will sold as cattle feed directly. The boiler ash generated will be used for brick manufacturing industries and low land filling.

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26. **Ash management:** The air pollution control system, for the new boiler furnace, will comprise of ash vessels, conveying pipes, ash silo, ash storage and ash disposal. This ash handling will be totally enclosed system. The ash handling system shall be designed to take care of 100% fuel burning. Ash collected from the bottom of furnace (bottom ash) and the ash collected in the air heater hoppers and ESP (air pollution control system) hoppers will be taken to an ash silo through a pneumatic conveying system. Ash silo will have the capacity of storage for 8 hours of ash. The ash from the silo will be unloaded through the ash conditioner and bagged as fertilizer. The fly ash and bottom ash can be used for brick manufacturing units.
27. **Power requirement:** The estimated power requirement for the proposed project is 3.0 MW. Initially the power will be sourced from the OSPDCL, and after the operation of co-generation power plant the power requirement will be met from captive source. It is proposed to install a 1 x 250 KVA DG set for power back up for the system.
28. **Fuel Requirement:** Coal/Rice Husk will be used as fuel for the 25.0 TPH boiler. The fuel requirements for 100 KLPD (100% ENA/Ethanol) production will be 6.83 TPH coal and 7.36 TPH rice husk with 100% boiler capacity. The steam requirement for the proposed project will be 21.12TPH will be sourced from proposed 25.0 TPH Boiler.
29. **Greenbelt:** Green belt will be developed over an area of 6.74 acres (33%) of the total plant area with plantation @ 2500 sapling per Ha. At present there is the proposal for development of green belt over an area of 6.74 acres (33%) of the total plant area i.e., 19.9 acres. There is the proposal for plantation of 7000 saplings for green belt development. An amount of Rs.10,00,000 has been allocated for development of greenbelt and annual expenses for green belt maintenance will be Rs. 2,00,000.00.

S. No	Year	Sapling Nos	Area to be Covered (Ac.)	Species Type	Location
1.	2022-23	2000	2.0	Palash, Teak, Sisoo, Kadam, Arjun, Neem, Mango, Siris, Ashoka, Saal, Jackfruit, Bamboo, Radhachuda, Mahaneem, Custard apple, Guava, Krushnachuda etc.,,	Raw material storage area, office Building, car & truck parking area, inside the plant boundary wall, near water reservoir, internal roads etc.,,
2.	2023-24	3000	2.73		
3.	2024-25	2000	2.0		
<b>Total</b>		<b>7000</b>	<b>6.73</b>		

An amount Rs. 15.0 Lakhs has been allocated for development of green belt and annual expenses for green belt maintenance will be Rs. 5.0 Lakhs

30. **Manpower Requirement:** Total number of manpower will be around 140 including skilled and unskilled labours (supervisory personnel 40 nos and non-supervisory personnel 100 persons). Unskilled and skilled are hired from in and around the nearby areas while skilled, technical experts are hired from outside. There will be projection of about 250 no.'s of additional persons ingress due to the project activity.
31. **Project cost:** Total cost of the project will be 102.0 Crores. The capital cost of environmental mitigation measures is estimated to be Rs. 19.75 Cores, and the estimated recurring cost of environmental mitigation measures for the proposed project has been estimated to be Rs. 2.21 Crores/Annum. The CSR commitment is 84.5 lakhs.

S. No.	Description	Capital Cost in Lakhs	Recurring Cost in Lakhs/Annum
1.	Air Pollution Pollution Control Equipment for 25 TPH Boiler (ESP & Stack height of 50.0 meters)	220.0	15.0



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	OCEMS	15.0	5.0
	Dust Suppression	--	3.0
2.	Water Pollution		
	Rain water harvesting pond along with collection pits	20.0	2.0
	CPU, MEE & RO	1500.0	120.0
3.	Noise Pollution		
	PPE (Ear Plugs, Ear muffs, Insulations, Barriers)	70.0	10.0
4.	DWGS Handling, DDGS Drying, Handling, Storage, weighing bagging etc...	60.0	8.0
5.	Environmental Monitoring & Management		
	Ambient Air, Stack, Noise, Soil, Water & Wastewater etc...	--	15.0
6.	Landscaping/Green Belt Development		
	Plantation	15.0	5.0
7.	Occupational Health & Safety		
	Annual health Check-up, OHC, Fire Fighting	25.0	8.0
8.	Setting of Environmental Laboratory	50.0	--
9.	Risk Mitigation and Safety Plan	--	10.0
10.	Environmental Management Department	--	10.0
11.	Implementation & Control of measures to minimize the impact due to transportation & traffic	--	10.0
	<b>Total</b>	<b>1970.00</b>	<b>220.00</b>

32. The Environment consultant M/s **SV Enviro Labs & Consultants, Visakhapatnam**, along with the proponent made a presentation on the proposal before the Committee on 12.04.2023.


33. The SEAC in its meeting held on dated **12-04-2023** decided to take the decision on the proposal after receipt of certain information/ documents from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

34. 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 10.05.2023 and after detailed discussion, SEAC recommended for grant of Environmental Clearance for the project valid for a period of 10 years with stipulated conditions in addition to the following conditions.

- (ii) The project proponent shall ensure implementation and adhering of all conditions and guidelines given in the notifications of MOEF&CC, Govt. of India dated 6<sup>th</sup> July 2018 and any other notifications relevant to the industry, to ensure Zero Liquid Discharge (ZLD) and safe quality monitoring of all products and safety in operation of the plant.
- (iii) The Project Proponent should install additional sump tanks, if required to arrest effluent due to any Force Major and monitor, treat and record effluent analysis on daily basis.
- (iv) The proponent shall create adequate testing facilities to monitor the process and quality of all products.
- (v) Quality of all products to be produced in the plant shall be monitored and tested for all batches on routine basis, by following standard procedures and norms before sent out of the plant and records of all analytical data to be maintained.
- (vi) The proponent shall get the products tested by outside certified agency for their safe use from time to time and all such records to be maintained.

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- (vii) The DDGS intended to be used for animal feed shall be tested for its safety by appropriate authority before use.
- (viii) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC

2. The proposal was placed in the 129<sup>th</sup> meeting of SEIAA held on 25<sup>th</sup> and 27<sup>th</sup> July, 2023. The Authority decided to defer the proposal for next meeting.

**Decision of Authority: Approved**

After detailed deliberation in the matter, the Authority decided to grant EC with the following additional conditions:

- (i) The PP is required to revise the water balance study so as to limit the fresh water requirement to 3.5KL/KL of production including installation of air-cooled condenser & rain water harvesting.

APPROVED BY

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA

**AGENDA NO.130.18**

Proposal No.	SIA/OR/INFRA2/411058/2022
Date of application	30.06.2023
File No.	411058/506-INFRA2/01-2023
Project Type	Fresh EC proposal
Category	B
Project/Activity including Schedule No.	8(a) Building and construction
Name of the Project	Proposal for environmental clearance of proposed commercial cum residential building of M/s. Mahadev Griha Nirman Pvt. Ltd located at Plot no. 458, 454, 460, 459, 455 / 826 and 455/796, Khata No. 170/168, 170/156, 170/214,170/215 over a built-up area <b>47283.66 sqm</b> in Mouza-Padmalava Nagar, Tehsil-Baranga, Ps-Cuttack Sadar 16, Dist-Cuttack of Sri Ravi Kumar Moda.
Name of the company/Organization	Mahadev Griha Nirman Private Limited
Location of Project	Odisha

**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 commercial cum residential building of M/s. Mahadev Griha Nirman Pvt. Ltd located at Plot no. 458, 454, 460, 459, 455 / 826 and 455/796, Khata No. 170/168, 170/156, 170/214,170/215 over a built-up area 47283.66 sqm in Mouza-Padmalava Nagar, Tehsil-Baranga, Ps-Cuttack Sadar 16, Dist. - Cuttack of Sri Ravi Kumar Moda.
2. **Category:** The project requires prior Environmental Clearance under the provisions of EIA Notification, 2006 and subsequent amendment and falls under Category B of activity 8(a)-Building & Construction projects.
3. **Project details:** Project site is spread on area of 11331.11 sq.m (1.133 ha. /2.80 acre). Project involves development of commercial cum residential building with the allied facilities like, club house, shops, waste management system, storm water management system water supply system, sewerage system, firefighting management, adequate parking facility and green area. Built-up area of project is approx.47283.66 sq.m.
4. **Location and Connectivity:** The Project involves development of proposed commercial cum residential building located at Plot no. 458,454,460,459,455/826 and 455/796, Khata No. 170/168, 170/156, 170/214,170/215 in Mouza-Padmalava Nagar, Tehsil-Baranga, PS-Cuttack Sadar 16, Cuttack, Orissa. The Geographical coordinates are 20°21'12.7"N and 85°46'17.4"E and fall within Toposheet no. F45T15. The Project site comes under Cuttack Development Authority and not located within ESZ, ESA and CRZ area. Site is flat land with average elevation of 39.92 m AMSL. Project site is well connected with Banki-Cuttack Road. Site connects to NH-16 which is at 7.52 km towards E direction and to SH 60 at 12.95 km in NE direction. Nearest Railway station is Bhubaneswar New junction which is at 8.08 km away in S direction. Nearest Airport is Biju Patnaik International Airport at 22.22 km in S. Nearest river is Kathajodi River at 0.74 km. N. Nearest forest is Chudang Garh forest at 1.48. S and nearest habitation is Sandhapur is at 0.40 km, SW.

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5. **Land area details:** The total plot area of the project site is 11331.11 sq.m (1.133 ha./2.80 acres). Project involves development of 257 nos. of residential apartments. Built-up area of project after development will be approx. 47283.66 sqm

**Table: Area details**

Sl. NO.	DESCRIPTION	Total (SQ M)
i)	Plot Area	11331.11
ii)	Road effected Area	836.99
iii)	Net Plot Area	10494.12
iv)	Proposed Ground Coverage (29.75 % of total plot area)	3371.06
v)	FAR area (@3.19)	36099.9
vi)	NON-FAR area	11092.18
vii)	<b>Built-up Area</b>	<b>47283.66</b>
viii)	Green Area (@ 1 tree for 80 sqm of plot Plot area)	143 nos
ix)	Open Parking area (@ 8 % of plot Area)	825 sqm
x)	Paved Area (@ 10 % of plot Area)	1133.11
xi)	Open/Amenities (18.9 % of the plot area)	Landscape /green area: 995 sqm
xii)		Podium area: 988 sqm
xiii)		Total: 1983 sqm
xiv)	Height	BLOCK A, B, C : 44.95 mtr BLOCK D: 30.90 mtr CLUB HOUSE: 14.95 mtr
xv)	No of Dwelling Units	257

6. **Total Population:** Population estimated at the site is 1331 which includes residential, commercial, and floating population.
7. **Water requirement:** As per the revised water balance submitted by the Project Proponent in their ADS dated 24.04.2023, Water requirement is 140KLD as per the given table. Revised total water requirement is 140KLD and 38KLD in Non Monsoon period and 51KLD in Monsoon period will be discharged to drain.

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
<b>Domestic</b>					
Residents	1157	100	116	82	34
Staff	58	45	3	0.9	2.1
Visitors	116	15	2	1.4	0.6
<b>Total Domestic Water Demand</b>			<b>121</b>	<b>84</b>	<b>37</b>
Landscape	2136.78sq.m	6 ltr/sqm	13	-	13
Fire Fighting	-	-	1	-	1
DG	680 KVA	0.9	5	-	5
	(2*250KVA +1*180KVA)	1kVA/hr			
<b>Total</b>		-	<b>140</b>	<b>84</b>	<b>56</b>



8. **Previous water Balance given in presentation** - Source of water during operation phase will be ground water. Permission will be obtained from concerned authority prior extraction of ground water. Application for the same has been submitted via application no. 21-44571/OR/INF/2022. Total water requirement during operation phase is 171 KLD out of which domestic water requirement is 161 and freshwater requirement is 111 KLD as shown in table.

Category	Population/Area (sq m)/Capacity	Standard (L/PCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
<b>Domestic</b>					
Residents	1157	135	156	109	47
Staff	58	45	3	0.9	2.1
Visitors	116	15	2	1.4	0.6
<b>Total Domestic Water Demand</b>			<b>161</b>	<b>111</b>	<b>50</b>
Landscap	995sq.m	3 ltr/sqm	5	-	5
Fire Fighting	-	-	1	-	1
DG cooling	680 KVA (2*250KVA +1*180KVA)	0.9 l/KVA/h	4	-	4
<b>Total</b>			<b>171</b>	<b>111</b>	<b>60</b>

9. **Sewage generation:** Sewage generation from the site is expected to be 139 KLD which will be treated in STP of capacity 200 KLD proposed to be constructed at the site. Treated water from the STP will be used for flushing, firefighting, DG cooling and horticulture purpose.
10. **Power requirement:** Maximum power demand for the project during operation phase is estimated to be 1800 KVA. Source of power will be TPCODL. DG sets of total 680 KVA (2\*250KVA +1\*180KVA) will be provided as power back-up during power failure. The height of the DG Stacks will be 3-6 meter above building height. Provision of Solar power for lighting and water heating is there and generation of Solar Power as per the table given below.

Selection of SOLAR SYSTEM:			
a	Total Connected Load in kW		1872 kW
b	Solar Power Required in kW @ 5% of the Connected Load		93.6 kW
c	Solar Power In kW to be generated by Roof Top Solar Panels		94 kW
d	No. of Solar panel		100 Nos

**SUGGESTED SOLAR SYSTEM :** 100 Nos. of Solar Panels suitable for 94 KW LOAD  
**AREA REQUIRED :** 2.4 Sq.mtr Per Panel

11. **Rainwater harvesting:** Rainwater harvesting pits are being proposed for artificial recharge of roof top rainwater within the project premises. Recharge pits will be filled with small pebbles or brick jelly or river sand and bore a well up to deep aquifer with a perforated pipe in permeable layer. As per norms for 100 sqm roof 6 cum volume rainwater harvesting pit structure to be provided. For 3360 sqm roof area, volume of rainwater harvesting structure is 202 cum. Considering 13 nos of rainwater harvesting structure each rainwater harvesting structure will have de-silting tank and recharge shaft; volume of each de-silting tank is 1.2 cum and volume each Rainwater harvesting pit is 15.6 cum. Total no of rainwater harvesting structure is 13 nos.
12. **Parking details:** Parking area required is 9272.59 sqm and parking area provided is 9289.99 sq.m. Adequate parking will be provided to accommodate the expected vehicles during operation phase of the project in line with the requirement of Local Building by Laws.

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LOCATION	SINGLE 4 WHEELER /CAR PARKING	DOUBLE /DEPENDENT 4 WHEELER /CAR PARKING	2 WHEELER/ BIKE PARKING	HANDICAPED PARKING	TYPE OF PARKING
BASMENT BLOCK A	11 NOS	0 NOS	51 NOS		COVERED PARKING
STLT 1 BLOCK B & C	87 NOS	41 NOS	45 NOS	7 NOS	COVERED PARKING
STLT 2 BLOCK B & C	101 NOS	17 NOS	75 NOS		COVERED PARKING
STLT 1 BLOCK D	0 NOS	16 NOS	28 NOS		2 STACK MECHANICAL COVERED PARKING
VISITORS PARKING NEAR TEMPLE	101 NOS	0 NOS	15 NOS		SURFACE PARKING
VISITORS PARKING NEAR CLUB HOUSE	6 NOS	0 NOS	17 NOS		SURFACE PARKING
FIRE TRUCK	1 NOS	0 NOS	0 NOS		SURFACE PARKING
AMBULANCE	1 NOS	0 NOS	0 NOS		SURFACE PARKING
217 NOS. OF SINGLE 4 WHEELER CAR PARKING 58 NOS. OF DEPENDENT / DOUBLE 4 WHEELER /CAR PARKING 36 NOS OF 2 STACK MECHANICAL CAR PARKING 2 NOS OF HANDICAPED 4 WHEELER /CAR PARKING 1 NO OF FIRE TRUCK PARKING 1 NO OF AMBULANCE PARKING 253 NOS OF 2 WHEELER /BIKE PARKING <b>GRAND TOTAL 291 NOS OF 4 WHEELER /CAR PARKING</b>					

13. **Traffic study:** Parking space has been provided in the basement, surface, and silt levels parking and the area given to parking is adequate for the proposed 257 units/flats. Further, 7.5-meter-wide roads are proposed in the plan which would not pose any mobility issue if provided. The present 2-lane road needs to be widened to 4-lane for accommodating the normal growth of traffic. The normal growth of traffic is so high that LOS will go beyond LOS C after 10 years without any project. Therefore, the road needs to be widened to 4-lane divided for maintaining LOS level at B.
14. **Firefighting:** The fire protection system for the building is to be designed as per the provisions of National Building Code - 2005 and the directions of local fire service authority. In addition to above, the fire extinguisher system is to be design in accordance with IS: 2190. Fire-fighting facilities provided at the site includes water sprinklers, UG and OH fire tanks, automatic fire alarms, manual call points, fire hooters, fire staircase, fire lifts, signage, smoke detectors, refuge area, DG sets compartmentalization and fireproof electrical installations.
15. **Greenbelt:** As per the revised greenbelt submitted by the Project Proponent in their ADS dated 24.04.2023, Total green area/open area - 2136.78sqm (20.36% of total plot area).
16. **Previous Greenbelt as mentioned in presentation** - Green belt will be developed over an area of 1983 Sq.m by planting 152 nos. of the local species like Cadamba, Cassia, Jacranda, Bauhina, etc. Landscape /green area : 995 sqm out of which {Plantation (Green belt area )Area: 214.5 sqm (1.89.% of plot area) and Grass Lawn Area: 780.5 Sq.m (6.89 % of plot area).} Podium Green area: 988 Sq.m
17. **Solid waste generation:** During operation phase, waste comprise of municipal waste. It is estimated that approx. 612 kg per day of waste is to be generated from the project site. STP sludge expected to generate is approximately 14 kg/day.

S. No	Description	Occupancy/ Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non-Recyclable(kg/day)
i)	Residents	1157	0.5	579	463	116
ii)	Staff	58	0.25	15	12	3
iii)	Visitors	116	0.15	17	14	3

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iv)	Landscape waste	0.22 acres	0.2 kg/acres	1	-	1
v)	<b>Domestic Municipal waste generated</b>			<b>612</b>	<b>290</b>	<b>72</b>
vi)	STP	200 KLD	--	14	6	2
<b>Total Waste Generated</b>				<b>626</b>	<b>296</b>	<b>74</b>

18. **Project cost:** Total estimated cost of the project is INR 91.44 Crores. Environment management cost will include 42.1 lakhs (Capital) and 14.5 akhs (recurring) during operation phase.

19. **Environment Consultant:** The Environment consultant M/s P and M Solution., Noida (Uttar Pradesh) along with the proponent made a presentation on the proposal before the Committee on 14.02.2023.

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

Sl. No	Information Sought by SEAC	Compliance furnished by the	Views of SEAC
e)	NOC/ permission from Water Resources Dept., Govt. of Odisha for discharge of treated water to nearby nallah.	On enquiry with Prachi division of WRD, they said this case does come under their jurisdiction and directed us to Cuttack drainage division. On enquiry they too said that these areas is not covered, further we asked the RI/Local Amina of barrage tahasil office, he said that this is a local area development initiated by the <del>Department</del>	NOC from Ramadaspur Gram Panchayat have no objection for construction of Project proponent own drainage system connecting to public drain for disposal of storm water drainage and sewerage to the public drain.
f)	Revised water balance.	Report enclosed Enclosure 02	Revised total water requirement is 140KLD and 38KLD will be discharged to drain in Non-Monsoon period
g)	Proposed green belt area is 10% of total built up area. Proposal to increase the peripheral greenbelt area minimum to 20% of total plot area as per norms	Revised drawing attached with compliance Enclosure 03	Enclosure is attached as annexure III
h)	Detailed break-up of solar power to be generated, consumed, including capacity of PV cell capacity, connected devices and the percentage of solar energy added total power demand.	Power breaks up given by our consultant M/S unit Bangalore, Enclosure 04	Detailed Power break up of solar power had not submitted.

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
i)	Copy of structural stability certificate from appropriate authority.	Copy of the Stability certificate attached Enclosure- 05	Submitted
j)	Certificate from the concerned DFO regarding distance of proposed project from Chandaka Dampara Wildlife Sanctuary or any other nearby Sanctuary.	The Concerned DFO has already given the certificate Enclosure 06	DFO Chandaka Wildlife division has certified that the mouza Padmalavanagar is not coming within ESZ of Chandaka Dampara Wildlife Sanctuary. Exact distance of proposed project from ESZ is not submitted.
k)	Copy of CDA building plan approval letter.	The CDA building Plan approval letter is attached	Enclosure is attached as annexure VII.

22. The proposed site was visited by the sub-committee of SEAC on 29.04.2023. Following are the observations of the sub-committee:

- PP was present along with other team members. It was observed that the site is adjacent to the main road.
- The site was clean excepting a small outhouse, which PP informed is temporary for worker and will be demolished once construction is over.
- The road side has no drain at present but CDA has taken required fee for developing the same later. Till then the PP informed to connect the excess treated water to the nearest Nalla (about 500 mts away) for which they have taken NOC from Panchayat. In this regard PP needs to take permission for constructing drain at one side of the road till the Nalla, from PWD department. Both NOC from Panchayat and PWD to be kept as conditions in the EC.
- Copy of Revenue map showing the drain/Nalla to be provided.
- No trees are there, so green belt of minimum 20% to be developed.
- Documents asked during presentation needs to be submitted.

23. Considering the information furnished and the presentation made by the consultant, **M/s P and M Solution., Noida (Uttar Pradesh)** along with the project proponent, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure-C** in addition to the following specific conditions.

- The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.
- The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain



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- passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.
- iii) The proponent shall use solar energy at-least to the tune of 5% of total power requirement as proposed.
  - iv) The proponent shall obtain permission from concerned Fire Safety Authority.
  - v) Trees located within the project area shall be transplanted to alongside the boundary green development area.
  - vi) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.
  - vii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc as per need to reduce water discharge to drain. This shall be verified in future compliance report.
  - viii) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

The proposal was placed in the 128<sup>th</sup> meeting of SEIAA held on 20.07.2023. After detailed deliberation, the Authority decided that the project proponent is required to submit the decision of water resource department whether it is possible to allow canal/river water for use by the residence in the proposed project.

Now the PP has submitted the necessary ADS raised by SEIAA for consideration of EC.

Whether SEAC recommended the proposal – N/A

**Decision Of Authority: ADS**

The Authority observed that the PP has not submitted the response of Water Resource Department for use of canal/river water for the project as sought by SEIAA vide letter dated 26.07.2023. The PP is required to submit the compliance failing which the EC application shall be rejected.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA

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03.08.2023**



<b>AGENDA NO.130.19</b>	
Proposal No.	SIA/OR/MIN/296298/2023
Date of application	01.08.2023
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 Palada Sand Quarry over an area of 12.355 acres or 5.00 hectares in village Palada under Nischintakoili Tahasil in Cuttack District, Odisha
Name of the company/Organization	Sri Santosh Kumar Mohapatra, S/o- Sri Damodar Mohapatra, At/Po-Muguria, PS-Kishorenagar, Dist- Cuttack
Location of Project	Odisha

**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 Transfer of EC of Palada Sand Quarry over an area of 12.355 acres or 5.00 hectares in village Palada under Nischintakoili Tahasil in Cuttack District, Odisha.
  - (iii) Documents submitted: Application in Form-7, earlier EC copy, Tahasildar forwarding letter, Status of quarry and scrutiny of Rs. 2000/- vide e-Challan Ref. No. 35934FDE8A dated 04.01.2023
  - (iv) The EC of Palada Sand Quarry over an area of 12.355 acres or 5.00 hectares in village Palada under Nischintakoili Tahasil in Cuttack District, Odisha was in favour of Tahasildar, Nischintakoili vide SEIAA letter no. 9933/SEIAA dated 07.08.2020,
  - (v) Present status of quarry- operating conditions
  - (vi) Whether submitted KML file-Yes
  - (vii) EC granted for extraction 2000 cum of sand in the 1<sup>st</sup> year and the PP has extracted 1950 cum sand in the 1<sup>st</sup> year.
  - (viii) The PP has submitted the total project cost and turnover through Chartered Accountants (CA) bearing UDIN 232263377BGTTNO2640 as the quarry operated without transfer of EC and it is treated as violation case. Accordingly, submitted total project cost of **Rs.19,25,972/-** and total turnover of **Rs. 11,70,000/-** for production 1950 cum of sand as certified by Tahasildar, Nischintakoili.
  - (ix) Now, the project proponent applied proposal for transfer of EC from the name Tahasildar, Nischintakoili to Sri Santosh Mohapatra, (highest bidder/lessee) with attaching Tahasildar forwarding letter vide letter no. Nil dated 14.03.2023
  - (x) Any deficiencies/omission have been noticed in the above documents- Nil.

Whether SEAC recommended the proposal – N/A

**Decision of Authority: Approved**

- (i) After detailed discussion, the Authority decided to allow transfer of EC of the said proposal as per the MoEF& CC, Govt. of India O.M. no. F. No. 22-21/2020-IA.III dated 07.07.2021 regarding Standard Operating Procedure (SOP) for identification and handling of violation cases under EIA Notification 2006 and in accordance with the order of Hon'ble National Green Tribunal subject to remittance of total penalty amount of Rs 22,185/- (i.e. 1% of the total project

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cost of Rs.19,25,972/- + 0.25% of the total turnover during violation period of Rs. 11,70,000/-) to State Pollution Control Board (SPCB), Odisha.

- (ii) Transfer of EC shall be issued on submission of proof regarding remittance of the penalty amount. No further reference to SEIAA, Odisha meeting is required.
- (iii) **Transfer of EC is allowed** for extraction **500 cum** (i.e., 25% of the 1<sup>st</sup> year production quantity 2000 cum allowed in the EC) of sand material for 2<sup>nd</sup> year lease period. PP shall submit Annual rate of replenishment study (ARRS) report by 31<sup>st</sup> March 2025 through ORSAC empanel agency.

**APPROVED BY**

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA

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<b>AGENDA NO.130.20</b>	
Proposal No.	SLA/OR/MIN/302558/2023
Date of application	26.07.2023
Project Type	Transfer of EC
Category	B2
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for Transfer of EC of Srisundarpur River Sand Quarry over an area of 12.20 acres or 4.93 Ha at village-Srisundarpur, Tahasil-Kantapada, Dist-Cuttack
Name of the company/Organization	Sri Pujalin Rout W/o-Pinak Rout At-Mundamihan, Po-Brahmanigaon, Ps- Barang, Dist-Cuttack
Location of Project	Odisha

**Proposal in brief:**

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
  - (i) This is a proposal Transfer of EC of Srisundarpur River Sand Quarry over an area of 12.20 acres or 4.93 Ha at village-Srisundarpur, Tahasil-Kantapada, Dist-Cuttack.
  - (ii) Documents submitted: Application in Form-7, earlier EC copy, Tahasildar forwarding letter, Status of quarry and scrutiny of Rs. 2000/- vide e-Challan Ref. No. 35B83C547B dated 24.07.2023
  - (iii) The EC of Srisundarpur River Sand Quarry over an area of 12.20 acres or 4.93 Ha at village-Srisundarpur, Tahasil-Kantapada, Dist-Cuttack was in favour of Tahasildar, Kantapada vide SEIAA letter no. 2044/SEIAA dated 05.08.2021
  - (iv) Present status of quarry- non-operating condition
  - (v) Whether submitted KML file-Yes
  - (vi) Now, the project proponent applied proposal for transfer of EC from the name Tahasildar, Kantapada to Sri Pujalin Rout, (highest bidder/lessee) with attaching Tahasildar forwarding letter vide letter no. 1769 dated 14.07.2023
  - (vii) Any deficiencies/omission have been noticed in the above documents- Nil.

Whether SEAC recommended the proposal - N/A

**Decision of Authority: - Approved**

**The transfer of EC is allowed** subject to submission of full compliance report of the stipulated conditions of EC issued earlier with the following additional conditions within 6(six) months:

- a. **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 coordinates by any empanelled agency of ORSAC.
- b. **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.seiaa@odisha.gov.in](mailto:info.seiaa@odisha.gov.in)
- c. **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.

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- d. **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.2,50,000/- with the respective District Environment Society for raising 500 plants of native species within 2 years in a suitable location adjoining to quarry.
- e. **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.

The above compliance shall be uploaded/submitted by PP in the Parivesh Portal of MoEF& CC, and also a copy of the compliance report shall be email to <mailto:info.seiaaodisha@gmail.com> within 06 (six) months from date of issue of transfer of EC falling which the EC stands automatically revoked.

APPROVED BY

  
Member Secretary, SEIAA

  
Member, SEIAA

  
Chairman, SEIAA