

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 29TH NOVEMBER, 2022**

The SEAC met on 29th November, 2022 at 10:30 AM in the Conference Hall of Odisha State Pollution Control Board, Bhubaneswar under the Chairmanship of Sri Sashi Paul. The following members were present in the meeting.

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|------------------------------|---|---------------------|
| 1. Sri Sashi Paul | - | Chairman |
| 2. Dr. K. Murugesan | - | Member Secretary |
| 3. Dr. Rabi Narayan Patra | - | Member (through VC) |
| 4. Dr. Chittaranjan Panda | - | Member |
| 5. Prof. (Dr.) H.B. Sahu | - | Member (through VC) |
| 6. Prof. (Dr.) Abanti Sahoo | - | Member (through VC) |
| 7. Dr. Ashok Kumar Sahu | - | Member |
| 8. Er. Fakir Mohan Panigrahi | - | Member |
| 9. Prof. (Dr.) B.K. Satpathy | - | Member |
| 10. Dr. K.C.S Panigrahi | - | Member |
| 11. Shri Jayant Kumar Das | - | Member |

Draft proceedings of the meeting was finalized by the members through e-mail and final proceedings of the meeting was confirmed by the members through e-mail. The agenda-wise proceedings and recommendations of the committee are detailed below.

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S ESSEN RG LLP FOR PROPOSED (2B+S+19) & (2B+S+21) RESIDENTIAL APARTMENT BUILDING OVER A BUILT-UP AREA 64176.88 SQM LOCATED AT BADARAGHUNATHPUR, BHUBANESWAR, DIST-KHURDA, ODISHA OF SRI PRADEEP THACKER- EC.

1. This proposal is for environmental clearance of M/s Essen RG LLP for proposed (2B+S+19) & (2B+S+21) Residential apartment building over a built-up area 64176.88 sqm. located at Badaraghunathpur, Bhubaneswar, Dist- Khurda, Odisha of Sri Pradeep Thacker.
2. **Category:** This proposal falls under Category B, 8(a) – Building and Construction projects in the schedule of EIA Notification 2006 and its subsequent amendments.
3. **Location and Connectivity:** The Proposed Residential Apartment Building (2B+S+19) & (2B+S+21) is on Khata No.- 208/104, 208/112, 270/1471, 171, 270/1448 & 208/111 and Plot No: 617/820, 631/816, 617/826, 617/2305, 617, 631/2305, 617/2302, 617/825 & 617/2899 of Village - Badaraghunathpur, Bhubaneswar. The Geographical co-ordinates of the project site are Latitude - 20°13'38.09" N & Longitude - 85°43'59.79" E. The project site is well connected with National Highway NH-5. The nearest railway station is Bhubaneswar Railway station at a distance of approx. 12.3km in Northeast direction. The nearest airport is Biju Patnaik Airport at approx. 7.2km in North direction from project site. C V Raman College of Engineering at distance of 0.5km from project site. The nearest Nalla is Municipality Drain which is passing near to the project site. The project site comes under seismic zone-III.
4. The project site is coming under Bhubaneswar Municipal Corporation development area.

5. **Building Area details:** The total plot area of the proposed building is 9813.25 sqm. Total Residential FAR area is 48119.14 sqm and total built up area of the building is 64176.88 sqm (including parking).

Particular	Proposed
Plot Area	9813.25 sqm
Ground Coverage	3761.30 Sqm (38.3 % of Plot Area)
Total Built up Area	64176.88 Sqm
Total FAR Area	48119.14 Sqm
FAR	4.90
Maximum Height	76.15 mtr
Road & Paved Area	4040.23 Sqm
Basement Parking-1	8329.69 sqm
Basement Parking-2	4399.85 sqm
Stilt Parking	2946.04 sqm
Total Parking Area	15675.58 Sqm

6. **Water requirement:** Fresh makeup water of 140KLD (135KLD for residential population and 4.5KLD for floating population) will be required for the project which will be sourced from Ground water.
7. **Waste water generation:** The project will generate approx. 175KLD of waste water. The waste water will be treated in the STP of capacity of 200KLD which will be provided within the complex, out of which 166.4KLD will be recycled i.e., for flushing (70.0KLD), landscaping (8.5KLD), Dust suppression (11.5KLD) & 76.4KLD will be discharged to drain in Non monsoon period and 96.4KLD will be discharged to drain in Monsoon period.
8. **Rainwater harvesting Pits** has been catered to and designed as per the guidelines of CGWA. Total Rain Water Recharge pits are being proposed is 20 nos. Peak hourly rainfall has been considered as 150 mm/hr. The recharge pit of dimension 3.0 m dia. and 2 m height will be constructed for recharging the water. At the bottom of the recharge well, a filter media is provided to avoid choking of the recharge bore.
9. **Power requirement:** The daily power requirement for the proposed complex has been preliminarily assessed as 1840.4KW source from TPCODL of Odisha State Electricity Board. To meet emergency power requirements during the grid failure, there is provision of 1 no. of DG sets having capacity of 500 KVA as power back up. The stack height of DG set is 80.62m.
10. **Renewable Energy/ solar Usage:** 40 Nos. of Solar Street Light poles of 3.04KW capacities are directly connected with Solar Panel. 96.6 KW Solar energy generated from 70 nos. of PV Panel is directly connected with electric grid. Thus, 5.4% of total power is contributed from solar energy.
11. **Solid waste generation and management:** From the residential complex, solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/capita/day, which will be about $1500 \times 0.45 = 675$ kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in

separate coloured bins. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste. Waste generation from floating people will be $150 \times 0.1 = 15$ kg/day.

12. **Greenbelt:** 20.5 % of Plot area which is 2011.72sqm is proposed for the green belt area. Green belt will be developed all around the housing project. About 2-3m wide all around the proposed project will be provided for development of trees in two rows. The plantation matrix adopted for the green belt development includes pit of 0.3m x 0.3m size with a spacing of 2m x 2m. Multi-layered plantation comprising of medium height trees (7m to 10m) and shrubs (5m height) are proposed for the green belt.
13. **Parking details:** Total proposed Parking Area provided is 15675.58 m² or 503 ECS. As per Odisha bye-laws, parking area required for residential is equal to 30 % of residential built-up area which is 14435.74 m².
14. **Firefighting details:** Firefighting system comprises of hose reel, extinguisher, manual operated electric fire alarm system, underground static tank, terrace tank, terrace pump, maintenance of the systems should be carried out regularly to ensure proper functioning during emergencies. Safe evacuation route for building residents should be clearly marked to ensure safety of residents during any emergency and alarming/siren system will be adopted
15. **Project cost:** The total cost of the project is ₹ 73 crores and cost of Environment management plan is ₹ 165 lakhs.
16. **Environment Consultancy:** The proponent along with the consultant **M/s Centre for Envotech and Management Consultancy Pvt. Ltd. Bhubaneswar** made a detailed presentation before the SEAC.

Considering the information furnished and the presentation made by the consultant, **Centre for Envotech and Management Consultancy Pvt. Ltd, Bhubaneswar** along with the project proponent, the SEAC decided to take decision on the proposal after receipt of the following from the proponent followed by site visit of the Sub-Committee of SEAC:

- a) Site is adjacent to NH. Activity to be carried out towards NH and safety zone distance to be maintained from NH and status of permission from NHAI for construction of Building adjacent to NH.
- b) Status of NoC from National Highway Authority of India for drainage connection.
- c) Status of permission from NHAI for access road to National Highway.
- d) Status of permission from Airport Authority of India for building height.
- e) Detailed calculation of parking along with layout for floating population.
- f) Traffic study report to be vetted by reputed institute.
- g) Provision for more utilization of wastewater through car washing, increase in greenbelt etc. Reduce the quantity of treated water discharged to drain.
- h) Since the plot is in low-lying area, measures should be adopted for non mixing of sewerage water with rain water due to blockage of pits.
- i) Land documents with kissam of land.
- j) Copy of Water and Structural Audit Reports.

- k) Copy of proposed Fire Safety Plan.
- l) Exact distance of the project from boundary of Chandaka Wildlife Sanctuary and certificate from concerned DFO that the project is not coming within the Eco-Sensitive Zone of Chandaka Wildlife Sanctuary.
- m) Certificate from concerned DFO that construction activity for the project can be allowed as per recent order of the Hon'ble Supreme Court.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S MAYFAIR HOTELS & RESORT LIMITED FOR PROPOSED LB+UB+G+5 STORIED (BLOCK-A) AND B+G+4 STORIED (BLOCK-B) HOTEL AND CONVENTION CENTRE “MAYFAIR SANCTUARY” OVER AN BUILT-UP AREA 94027.36SQM LOCATED AT CHANDRASEKHARPUR, BHUBANESWAR, ODISHA OF SRI BIJU JOHN- EC

1. This proposal is for environmental clearance of M/s Mayfair hotels & resort Ltd. for proposed LB+UB+G+5 storied (Block-A) and B+G+4 storied (Block-B) Hotel and Convention centre “Mayfair sanctuary” over a built-up area 94027.36sqm located at Chandrasekharpur, Bhubaneswar, Odisha of Sri Biju John.
2. **Category:** This proposal falls under Category B, 8(a) – Building and Construction projects in the schedule of EIA Notification 2006 and its subsequent amendments.
3. **Location and connectivity:** The proposed Hotel & Convention Centre project site is located at Plot No. 3(P), 4(P) in Khata No. 619 (GAD), Mouza - Chandrasekharpur, Bhubaneswar, Dist - Khurda, Odisha. The location of the project area can be seen in Survey of India Open Series No. F45N1 & F45N5. The Geographical co-ordinates of the project site are Latitude - 20° 19' 59.63" N & Longitude - 85° 47' 53.81" E. The project site is well connected with Nandankanan Road and National Highway-16 which is at a distance of 5.0km. The nearest railway station is Bhubaneswar Railway Station at a distance of 8.9km. The nearest Airport is Biju Patnaik International Airport, Bhubaneswar, which is approximately 9.7km from the site.
4. **Building Area Details:** The total plot area of the proposed building is 48562.28sqm. Total Residential FAR area is 71099.68sqm and total built up area of the building is 94027.36sqm.

Particular	Proposed	Permissible
Project Name	Proposed LB+UB+G+5 Storied (Block-A) and B+G+4 Storied (Block-B) Hotel and Convention Centre “Mayfair Sanctuary”	
Plot Area	48562.28 sqm	--
Ground Coverage	19410.34 sqm (39.97 %)	--
Total Built up Area	94027.36 sqm	--
Total FAR Area	71099.68 sqm	--
FAR	1.46	2.0
Maximum Height	23.70mtr (Block-A) 20.65mtr (Block-B)	--
Road & Paved Area	18711.05 sqm	--
Parking Area	31874.68 sqm	24683.90 sqm
Estimated Population- Hotel	700nos.	

Estimated Population- Floating/visitors	70nos.	
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5. **Water requirement:** Fresh makeup water of 350 KLD will be required for the hotel which will be sourced from WATCO/Ground Water.
6. **Waste Water generation** - It is expected that the project will generate approx. 272 m³/day of waste water. The waste water will be treated in the STP of capacity of 300 m³/day provided within the complex, out of which 258.4 m³ will be recycled for landscaping (165 m³/day), dust suppression (93.4 m³/day), STP loss (13.6 m³/day). Zero discharge is proposed in non monsoon period and 165KLD treated water will be discharge to drain in monsoon period.
7. **Rainwater harvesting Pits:** A total no. of 111nos of rainwater harvesting pits at selected locations is proposed, which will catch the maximum run-off water from the area.
8. **Power requirement:** The daily power requirement for the proposed Hotel Project is preliminarily assessed as 2500 KVA source from TPCODL, Bhubaneswar. To meet emergency power requirements during the grid failure, there is provision of DG set having 2000 KVA capacity for power back up in the Hotel. The stack height of DG set is 32.64m.
9. **Renewable Energy/ solar Usage** - 40 Nos. of Solar Street Light poles of 2.88 KW capacities will be directly connected with Solar Panel.124.2 KW Solar energy generated from 60 nos. of PV Panels will be distributed to Grid with proper agreement. Thus, 5.6% of total power is contributed from solar energy.
10. **Total Solid waste generation and management:** From the hotel complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/person/day, which will be about 315.0 kg/day. The generated solid waste from the hotel complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate colored bins. Proper waste management practices will be adopted during the collection, storage and disposal of the generated solid waste and construction and demolition waste.

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Hotel Population	700 @ 0.45 kg/day	315.0
2.	Floating Population	70 @ 0.15 kg/day	10.5
3.	STP Sludge	--	45.0
	Total		370.5

11. **Green belt:** Total area for greenbelt proposed is 10440.89sqm (21.5% of the plot area). The plantation matrix adopted for the green belt development includes pit of 0.3 m x 0.3 m size with a spacing of 2 m x 2 m. Multi-layered plantation comprising of medium height trees (7 m to 10 m) and shrubs (5 m height) are proposed for the green belt.
12. **Parking area:** Total Parking Area provided will be 31874.68sqm /1075 ECS consisting of Open Parking - 8947.0 sqm / 358 ECS, Basement Parking - 1 – 9500sqm /297 ECS and Basement Parking - 2 - 13427.68sqm /420ECS.
13. **Firefighting details:** Firefighting system will be installed as per recommendation of the Fire Prevention Officer, Odisha and as per the guideline of NBC. The firefighting system comprises

of Hose Reel, Down Comer, Automatic operated electric Fire Alarm system, Terrace Tank, Extinguisher and Fire Hydrant System, Automatic Fire Sprinklers system. Safe Evacuation route for building residents should be cleared marked to ensure safety of residents during any emergency.

14. **Project cost:** The total cost of project is 385 crores and cost of Environment management plan is 175 lakhs.
15. **Environment Consultancy:** The proponent along with the consultant **M/s Centre for Envotech and Management Consultancy Pvt. Ltd. Bhubaneswar** made a detailed presentation before the SEAC.

Considering the information furnished and the presentation made by the consultant, **Centre for Envotech and Management Consultancy Pvt. Ltd, Bhubaneswar** along with the project proponent, the SEAC decided to take decision on the proposal after receipt of the following from the proponent followed by site visit of Sub-Committee of SEAC:

- a) Land documents with kissam of land.
- b) The project boundary is adjacent to boundary of Eco-Sensitive Zone of Chandaka Wildlife Sanctuary. Certificate from concerned DFO that the project is not coming within the Eco-Sensitive Zone of Chandaka Wildlife Sanctuary.
- c) Certificate from concerned DFO that construction activity for the project can be allowed as per recent order of the Hon'ble Supreme Court.
- d) Copy of application applied to BMC for drainage connection and current status of it.
- e) A Study on impact on wildlife due to the upcoming project to be carried out in consultation with the concerned DFO and report to be submitted.
- f) Safety measures to be taken to prevent trespass of wild animals to the project site.
- g) Corrected KML file of the project with boundary co-ordination and demarcation in yellow colour.
- h) Layout of Rain Water Harvesting Pits.
- i) Undertaking that transit house from the project premises shall be relocated before commencement of construction activity of the project.

ITEM NO. 03

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF SIKHARDEVI RIVER SAND QUARRY OVER AN AREA OF 31.00ACRE OR 12.545HA. AT VILLAGE - SIKHAR, TAHASIL - NAUGAON, DISTRICT - JAGATSINGHPUR OF TAHASILDAR, NAUGAON- EC

1. This proposal is for environmental clearance of Sikhardevi river sand quarry over an area of 31.00acre or 12.545ha. at village - Sikhar, Tahasil - Naugaon, District - Jagatsinghpur of Tahasildar, Naugaon.
2. **Category** :This proposal falls under Category "B1", 1(a) - Mining of Minerals as the Mining lease area is more than 5.0 Ha. as per the EIA notification 2006 and its subsequent amendments.

3. The quarry lease has not yet been auctioned and Tahasildar, Naugaon is present lessee of the sairat source. The period of lease is 5 years, as mentioned in approved mining plan. Mining lease is an identified sairat source in the DSR of Annexure I & sl.no. 6 which shows it is a working mine. The lease area has no other mines within 500 meters.
4. Mining Plan with Progressive Mine Closure Plan has been approved by Geologist, O/o Joint Director Geology Zonal Survey, Dhenkanal, Odisha vide letter no. Memo no.-1165 dated 19/10/2020.
5. **Location:** Sikhar Sand Quarry is located on Devi River located at Village - Sikhar, Khata No. 760, Kisam - Nadi, Plot No. - 1482(p), Tahasil - Naugaon, District - Jagatsinghpur, Odisha. The geo coordinates of the project are Latitude 20°03'40.5" N to N 20°03'48.7" N and Longitude 86°11 '01.2" E to 86°11'18.2" E. The area falls in Survey of India Topo sheet No. F45U4.
6. **Connectivity:** The sand quarry is at a distance of 1.32km from nearest village Sikhar and 21.4km from nearest town Jagatsinghpur. Nearest railway station is Gorakhnath Railway Station at 28.4km, nearest Airport is Biju Patnaik International Airport, Bhubaneswar about 44.3km and nearest Highway is SH-60 about 10.2km. Nearest Bridge is Devi River Bridge at 2km and River Embankment is about 0.6km. Nearest Reserve Forest is Dhaltangagarh Reserve Forest which is about 28.3km. There is no National Park, Wildlife Sanctuary, and Biosphere Reserve, Wildlife Corridors, Tiger/Elephant Reserves, Protected Forest etc. within 10 km radius of the Mine site.
7. **Topography:** It is gently sloping almost flat terrain with Seismic Zone – III as per IS: 1893 (Part-I): 2002 Survey of India with Topo-Sheet no. 73L/3.
8. **TOR:** SEIAA has issued the Terms of Reference (TOR) to sand quarry vide letter no - SIA/OR/MIN/58867/2020 on 08/07/2021.
9. **Public hearing:** Public hearing was conducted on dated 27.07.2022 at 10.30AM at ground near gram panchayat office, Village- Sikhar, Tahasil – Naugaon, District – Jagatsinghpur under the chairmanship of Smt. Chinmayee Biswas, Additional District Magistrate, Jagatsinghpur.
10. Main issues raised in public hearing are - repairment of road and proper communication facility and estimated budget allocated is Rs. 30,000, air born sand dust due to transportation activity and requested for water sprinkling on transport roads and plying of heavy vehicles at slower speed. The project proponent has assured sand will be fully covered by tarpaulin at the time of transportation. Plantation will be done along the roads, at the river bank and periodically water sprinkling will be done and estimated budget allocated is Rs. 40,000. Stone pitching along the river embankment will be carried out to maintain the slope stability and protection of the river embankment and estimated Budget is Rs. 25,000.
11. **Land-Use:** Land cover pattern of the study area delineating all the features has been studied through satellite imagery. The entire land use of the proposed area is a river bed which lies on Devi River. There will be no diversion or modification of any land use due to the mining activity.
12. **Replenishment study:** For the said project replenishment study has been done by field survey (volumetric survey) method. The replenishment of sand in the mining lease area is sufficient to sustain the mining operations at prescribed levels, restricted to 1m. The Pre-

monsoon date of survey indicates that there is 257536cum of sand as Geological Reserve and 231040cum of sand as Mineable Reserve with depth of 2.2m. The Post-monsoon date of survey indicates that there is 269243cum of sand as Geological Reserve and 241541cum of sand as Mineable Reserve with depth of 2.3m & proposed production is 22582CuM per annum i.e. approx. 70% replenishment can be done

13. **Reserves and Mining:** Total reserves as per the approved mining plan are: Geological Reserves – 250906cum and Mineable Reserves – 226800cum. Proposed production is 22582cum/per annum and total production is 112910cum. Mining method is opencast manual mining method. Water table will not be intersected during the mining process.
14. No liquid waste will be generated from mining activities. A small amount of domestic wastewater from office toilet will be discharged into the soak pits/septic tank. Portable toilets will be used for generated domestic waste water.
15. **Manpower :** Total man power of 31 people will be required for the proposed project.
16. **Water requirement :**The total water requirement for the project estimated to be 3 KLD for mining, spraying, greenbelt development and domestic uses and will be sourced from the nearby available water source and drinking water will be sourced from tanker water.
17. **Power requirement :** No electrical power shall be required for mining operations.
18. **Greenbelt:** Greenbelt will be developed @ 50 nos saplings per year with consultation of concerned authority. As per commitment during public hearing plantation will be carried out along both sides of the haulage road and river bank. Native Species will be preferred for the plantation.
19. **Baseline study** of the study area was conducted during pre-monsoon from 1st October 2021 to 31st December 2021 for Sikhhar Devi River Sand quarry. Ambient Air Quality Monitoring made in 8 locations & results shows the values of PM₁₀ – 54.6 µg/m³ to 71.06 µg/m³, PM_{2.5} – 16.71µg/m³ – 27.21µg/m³ , SO₂ – 6.61µg/m³ – 9.1µg/m³, NO_x – 9.7 µg/m³ -13.6 µg/m³ and noise ranges from 42.1dB(A) – 53.2 dB(A) during day time and 39.6 dB(A) – 42.5 dB(A) during night time.
20. **Project cost:** The estimated cost of the project is about 20Lakhs and the cost for Environment Management Plan - Capital cost: Rs.1,45,000/- and Recurring Cost: Rs.75,000/-
21. **Environment Consultancy:** The proponent along with the consultant **M/s Green Circle Inc., Gujarat** made a detailed presentation before the SEAC.

Considering the information furnished and the presentation made by the consultant **M/s Green Circle Inc., Gujarat** along with the project proponent, the SEAC decided to take decision on the proposal after receipt of the following from the proponent:

- a) Replenishment Study Report details i.e., photographs, co-ordinates of pits, depth and volume of sand before and after monsoon period and correlate the result with the values obtained.
- b) Kissam details of land and NOC from Tahasildar for usage of approach road from proposed quarry to main road.
- c) An undertaking that plantation shall be carried out alongside the road.

- d) Authorization letter of the project proponent for engagement of Environmental Consultant for execution and monitoring of Environment Management Plan.

ITEM NO. 04

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR SUNATHAR-A STONE QUARRY (2.00AC./0.809 HA.) SUNATHAR -B STONE QUARRY (13.00 AC./5.261HA.) AND SUNATHAR -C STONE QUARRY (13.00 AC./5.261HA.) IN SUNATHAR VILLAGE OF PURUSHOTTAMPUR TAHASIL, DISTRICT- GANJAM, STATE ODISHA OF SRI GOPALCHANDRA SAHU & SRI KAPILA CHANDRA SAHU (SUBMITTED UNDER CLUSTER APPROACH OF TOTAL CLUSTER AREA 11.331 HECTARES, CONSISTING OF 3 STONE QUARRIES) – EC

1. This proposal is for environmental clearance of Sunathar-A stone quarry (2.00ac./0.809 ha.) Sunathar -B stone quarry (13.00 ac./5.261ha.) and Sunathar - C stone quarry (13.00 ac./5.261ha.) in Sunathar village of Purushottampur tahasil, district- Ganjam, state Odisha of Sri Gopalchandra Sahu & Sri Kapila Chandra Sahu.
2. **Category** :This proposal falls under Category “B1”, 1(a) - Mining of Minerals as the Mining lease area is more than 5.0 Ha. as per the EIA notification 2006 and its subsequent amendments.
3. This present proposal of Sunathar Stone Quarry (A, B & C)) is a cluster stone mining project and the total cluster area is 11.331ha. is located in village - Sunathar, Tahasil- Purushottampur & District- Ganjam, Odisha. Sunathar Stone Quarry (A & B) mining leases are granted to Sri Gopal Chandra Sahu and Sunathar Stone Quarry C is granted to Sri Kapila Chandra Sahu by Tahasildar, Purushottampur vide letter no. - 3504 dated 31-08-2019 for Sunathar - A, vide letter no. 4963 dated 19-09-2018 for Sunathar - B & vide letter no. 4964 dated 19-09-2018 for Sunathar – C.
4. The Mining Plan of proposed stone quarry (A), (B) & (C) (3 Nos.) has been approved by the approving authority, Directorate of Geology, Bhubaneswar, Odisha vide letter nos. GXV(j)-175(P)/2897/ DG on 14-05-2020 for Sunathar Stone Quarry – (A), GXVII(g)-175/18 DG on 18-03-2020 for Sunathar Stone Quarry – (B) and GXVII(g)-176/18 DG on 18-03-2020 for Sunathar Stone Quarry – (C).
5. The mining lease area is identified and listed in the DSR of Ganjam under minor mineral – stone page no. 72 & 75, para no.56, 57 and 77. It's a new cluster mine as mentioned in checklist.
6. **Location and connectivity**: The Sunathar Stone Quarry Cluster (A, B & C) is proposed on Khata no. 2103, Plot no. 6439 (A,B,C) located at Village-Sunathar, Tahasil- Purushottampur, District - Ganjam, Odisha. The Geo coordinates of the cluster extends from Latitude 19°24'41.85"N to 19°24'57.65"N and Longitude 84°53'20.25"E to 84°53'34.67"E with an elevation of about 50 m RL to 103 m. The area falls in Survey of India topo sheet No. E45A15. Nearest Town is Purushottampur, approx.12 km in North direction, nearest Railway Station is Narsimhapur Railway station, approx. 6.0 km in NE direction, nearest State & National Highway are SH 36, approx. 2.5 km SE direction and NH 5, approx. 9.2 km SE direction, nearest Airport is Bhubaneshwar Airport is approx. 135 km towards NE direction. Nearest Road Bridge is at a distance of 11.0 km from the mining lease.
7. There is no National Park or Biosphere Reserve within 10 km distance from the lease area. Nearest sanctuary is Lakhari sanctuary located at 22kmTaratarini Narsinghapur RF is approx. 8.0 km in North direction. Open mix Jungle is approx. 9 km in SE direction. Biribandha Water

Reserve is approx. 0.8 km in SE direction, Diali Bandha Water Reserve is approx. 4.0 km in NE direction. The lease area is not coming under DLC land as reported by DFO, Brahmapur Division.

8. **TOR:** Terms of Reference (TOR) has been issued by SEIAA, Odisha vide letter no.1257/SEIAA dated 09.04.2021.
9. **Public hearing:** Public hearing was successfully conducted on 20.07.2022 at 11:00 AM, as per the guidelines given in EIA Notification 14th September' 2006 and its subsequent amendment at quarry site of village Sunathar, Purushottampur Tahasil of Ganjam District.
10. **Issues raised during public hearing for this project** - Dust pollution, plantation for protection of environment, local employment, provision for ID cards and Insurance facilities to workers, minor minerals shall be available for the local people at the cheap price.
11. **Total Reserves & production:** The total geological reserves of the cluster area –

Sunathar Stone Quarry – (A) 96300cum, Sunathar Stone Quarry – (B) 407232cum and Sunathar Stone Quarry – (C) 1041057cum. The total mineable reserves of the cluster area - Sunathar Stone Quarry – (A) 44752cum, Sunathar Stone Quarry – (B) 309286cum and Sunathar Stone Quarry – (C) 766833cum. The total production of the cluster during the 5 year plan period is 22140cum and annual production is 4,554cum as per the below given table.

Year	Cross sectional area (sq.m)	Volume (cu.m)	Recovery (90%)	Production (cu.m.)	Cross sectional area (sq.m)	Volume (cu.m)	Recovery (90%)	Production (cu.m.)	Cross sectional area (sq.m)	Volume (cu.m)	Recovery (90%)	Production (cu.m.)
	Sunathar Stone Quarry A				Sunathar Stone Quarry B				Sunathar Stone Quarry C			
1 st	20	1700	0.9	1530	40	1600	0.9	1440	22	1760	0.9	1584
2 nd	20	1700	0.9	1530	40	1600	0.9	1440	22	1760	0.9	1584
3 rd	20	1700	0.9	1530	40	1600	0.9	1440	22	1760	0.9	1584
4 th	20	1700	0.9	1530	40	1600	0.9	1440	22	1760	0.9	1584
5 th	20	1700	0.9	1530	40	1600	0.9	1440	22	1760	0.9	1584
	Total			7650	Total			7200	Total			7290

12. **Mining method:** The mining method will be opencast semi-mechanized method with bench height 5.0m and width more than height. Ultimate pit depth max. 4m to 8m (8m, 4m & 8m for mine A, B & C respectively) at the hills & slopes (upto 68m RL for mine A & B and upto 66m RL for mine C). Ultimate pit slope will be 45°.

13. **Waste Generation and management** - About 10 % of mine waste will be generated which is mineral fines along with undersized material & other intermediate weathered products. These wastes will be disposed to the proposed dump yard in NW part of lease area. These wastes will be used for the construction of mine road. Since, the dump will be active during the plan period so no reclamation has been suggested.

Year	Waste generation (10%) cu.m.

	Sunathar Stone Quarry A	Sunathar Stone Quarry B	Sunathar Stone Quarry C
1 st	170	160	176
2 nd	170	160	176
3 rd	170	160	176
4 th	170	160	176
5 th	170	160	176

14. **Water requirement:** The total water consumption of the Sunathar stone cluster is about 7.5KLD (Domestic & drinking – 0.38KLD + Dust suppression – 3.1KLD + Green belt development – 4KLD). The water will be supplied from available sources from nearby village.
15. **Waste water:** The waste water generation from the above consumption is mainly from domestic consumption i.e. the waste water generated from the domestic front is mainly from toilets. This water will be treated in septic tank followed by soak pit.
16. **Power requirement:** Electrical power will be required only for site office and will be obtained from Solar energy. Transportation will be done through dumpers or trucks operating on diesel. No storage for diesel is proposed.
17. **Manpower:** The total manpower requirement is 38 persons.
18. **Greenbelt:** The entire plantation will be done on the periphery of the reclaimed area. Precautionary measures will be taken for care of the forestation made by regular watering in the afforested area, to protect from grazing animals. Plantation will be raised at a spacing of 2.5m along the boundaries of the mining lease by planting the native species around ML area, backfilled and reclaimed area, around water body, roads etc. in consultation with the local DFO/Agriculture department as per the below table.

Year	Total Plantation	Green belt Nos.					
		Sunathar Stone Quarry A	Area (Ha)	Sunathar Stone Quarry B	Area (ha)	Sunathar Stone Quarry C	Area (ha)
1 st year	3746	266	0.266	1740	1.74	1740	1.74
2 nd year							
3 rd year							
4 th year							
5 th year							
Total	3746	266	0.266	1740	1.74	1740	1.74

19. Baseline study has been conducted in Post Monsoon Season of 2020 i.e, from Oct, 2020 to Dec, 2020. Ambient Air Quality Monitoring made in 7 locations & results shows the values of PM10 ranges from – 40.24 µg/m³ to 63.79 µg/m³, PM2.5 – 20.28µg/m³ to 32.42µg/m³, SO₂ – 7.23µg/m³ to 14.28µg/m³, NOx – 9.68 µg/m³ -19.9 µg/m³. Water Quality Monitoring made in 6 locations for ground water and 4 locations for surface water. For ground water all parameters like TDS (322 to 405mg/l), pH (7.24 to 7.86), Chloride (84 mg/l to 101 mg/l), Fluoride (0.21mg/l to 0.40mg/l) etc. are found within permissible limits & fit for consumption

and for surface water value of pH (7.24 to 7.56), Chloride (37– 41 mg/l) DO (6.8 to 7.1 mg/l) etc. are found within permissible limits & fit for consumption. Similarly, noise was monitored at 6 locations and value ranges from 48.7dB(A) – 59.2 dB(A) during day time and 37.6 dB(A) – 44.3 dB(A) during night time.

20. **Project Cost:** The estimated cost of the project is ₹ 75 lakhs. Cost for implementation of EMP is - Capital cost - ₹ 14.467 lakhs (in Cluster) and Recurring cost - ₹ 11.920 Lakhs/annum (in Cluster)
21. **Environment Consultancy:** The proponent along with the consultant **M/s P & M Solution, Noida**, made a detailed presentation before the SEAC.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s P & M Solution, C-88, Sector 65, Noida** on behalf of the proponent, the SEAC approved the EIA/EMP report in cluster approach and recommended the following:

- a) The SEIAA, Odisha may consider to grant Environmental Clearance to individual lease for Sunathar Stone Quarry (A, B & C) in cluster without referring to SEAC with specific conditions as per **Annexure – A** after receipt of individual applications from the lessee in cluster along with following documents.
- i) Filled in form-I of individual lease
 - ii) Prefeasibility report of individual lease
 - iii) EMP of individual lease.
 - iv) Approved Mining Plan of individual lease.
 - v) Report on vibration study.
 - vi) DLC status of the lease area from concerned DFO as certified by the concerned Tahasildar.
 - vii) An Undertaking by the lessee not to use wagon drilling blasting to be submitted. Accordingly, specific condition to be stipulated in EC of individual lease.
 - viii) No storage and usage of blasting materials/explosives inside the lease area without license/permission/authorization from competent Authority as per Indian Explosives Rules, 1983 shall be ensured by the lessee. An undertaking to this effect shall be submitted by the lessee. Accordingly, specific condition to be stipulated in EC of individual lease.
 - ix) An undertaking to obtain NOC from CGWA and permission from WR department, Govt. Of Odisha for use of ground water. Accordingly, specific condition to be stipulated in EC of individual lease.
 - x) The project proponent shall maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the stone quarry for ensuring that working personnel are not affected by silicosis.

ITEM NO. 05

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S SRI JAGANNATH PROMOTERS & BUILDERS FOR RESIDENTIAL APARTMENT PROJECT OF B+S1+S2+20 STORIED & G+3 CLUB HOUSE OVER AN AREA AN PLOT AREA – 11,408.16 M2 AND TOTAL BUILT UP AREA –

62,835.59 M2 LOCATED IN MOUZA-SANKARPUR & AIGINIA, DISTRICT - KHURDA, BHUBANESWAR, ODISHA OF SRI. PRADIPTA KUMAR BISWASROY (MANAGING PARTNER) – EC

The project proponent did not attend the meeting. Earlier, they have missed to attend the meeting. The SEAC decided to return the proposal to SEIAA, Odisha.

ITEM NO. 06

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR RAJNAGAR SAND MINE WITH PROPOSED EXCAVATION OF 40,002 m³/year OF SAND, AT SUBARNAREKHA RIVER BED HAVING AN AREA OF 5.48 HA LOCATED AT KHATA NO. - 377, PLOT NO - 1295/1300 VILLAGE - RAJNAGAR, TAHASIL - JALESWAR, DISTRICT - BALASORE OF SMT LAXMIPRIYA PRUSTY- EC

1. This proposal is for environmental clearance for Rajnagar sand mine at Subarnarekha River bed, over a mining lease area of 5.48ha. located at khata no. - 377, plot no - 1295/1300, village - Rajnagar, Tahasil - Jaleswar, District Balasore with proposed excavation of 40,002 m³/year of sand of Smt. Laxmipriya Prusty.
2. **Category:** This proposal falls under Category "B1", 1(a) - Mining of Minerals as the Mining lease area is more than 5.0 Ha. as per the EIA notification 2006 and its subsequent amendments.
3. The mining lease has been granted to Smt. Laxmipriya Prusty, W/o-Ratikant Rout, resident of Balaramprasad village, P.S-Motanga of Dhenkanal district from Tahsildar cum-Competent Authority, Jaleswar, Dist-Baleswar, Odisha vide letter no. 5056 dated 20.11.2019.
4. Mining Plan has been approved by the Directorate of Geology & Mining, Bhubaneswar vide letter No.1061 dated 18.04.2018 for a period of 5 years.
5. The quarry has no other mines within 500 meters. It is a new sand quarry.
6. Mining lease is an identified sairat source in the DSR - page no. 35, sl.no. 23 of Annexure I.
7. **Location:** Rajnagar Sand Mine is at bank of Subarnarekha river on Khata No.377, Plot No.1295/1300 at village - Rajnagar, Tahasil – Jaleswar, District - Balasore (Odisha). The geo coordinates are Latitude: 21°48'30.9" N to 21°48'20.9"N & Longitude: E87°12'52.2" to 87°12'43.2"E. The area falls in Survey of India Topo sheet No.73O/1(F45P1).
8. **Connectivity:** The area is approachable by fair weather road. The nearest National Highway is NH – 60 about 3.25km, nearest railway station is at Jaleswar about 1.30km and nearest Airport is Netaji Subhas Chandra Bose International Airport, Kolkata at about 150 km from the mining site.
9. **TOR Details:** SEIAA has issued the Terms of Reference to quarry vide Proposal No SIA/OR/MIN/54634/2020 & letter no.9237/SEIAA, dated 14.10.2020 & File no: 54634/38-MINB1/09-2020.
10. **Public hearing:** Public hearing was conducted on date 11.05.2022 at 10:00AM, in the locality of the sand quarry, near Shikharpur Gram Panchayat Office, under Jaleswar Block under Balasore district.
11. **Issues raised during public hearing for this project –** Operation of the sand quarry as per the Environmental Rules and Regulation, Dust suppression, safety and protection of road during

transportation, mode of transportation, cost of Sand, timing of mining and restriction of transportation of sand during night time.

12. **Topography** - The lease area is almost flat land covered with sand, during monsoon season due to heavy flow of water; sand dunes are formed within the lease area. Mining will be carried out at 18mRL upto an maximum depth of 3m; 15 mRL will be the quarry floor at the end of the plan period. The river flows towards NE - SW direction.
13. **Total Reserves and Mining method:** Geological Reserves of project site is 164400m³ and mineable reserves are 139563m³. As per the mining plan, mining will be by means of opencast manual mining method. The proposed annual production capacity is 40,002cum and total production is 200010cum during the plan period.
14. **Water Requirement:** The total water requirement for the project estimated to be 5KLD i.e., for dust suppression (2KLD), greenbelt development (1.5KLD) and domestic uses (1.5KLD) and will be sourced from nearby available water resource and for drinking water it will be sourced from tanker.
15. **Waste water generation:** No liquid waste will be generated from mining activities. A small amount of domestic waste water from office toilet will be discharged into the soak pits/septic tank.
16. **Manpower:** Total manpower of 46 persons will be required for the proposed project.
17. **Power requirement:** No electricity required for operations of the mining, the mining will be worked out during day time only. The power required for office is minimal, shall be taken from the general electric supply of the area.
18. **Greenbelt:** The plantation will be developed in the haul roads and other places. During plan period, it has been proposed by the lessee to plant 200 nos. of saplings, covering 1000sqm. of area.
19. **Baseline study** has been conducted during Post Monsoon Season of 2020 i.e., 01 October 2020 to 31 December 2020. Ambient Air Quality Monitoring made in 8 locations & the results shows the values of PM10 ranges from – 61.2µg/m³ to 89.8µg/m³, PM2.5 – 19.6µg/m³ to 27.8µg/m³ , SO₂ – 5.8µg/m³ to 9.9µg/m³, NOx – 9.2µg/m³ -13.9 µg/m³. Water Quality Monitoring made in 6 locations for ground water and 4 locations for surface water. For ground water all parameters like TDS (322 to 405mg/l), pH (7.24 to 7.86), Chloride (84 mg/l to 101 mg/l), Fluoride (0.21mg/l to 0.40mg/l) etc. are found within permissible limits & fit for consumption and for surface water values of pH (7.24 to 7.56), Chloride (37– 41 mg/l) DO (6.8 to 7.1 mg/l) etc. are found within permissible limits & fit for consumption. Similarly, noise was monitored at 6 locations and value ranges from 34.2dB(A) – 50.5dB(A) during day time and 40.5dB(A) – 67.8dB(A) during night time.
20. **Project cost:** The estimated cost of the project is 10 lakhs. Cost for implementation of EMP is - Capital cost - Rs 145000 and Recurring cost - Rs 75000/annum. The CER budget allotted – Rs. 20,000.
21. **Environment Consultancy:** The proponent along with the consultant **M/s Green Circle Inc, Gujarat**, made a detailed presentation before the SEAC.

Considering the information furnished and the presentation made by the consultant **M/s Green Circle Inc, Gujarat**, along with the project proponent, the SEAC decided to take decision on the proposal after receipt of the following from the proponent:

- a) Replenishment Study Report details i.e., photographs, co-ordinates of pits, depth and volume of sand before and after monsoon period and correlate the result with the values obtained.
- b) Kissam details of land and NOC from Tahasildar for usage of approach road from proposed quarry to main road.
- c) An undertaking that plantation shall be carried out both the side of haulage road.
- d) Authorization letter of the project proponent for engagement of Environmental Consultant for execution and monitoring of Environment Management Plan.
- e) Since, school and village are nearby, detailed guideline for plying of vehicles on the haulage road near village & school area for safety of school students and nearby habitation.

ITEM NO. 07

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR CHANDANIA STONE QUARRIES CLUSTER OVER AN AREA OF 75.742 ACRES OR 30.651 HECTARES IN MOUZA CHANDANIA HILL, TAHASIL KUKUDAKHANDI IN DISTRICTGANJAM, STATE-ODISHA OF TAHASILDAR KUKUDAKHANDI (SUBMITTED UNDER CLUSTER APPROACH WITH TOTAL CLUSTER AREA 30.651 HECTARES, CONSISTING OF 5 STONE QUARRIES)-TOR

1. The proposal was considered by the committee to determine the “Terms of Reference (ToR)” for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. **Category:** This proposal falls under Category “B1”, 1(a) - Mining of Minerals as the Mining lease area is more than 5.0 Ha. as per the EIA notification 2006 and its subsequent amendments
3. Chandania Stone quarries cluster is mining of stone, over an area of 75.742acre or 30.651ha. in mouza Chandania hill, Tahasil Kukudakhandi in district Ganjam,State Odisha of Tahasildar Kukudakhandi.
4. The Quarry leases will be granted to successful Bidders by the Tahasildar, Kukudakhandi after obtaining statutory clearances. Presently, Tahasildar, Kukudakhandi is the lessee for the Chandania Stone quarries cluster.
5. The total Cluster is consisting of 9 stone quarries but 4 stone quarries are in operational stage and their EC has not expired, hence the proposed cluster is confined to 5 Stone Quarries only as per the given table.

SI no.	Quarry name
01	Chandania Stone Quarry Plot no. 86, (4.245 Ha)
02	Chandania Stone Quarry Plot no. 83, (4.785 Ha)
03	Chandania Stone Quarry

	Plot no. 08,10,02,25 & 5/307, (12.516 Ha)
04	Chandania Stone Quarry Plot no. 22 & 33, (4.654 Ha)
05	Chandania Stone Quarry Plot no. 40/P, (4.451 Ha)
Total	

6. Mining plans has been approved by the Deputy Directorate of Geology, O/o Joint Director of Geology, South Zone, Berhampur.
7. Mining lease is an identified sairat source in the DSR - page no. 88, 89, sl.no. 150,151,153, 154, 156. These sairat sources are existing. There are no other mines within 500m of proposed Cluster. The sairat sources are not coming in DLC report as certified by Tahasildar, Kukudakhandi.
8. **Location:** The proposed Chandania Stone Quarries Cluster is located in Khata no. 117, Plot no. 86, 83, 08,10,02,25 & 5/307, 40/P & 22, 33 of kissam "Parbat, Pathrabani, Patita" in Mouza Chandania Hill, Tahasil- Kukudakhandi, District Ganjam, Odisha over an area of 75.742acre or 30.651ha. The geo coordinates are Latitude -19°19'15.24"N to 19°19'39.98"N and Longitude - 84°43'55.21"E to 84°44'51.22"E. The area falls in Survey of India Topo sheet no. 74A/11(E45A11).
9. **Connectivity:** The quarry area is accessible by all weather & well-connected by road and rail. The nearest Railway line is at Berhampur Railway Station at a distance of 6.50km in SE. Nearest National Highway is NH-59 is at a distance of 2.70km in SE. Nearest State Highway is SH-17 at a distance of 1.90km in NE. Nearest river embankment is at Bodalundi. Road bridge on Ghodahada River at a distance of 15.00km in NW. Nearest Sanctuary is Lakhari valley wildlife sanctuary at a distance of 36.00km in NW. Nearest reserve forest is Ramagurha Reserve Forest is at a distance of 3.50km in NW. Nearest Archaeological site is Asoka rock Edict at Jaugada Pandia at a distance of 24.00km in NE.
10. No ecologically sensitive areas such as wildlife sanctuary, Bioreserve, etc. are coming under 10km radius of the proposed lease area.
11. **Reserves** - The total Geological reserve of cluster area is 5623207cum and Mineable reserve is 4099499cum.
12. **Mining method and production:** The method of mining is opencast semi-mechanized mining method. Around 8397cum per month will be dispatched from the mine. The total production annually is 75573cum of stone and 342340cum is the total production from the cluster during the plan period. The excavated stone will be directly sent to the nearest stone crusher for crushing.
13. **Waste generation and management** - During plan period 41985cum of waste will be generated from the total cluster area. Considering swell factor as 1.2 the total broken volume will be 50382cum. For dumping these waste materials a proposed dump has been suggested in the SE part of quarry area covering an area of 0.7Ha. Around 40% of waste will be utilized in the development mine haulage road. A retaining wall around the dump will be constructed to prevent the wash off of dumps. Around the retaining wall a garland drain and settling tank will be provided to prevent the possible transportation of mine dust or fines.

14. **Drainage** - The surface runoff water from the quarry will be discharged directly to the river channel. There is no possibility of ground water puncture during the plan period.
15. **Water requirement:** The total water requirement will be approx. 16KLD for the cluster for different purposes like Domestic(1.39KLD), Dust suppression(14.58KLD), plantation purposes(0.46KLD). Water will be resourced from the nearby village through tankers.
16. **Power requirement:** No electricity required at quarry site. Only diesel is used for operating mining equipment only. For which 4 KL of HSD will be used and sourced from local market.
17. **Manpower:** Around 139 nos. of person are to be employed. Indirect employment through creation of hired vehicles, etc also can be generated to full fill the day to day requirements of the mining personals.
18. **Green belt** shall be developed along the boundary of stone quarry area with the native tree species. Around 1150 saplings will be planted over an area of 0.550 ha in the safety zone. Species likely to be planted are Chakunda, neem etc. as per the availability. Spacing between the saplings will be kept 2.5 meters x 2.5 meters only.
19. **Project cost:** The approximate cost of the project comes around ₹ 2.0 Crores (cluster) and ₹ 4.0 lakhs for CER.
20. **Environment Consultancy:** The proponent along with the consultant **M/s P & M Solution, Noida** made a detailed presentation before the SEAC.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s P & M Solution, Noida** the SEAC decided to take decision on the proposal after receipt of the following from the proponent.

- a) There are total 9 quarries in cluster approach. Out of which 4 quarries with total lease area 4.785 ha. are in operation after obtaining EC from DEIAA, Ganjam. The DEIAA had the power to grant EC for total lease area of ≤ 5 ha. in cluster approach. Clarification shall be submitted how DEIAA has given EC for 4 quarries only when there are another 5 quarries of total lease area 30.651 ha. in cluster.
- b) Distance between each quarry for 9 stone quarries in cluster.
- c) Detailed safety procedure for fly-rocks during blasting.
- d) Traffic study details of the area.
- e) Re-submit the KML data file with boundary co-ordinations of each quarry and boundary demarcation of each quarry in yellow colour.
- f) Copy of Environmental Clearance of each individual quarry operating in a cluster of 4 quarries.
- g) Certified copy of compliance to conditions of EC, CTE and CTO of operational 4 stone quarries.

ITEM NO. 8

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CHANDANIA STONE QUARRY OVER AN AREA OF 11.825 ACRES OR 4.785 HECTARES BEARING KHATA NO. 117, PLOT NO. 83 IN VILLAGE CHANDANIA, TAHASIL KUKUDAKHANDI, DISTRICT - GANJAM STATE ODISHA (SUBMITTED UNDER CLUSTER APPROACH WITH TOTAL CLUSTER AREA 42.258 HECTARES WITH CONSISTING OF 9 STONE QUARRIES) OF SRI PREM PATRO – TOR

The concerned Tahasildar intimated during the presentation of Item No. 7 that they will not pursue the ToR application of this proposal of 4 stone quarries which are operating in cluster after obtaining EC from DEIAA.

The SEAC opined that both item no. 7 and 8 are interlinked and decision on withdrawal of this ToR application will be taken after receipt of the following from the concerned Tahasildar.

- a) Official request letter for withdrawal of application.
- b) Compliance to the queries as raised in Item No. 7.

ITEM NO. 9

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR RENGITIPALLI- A STONE QUARRY (56.157 AC./22.726 HA, RENGITIPALLI- B STONE QUARRY (33.716AC./13.644 HA.), RENGITIPALLI- D STONE QUARRY (10.875 AC./4.401 HA.) & RENGITIPALLI- E STONE QUARRY (12.00 AC./4.856 HA.) IN THE VILLAGE RENGITIPALLI UNDER TAHASIL KODALA IN DISTRICT GANJAM, STATE ODISHA (SUBMITTED UNDER CLUSTER APPROACH WITH TOTAL CLUSTER)-TOR

The project proponent did not attend the meeting. Earlier, they have missed to attend the meeting. The SEAC decided to return the proposal to SEIAA, Odisha.

ITEM NO. 10

PROPOSAL FOR AMENDEMENT IN ENVIRONMENTAL CLEARANCE OF M/S. PENGUIN TRADING AND AGENCIES LTD. FOR IRON ORE PRODUCTION FROM 1.080 MTPA TO 2.160 MTPA FROM RAIKELA & TANTRA IRON ORE MINE OVER AN AREA 49.372 HA. AT VILLAGE-RAIKELA & TANTRA, TAHASIL-KOIRA, DISTRICT- SUNDARGARH, ODISHA OF SRI RAMAN RASHMI NAYAK - MOD EC

1. This proposal is for Amendement in Environmental Clearance of M/s. Penguin Trading and Agencies Ltd. for Raikela & Tantra Iron Ore Mines for Iron Ore production from 1.080 MTPA to 2.160 MTPA over an area 49.372 ha. at Village- Raikela & Tantra, Tahasil - Koira, District - Sundargarh, Odisha of Sri Raman Rashmi Nayak.
2. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under, Category "B1".
3. Mining Lease of Raikela and Tantra Iron Mines was granted infavor of Sri Ramji Lal Bathwal for 20 years on 03.12.1986. The lease was transferred to M/s Penguin Trading & Agencies Ltd. on 23.06.1991.
4. The first renewal of lease was applied on 22.02.2005. Subsequently, under Section 8(A) of MMDR Act of 12.01.2015, the lease period was extended up to 02.12.2036 and hence supplementary lease deed was executed on 21.07.2016 between Govt. of Odisha and the lessee.
5. The ML area (49.372 Ha.) comprises of 48.632 ha Forest Land and 0.740 ha Non-Forest Land.
6. Penguin Trading & Agencies Ltd. has been granted Environmental Clearance for Expansion of Iron Ore Production from 1.080 MTPA to 2.160 MTPA vide EC Identification No.- EC22B001OR172761, File No.-215287/64-MINB1/12-2021, dated 17.03.2022.
7. Currently the mine is operating with 1.62 MTPA Iron ore production as per valid EC, CTE & CTO.
8. In the condition No.22 of Specific TOR (Recommendation of CSIR-NEERI carrying capacity study) it is mentioned that "out of Four Stations, One should be Online Monitoring Station in the Mines having more than 3.000 MTPA EC capacity" whereas they have been granted EC for enhancement of Production of Iron Ore up to 2.160 MTPA only.
9. However, the Project is carrying out the offline AAQ monitoring parameters say PM10, PM2.5, SO2, NOx and CO in 03 locations continuously inside the ML Area and 04 Locations outside

the ML Area monthly once by engaging an NABL/MoEF&CC accredited laboratory as per the CSIR-NEERI & Consent orders issued by the SPCB, Odisha.

10. Therefore, Penguin Traders and Agencies Ltd. made an appeal for amendment in Environmental Clearance for Specific condition No. B(I).15 of the granted Environmental Clearance for establishing One Online Monitoring Station.
11. The SEAC observed that previously similar type of appeal was considered by the SEAC in case of Patabeda Iron Ore Mines of M/s MGM Minerals Ltd. at village-Patabeda, Tahasil-Koira, Dist-Sundargarh in SEAC meeting held on 13.11.2020.

Considering the information / documents furnished by the proponent and presentation made by the consultant, the SEAC recommended for establishing One Continuous Ambient Air Quality Monitoring Station (CAAQMS) w.r.t the specific condition No. B(I).15 of Environmental Clearance granted by SEIAA, Odisha vide EC Identification No.-EC22B001OR172761, File No.-215287/64-MINB1/12-2021, dated 17.03.2022 Expansion of Iron Ore Production from 1.080 MTPA to 2.160 MTPA as per recommendation of CSIR-NEERI carrying capacity study.



Member Secretary, SEAC



Chairman, SEAC

ANNEXURE - A

SPECIFIC CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE OF INDIVIDUAL MINING LEASE OF SUNATHAR-A STONE QUARRY (2.00AC./0.809 HA.) SUNATHAR -B STONE QUARRY (13.00 AC./5.261HA.) AND SUNATHAR -C STONE QUARRY (13.00 AC./5.261HA.) IN SUNATHAR VILLAGE OF PURUSHOTTAMPUR TAHASIL, DISTRICT- GANJAM, STATE ODISHA OF SRI GOPALCHANDRA SAHU & SRI KAPILA CHANDRA SAHU (SUBMITTED UNDER CLUSTER APPROACH OF TOTAL CLUSTER AREA 11.331 HECTARES, CONSISTING OF 3 STONE QUARRIES) – EC.

1. This Environmental Clearance is granted subject to final outcome of cases in Hon'ble Supreme Court of India, Hon'ble High Court of Odisha, Hon'ble NGT and any other Court of Law, if any, as may be applicable to the quarry lease.
2. The Environmental Clearance is subject to obtaining requisite NBWL Clearance, if any, from the Standing Committee of National Board for Wildlife for Mining project.
3. The lessee shall implement the Pollution Control Measures and safeguards as proposed in the approved EIA/Environment Management Plan (EMP) in the cluster approach.
4. The lessee shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities.
5. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages. The lessee shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
6. The lessee shall obtain NOC from concerned Block Development Officer (BDO) or appropriate authority for usage of haulage road/Panchayat Road.
7. The lessee shall ensure safety of human life and livestock from accidents in case village / any habitation is very nearby the mining lease area.
8. The lessee shall ensure the safeguard and wellbeing of villagers and school, regular health monitoring of all residents in the area and the compliance Report shall be submitted to the regional office of the MOEF & CC and SEIAA, Odisha.
9. The lessee/concerned Tahasildar shall follow the detailed procedure for De-reservation of Gochar kissam land if involved in the lease area before going for mining activity.
10. Under no circumstances, the lessee shall use wagon drilling blasting during mining activity.

Environmental Scientist, SEAC

11. The lessee shall not store and use blasting materials/explosives inside the lease area without obtaining license/permission/authorization from competent Authority as per Indian Explosives Rules, 1983.
12. The lessee shall obtain NOC from CGWA and permission from WR department, Govt. Of Odisha for use of ground water and surface water, as the case may be .
13. The lessee shall complete the rejuvenation of ponds if any within lease area on priority basis after obtaining Environment Clearance.
14. No mining activities shall be allowed in forest area, if any, for which the Forest Clearance is not available.
15. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Odisha.
16. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
17. Mining shall be carried out as per the provisions outlined in the approved mining plan.
18. Protection of vegetation in the surrounding areas, and proper storage of solid waste, subgrade ore and their use have to be given priority during mining operation.
19. The illumination and sound at night at the lease area disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. Project Proponents must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.
20. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
21. The soil to be generated during mining activity shall be stacked in the earmarked temporary soil stack and shall be utilized for the plantation purpose to be undertaken around the respective hill/patch and adjacent to haul roads of the same in lease area.
22. The abandoned mine pit shall be converted to rain water storage tank and the rain water stored in pit shall be utilized for plantation as well as dust suppression.
23. Total Plantation shall be carried out within 2-3 years of mining activity and maintenance shall be continued in remaining years. Trees present in mining area shall be uprooted & transplanted in safety zone.
24. All the lease holders in a cluster to join hand through a registered MOU on cluster-to-cluster basis for laying of permanent pipeline by the side (one side) of the main haulage road with half-moon automatic sprinklers system for suppression of dust during movement of vehicles.

25. All the lease holders in a cluster should join hand for grading of the main haulage road to maintain the gradient facilitating smooth movement of vehicles.
26. The same cluster approach to be taken for development of green belt all around the cluster area baring catch dams for flow of runoff water during rainy season. These activities may be coordinated by the leadership in the cluster leases or RQP for the cluster with help from Revenue Inspector of the area for better results.
27. The SEIAA, Odisha may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
28. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
29. The above-mentioned stipulated conditions shall be complied in a time-bound manner. Failure to comply with any of the conditions mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.