

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 10TH JULY 2024**

The SEAC met on 10th July, 2024 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.

- | | | |
|------------------------------|---|-----------------------|
| 1. Sri Sashi Paul | - | Chairman (through VC) |
| 2. Dr. K. Murugesan | - | Member Secretary |
| 3. Dr. Rabi Narayan Patra | - | Member |
| 4. Dr. Chittaranjan Panda | - | Member |
| 5. Prof. (Dr.) H.B. Sahu | - | Member (through VC) |
| 6. Prof. (Dr.) Abanti Sahoo | - | Member (through VC) |
| 7. Er. Fakir Mohan Panigrahi | - | Member |
| 8. Prof. (Dr.) B.K. Satpathy | - | Member |
| 9. Er. Kumuda Ranjan Acharya | - | Member |
| 10. Shri Jayant Kumar Das | - | Member (through VC) |
| 11. Dr. Ashok Kumar Sahu | - | Member |
| 12. Dr. K. C. S Panigrahi | - | Member (through VC) |

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 SUMMA REAL MEDIA PVT. LTD FOR PROPOSED PHARMACEUTICAL MANUFACTURING & RESEARCH UNIT COMPRISING PHARMACEUTICAL FORMULATION & DEVELOPMENT CENTER OVER A TOTAL BUILT-UP AREA 46061.50M² AT MOUZA - GOTHAPATANA, BHUBANESWAR, DIST - KHORDHA OF SRI ANURAG NAYAK - EC

1. This proposal is for Environmental Clearance for M/s Summa Real Media Pvt. Ltd. for proposed pharmaceutical manufacturing & research unit comprising pharmaceutical formulation & development center over a Total Built-up area of 46061.50m² at Mouza - Gothapatana, Bhubaneswar, Dist - Khordha of Sri Anurag Nayak.
2. **Category:** This project falls under Category "B", Project or Activity 8(a) Building and Construction projects as per EIA Notification dated 14th Sept, 2006 as its amendments.
3. **Location and connectivity:** The proposed project is construction of building to facilitate a research unit comprising of pharmaceutical formulation & development centre. The project comprises of 10 nos. of RCC Buildings over revenue Plot no. 153-155, 157(P)-1 60 (P), 149(P) , 151(P), 156(P), 152(P) and Khata No. 1/E and Plot no. 3 , Revenue Khata no. – 684/3, IDCO land, located at Mouza - Gothapatna, Dist-Khorda. The project site falls under Topo sheet No.

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Environmental Scientist, SEAC

F45T15. The site is coming under IDCO Industrial Area. The site is located adjacent to the local landmarks, Satabdhi Resorts, Krishna International School and Krishnapuri residential area at Mouza - Malipada. The Nearest railway station is Bhubaneswar Railway station which is about 10 km from the project site. The Nearest airport is Biju Patnaik International Airport, Bhubaneswar about 6.7 km(aerial) from project site. Present Kism of land is Industrial. Proposed site is well connected to Khandagiri - Chandaka road at distance of 8 km through Gothopatna Road by newly constructed road from the project site. Nearest NH is NH-16-6.23km, SE and AH-45-9.61km. The Nearest sanctuary is Chandaka Wild Life Sanctuary – 3.76km. The Nearest protected forest Bharatpur Protected Forest - 3.16KM.

4. The Geographical coordinates of the project site :

Sl. No.	Latitude	Longitude	Sl. No.	Latitude	Longitude
1	20° 18' 10.41"N	85° 44' 45.91"E	9	20° 18' 16.15"N	85° 44' 53.61"E
2	20° 18' 12.38"N	85° 44' 46.55"E	10	20° 18' 3.29"N	85° 44' 55.36"E
3	20° 18' 14.54"N	85° 44' 47.25"E	11	20° 18' 5.55"N	85° 44' 55.55"E
4	20° 18' 9.28"N	85° 44' 47.41"E	12	20° 18' 12.40"N	85° 44' 57.65"E
5	20° 18' 16.50"N	85° 44' 47.88"E	13	20° 18' 5.67"N	85° 44' 58.12"E
6	20° 18' 7.91"N	85° 44' 49.22"E	14	20° 18' 12.16"N	85° 44' 58.23"E
7	20° 18' 16.51"N	85° 44' 51.57"E	15	20° 18' 16.54"N	85° 44' 58.66"E
8	20° 18' 5.79"N	85° 44' 52.30"E			

5. The project site comes under Bhubaneswar Development Authority.

6. The Proposed building comprises of 10 Nos. of RCC Buildings which are:

1. Common QC, QA, Sales, Factory, Admin etc. (G+9) having total built up area 12000 sqm.
2. Change room, toilets and canteen building (G+9) having total built up area 10000sqm.
3. General products Tablets, Capsules etc. Building (G+4) having total built up area 6000sqm.
4. NUTRA block building (G+4) having total built up area 6000sqm.
5. LVP Block (G+2) having total built up area 9408sqm.
6. Common Indoor utility servicing Building (G+2) having total built up area 937.50 sqm.
7. Fuel Storage Building (G) having total built up area 1125 sqm.
8. Primary Health Care Center (G+1) having total built up area 333.0 sqm.
9. Security Cabin (3 no.s) having total built up area 162 sqm.
- 10 Watchman Cabin (8 no.s) having total built up area 96 sqm.

Total plot area =25 AC

Total Built Up Area =46061.50 SQM

Total FAR Area =46061.50 SQM

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7. **LULC of project site:** Proposed project site comes under Public and Semi Public Zone as per LULC map of Bhubaneswar Development Authority.

Description	Area In Sqm	%
Total Built Up Area	46061.50	45.5
Total FAR Area	45061.50	44.52
Ground coverage	9402.22	9
Open Parking	16852.71	17
Green Belt	20242	20
Open space	13154	13.
Open Area for Future Expansion	27714	27
Internal Road and Other Facilities	13843.59	14
Total Plot Area	101208.06	100

8. **Project Area Statement:**

Sl. No.	Area statement	Gr. Fl. (in m)	1 st fl. (in m)	2 nd fl. (in m)	3 rd fl. (in m)	4 th fl. (in m)	5 th fl. (in m)	6 th fl. (in m)	7 th fl. (in m)	8 th fl. (in m)	9 th fl. (in m)	Bldg.Ht (in m)
1	(a)comm. QC, QA, sales factory admin, etc.(G+9)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	36.0
	TOTAL BUILT-UP-AREA=12000.00SQ.MTS.											
	Area statement	Gr. Fl. In smt.	1 st fl. In smt.	2 nd fl. In smt.	3 rd fl. In smt.	4 th fl. In smt.	5 th fl. In smt.	6 th fl. In smt.	7 th fl. In smt.	8 th fl. In smt.	9 th fl. In smt.	Bldg.Ht. in mts.
	(B) Change room, toilets & canteen bldg.	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	36.0
	TOTAL BUILT-UP-AREA=10000.00SQ.MTS.											
	(c)general products tablet, capsules etc(G+4)	1200	1200	1200	1200	1200	----	----	----	----	----	25.0
	TOTAL BUILT-UP-AREA=6000.00SQ.MTS.											
	(d)NUTRA block bldg. (G+4)	1200	1200	1200	1200	1200	----	----	----	----	----	25.0
	TOTAL BUILT-UP-AREA=6000.00SQ.MTS.											
	(e) LVP block(G+2)	3136	3136	3136	----	----	----	----	----	----	----	18.0
TOTAL BUILT-UP-AREA=9408.00SQ.MTS.												
(f) Common indoor utility serv. Bldg.	312.5	312.5	312.5	----	----	----	----	----	----	----	21.0	

TOTAL BUILT-UP-AREA=937.00SQ.MTS.											
(g) Fuel storage bldg.	1125	----	----	----	----	----	----	----	----	----	7.0
TOTAL BUILT-UP-AREA=1125.00SQ.MTS.											
(h) Primary health care centre (G+1)	166.50	166.50	----	----	----	----	----	----	----	----	7.2
TOTAL BUILT-UP-AREA=333.00SQ.MTS.											
(i) Security cabin (3nos.)(9x6),G	54x3	----	----	----	----	----	----	----	----	----	3.0
TOTAL BUILT-UP-AREA=162.00SQ.MTS.											
(J) Watchman cabin 4x3 each, (8 nos), G	12x8	----	----	----	----	----	----	----	----	----	3.0
TOTAL BUILT-UP-AREA=96.00SQ.MTS.											

9. Justification for Proposed Project is proposed under 8(a) - Building & Construction Project:

- Basically this is a Drug Formulation Unit mainly Nutraceuticals and pharmaceutical formulations and R & D and there is no chemical Production.
- No Chemical synthesis is required in the process of Drug Formulation proposed.
- Since, only physical processes like Binding, Granulation, Blistering, Stripping, Filtration and pH adjustment etc. are involved in this unit. Hence, the proposed project does not come under category - 5(f).
- Due to total built up area of 10 no. of RCC Buildings proposed for pharmaceutical manufacturing & research unit which comprising pharmaceutical formulation & development center is more than 20,000 sqm, so the proposed project is comes under 8(a) - Building & Construction Projects (as per EIA Notification of 2006 and its amendment).

10. Water requirement: The total water requirement is 500 KLD (Drinking + Flushing+ Processing). The total fresh water requirement on daily basis is 400 KLD. The flushing water requirement is 15 KLD. The source of water supply is IDCO water supply.

11. Wastewater details: The project will generate approx. 400 KLD of wastewater out of which flow to STP is 23 KLD and flows to ETP is 375 KLD. The treated wastewater of 276 KLD will be recovered and reused in processing and gardening. The wastewater will be treated in an onsite STP of capacity 50 KLD & ETP of capacity 400 KLD. 276 KLD will be recycled within the project during dry season and 176 KLD treated waste water discharged into municipal in monsoon season.

WATER REQUIREMENT TABLE

Sl No	Towers	Total Units	No of Persons	Domestic water requirement in liters/day	Flushing water requirement in liters/day	Total water requirement in liters/day	Waste water generate in KLD	STP capacity
1	DRINKING WATER FOR ALL BLOCKS							
a	Permanent Employees	10	250	5000	6250	11250	23	50 KLD
b	Temporary Employees	10	315	6300	7875	14175		
2.	PROCESS WATER FOR ALL PROCESSING UNITS							
	Towers	Total Units	RAW WATER	RECYCLED WATER	Total water requirement in liters/day	Waste water generate	ETP capacity	
	Process water	10	375000	100	475000	375000	400000	
	Total			60000				

Total Water Requirement=500 KLD (Drinking + Flushing+ Processing)

Fresh Water Requirement On Daily Basis =400 KLD

Flushing Water Requirement = 15 KLD

Waste Water Generate = 400 KLD out of which flow to STP 23 KLD and flows to ETP 375 KLD

Treated Water Recovered And Reused = 276 KLD recovered and reused in processing and Gardening.

STP Capacity: 1 No. (50 KL)

ETP Capacity: 1 No. (400 KLD)

12. **Rainwater harvesting details:** Total 25 nos. of Rainwater harvesting pits of 56m³ capacity will be constructed at different locations for storage of rain water. The rain water overflow from all Rain water harvesting pit shall be channelized into a central sump. Storm water from this sump can be pumped or connected to City Storm Water drain line near to the project site. 1 no. of recharge well will be provided for storm water recharge to ground water aquifer.
13. **Parking details:** Adequate provision of 16852.71 sqm. (30 % of total FAR Area of pharma unit and as per ODA planning standards) will be kept for car/vehicles parking at the surface parking purpose.
14. **Power Requirement:** The requirement load for the project will be 1500 kVA. The power supply will be supplied by TPCODL, Bhubaneswar. There is provision of 3 nos. of DG sets (3X650 KVA) capacity for power back up. There is a Stand by DG Set of Capacity = 1950 KVA (certified for Retrofit Emission Control Devices (RECDs) applicable to Diesel Genset Engines (Up to 800 kW). The proposed DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion. There is provision for installation of battery operated light system in stair cases to be utilized during fire hazards.
15. **Solar Power Generation:** The Solar power demand for the proposed pharma unit will be 5% of total demand i.e., Solar power 75 KwP. An area of 900 Sq.m is required for roof top area for installation of Solar Photo voltaic power plant.

Solar Water Heating:

20 % of total hot water requirement must be catered through Solar

Thermal system:

Total Water Requirement – 500 KLD

Solar Hot water system for 20 % capacity = 100000 liters, 100 KLD

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Jayak
Environmental Scientist, SEAC

Solar Panel Nos@ 300 Liter/Panel = 334 Nos.

OR

Solar PV System

(Providing emergency lighting for common area (staircase, lift lobby, basement etc.)

SPV Modules of 170 Wp or above for a total capacity 75 KW OR 75000 WATT

SPV Panel Nos.@170 Wp/Panel = 441 Nos.

16. **Solid waste generation:** During the operation phase, waste will comprise domestic waste. Vegetable and Food waste, Food packets, Sludge from STP and Non-Biodegradable waste: Thermocol, Plastic, Cartoon, glass bottles, Paper waste. The Biodegradable and Non-Biodegradable waste disposed through BMC. The recyclable material like thermocol, cartoon boxes, Glass, plastic, newspaper waste is given to the rag pickers for recycling. The sludge generated from the STP will be directly taken by sludge tank to municipal dump yard. Industrial Waste will be sent to Treatment, Storage and Disposal Facility (TSDF). Each components will be collected in separate bins. The disposal of recyclable and non-recyclable waste and other waste will be done through the government approved agency.

Item	Other Item	Quantity per Annum	Unit	Distance from Site (KM)	Mode of Transport	Mode of Disposal	Name of Waste
Hazardous Waste (as per Hazardous and Other Waste Management rules 2016)		1.5	Kilolitre	40	Road	Authorized Recyclers	Used Oil
Paper, Plastic and Other mixed waste		160	Tons	40	Road	Authorized Recyclers	General waste scrap
E Waste		0.6	Tons	40	Road	Authorized Recyclers	Electrical and Electronic Waste
Industrial Waste		4.4	Tons	40	Road	Treatment, Storage and Disposal Facility(TSDF)	ETP Sludge from ETP Process

17. **Greenbelt:** Total green area measures 20242 m² (20 % of the net plot area.) Evergreen tall and ornamental trees have been proposed to be planted inside the premises. The list of trees/plants to be planted is given below.

No. of trees required = 1 tree/80 sq.m. of plot area = 101208/80 = 1265 say 1266 Nos.

Total no. of trees proposed = 1266.

18. **Manpower requirement:** During Construction phase, Permanent Employment- 10 nos & Temporary Employment-100 nos. During Operation phase, Permanent Employment- 250 nos & Temporary Employment- 315 nos.

19. **Traffic Study Report:** Traffic Study has been undertaken by M/s Visiontek Consultant Services Private Limited, Bhubaneswar. LOS found to be "B".

20. **Project cost:** Total estimated cost of the proposed project is Rs. 200 Cr. Cost for EMP is capital cost- 143 Lakh (During construction and operation phase) and the Annual recurring cost is 24 Lakh.

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EMP COST DURING CONSTRUCTION PHASE

S. No.	Description of EMP during Construction Phase	Approximate Cost (Rs in Lacs)	Recurring Cost (Rs in Lacs)
1	Water for Dust suppression	6.5	2
2	Strom Water Management (RWH)	20	-
3	Waste Water management (STP & ETP)	74	-
4	Solid Waste Management including OWC	15	1
5	Air, Noise, Soil, Water Monitoring	-	1.5
6	PPE for workers & Health Care	3.5	0.5
7	Green Belt Development	8	1
8	Others	3	0.5
Total		130	6.5

EMP COST DURING OPERATION PHASE

S. No.	Description of EMP during Operation Phase	Approximate Cost (Rs in Lakhs)	Recurring Cost (Rs in Lacs)
1	Strom Water Management (RWH)	0	2
2	Waste Water management (Sewage Treatment Plant)	0	4.5
3	Solid Waste Management	1	5
4	Green Belt Development	8	3.5
5	Monitoring for Air, Water, Noise & Soil	-	1.5
6	Others	3	1
Total		13	17.5

21. **Environment Consultant:** The Environment consultant **M/s Visiontek Consultant Services Private Limited, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee.

22. The SEAC recommended the following:

A. **The proponent may be asked to submit the following for further processing of EC application:**

- i) Clarification regarding area with relevant supporting land documents showing that the proposed project area and its location doesn't come within the proposed project "THE NEW CITY- Bhubaneswar" of M/s Bhubaneswar Development Authority.
- ii) Tree Enumeration to be submitted from Forest Deptt.
- iii) Sabik RoR with Kisam and Hal RoR with Kisam to rule out involvement of Forest /DLC land in the project.
- iv) DLC certificate from concerned DFO for entire project land to be submitted.
- v) The SEAC observed that there is 3 different figures for total land area in submitted online documents. Submit clarification regarding this discrepancy in total land area and submit revised application form and online submitted documents.

- vi) The total built up area should be limited to 40% of total plot area. Submit the details regarding this and correct figures regarding the total built up area.
- vii) Since, the proposed project is a commercial unit. Therefore, the total parking space provided should be minimum 40% of the total built-up area of the project. Revisit the calculation of parking area and resubmit the correct area statement as per the norms.
- viii) Unit operations involved in the proposed project with detail flow chart/process to get a clear picture on total water demand. The process details of obtaining pharmaceutical grade water from the water proposed to be sourced from IDCO needs to be furnished separately indicating inputs of raw water, production of pharmaceutical grade water used in the process and reject / wastewater quantity.
- ix) Approval copy from IDCO for water supply
- x) Correct water balance, water quality of input water & reject water and note on utilization of the reject water.
- xi) Justify how Zero Liquid Discharge will be attained in the project site.
- xii) Layout of the internal drainage system.
- xiii) The Project Proponent has mentioned that 150KLD will be discharge drain in Monsoon Period. Layout map showing the treated water fallout to nearest public drain and it's distance. Copy of permission of the concerned authority of the drain / sewer to discharge the treated water and storm water from project to the nearby drain.
- xiv) Details of the Effluent Treatment Plant provided along with the water balance. The balance water from the ETP should be reutilized.
- xv) Traffic study report duly vetted by institute of repute.

B. The proposed site shall be visited by Sub-Committee of SEAC to verify the followings

- i) Environmental settings of the project site.
- ii) Verify if the site is a flood prone area.
- iii) Construction activity if any started at the site and extent of construction activity.
- iv) Road connectivity to the project site.
- v) Drainage network at the site along with plan of discharging excess treated sewage water and storm water to the nearest public drain.
- vi) Discharge point for discharge of treated water and distance of the discharge point from the project site.
- vii) Any other issues including local issues.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/s KJST IRON, MANGANESE & BAUXITE MINE FOR EXPANSION IN IRON ORE PRODUCTION CAPACITY FROM 2.80 TO 3.35 MTPA ROM AND BAUXITE (ML AREA: 188.268 HA) PRODUCTION CAPACITY 0.13 MTPA ALONG WITH 3 CRUSHING UNIT AND 6 SCREENING UNITS AT VILLAGES KALMANGA, JALDIHI, SIDIMBA AND TANTIGRAM, TEHSIL: KOIRA, DISTRICT: SUNDERGARH OF SRI PRABODH MOHANTY- EC.

1. This proposal is for Environmental Clearance of M/s KJST Iron, Manganese & Bauxite Mine for expansion in Iron Ore production Capacity from 2.80 to 3.35 MTPA ROM and Bauxite (ML Area: 188.268 ha) production Capacity 0.13 MTPA along with 3 crushing unit and 6 screening units at villages Kalmanga, Jaldihi, Sidimba and Tantigram, Tehsil: Koira, District: Sundergarh of Sri Prabodh Mohanty under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022.
2. The MoEF&CC, Govt. of India vide Office Memorandum (O.M.) no. F. No. IA3-22/10/2022-IA.III [E177258] dated 11/4/2022 has issued guidelines for granting Environmental clearance under para 7(ii)(a) of EIA Notification 2006 for expansion upto 50%, within the existing premises / mining lease area, without additional land acquisition and Environmental Public Hearing. The proponent has requested for 20% increase in Iron Ore production capacity without change in production capacity of Bauxite Ore under above OM of MoEF&CC, Govt. of India.
3. **Category:** This project falls under Category "B" or Schedule 1(a): Mining of Minerals as per EIA Notification dated 14th Sept, 2006 and its amendments.
4. This application has been made under 7(ii) for grant of EC. TOR approval is not required as per EIA notification, 2006 and subsequent amendment.
5. **Public hearing details:** The Public hearing was conducted successfully on 29.09.2021 at 11:00 AM.
6. **List of Environmental Clearances obtained earlier –**

Environmental Clearance for 0.7 MTPA of Iron Ore production capacity and 0.05 MTPA of Bauxite was obtained from MoEF&CC, New Delhi.	28.01.2008
Amendment in EC letter no. J-11015/417/2006-IA.II (M) dated 28.01.2008 w.r.t "deletion of specific condition (ii) Environmental Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, was issued from MoEF&CC, New Delhi.	24.06.2015.
Environmental Clearance for enhanced production of 2.0169 MTPA Iron ore and 0.13 MTPA of Bauxite over an area of 188.523 ha excluding 11.006 ha of forest land was obtained from MoEF&CC, New Delhi.	24.06.2015.
KJST Iron Ore, Manganese and Bauxite Mine (ML Area: 188.268 ha) with expansion in Iron Ore production Capacity from 2.0169 to 2.80 MTPA ROM (2.41 MTPA Iron Ore+0.39 MTPA mineral Reject), Iron Ore waste 1.50 MTPA, Top Soil 0.008 MTPA and Bauxite Production Capacity 0.13 MTPA (ROM),	29.07.2022

Bauxite waste 0.10 MTPA (Total Excavation: 4.538 MTPA) along with 3 crushing unit and 6 screening units at villages Kalmanga, Jaldihi , Sidimba and Tantigram, Tehsil: Koira, District: Sundergarh, Odisha was obtained from MoEF&CC, New Delhi.	
Certified compliance report for the existing EC conditions by Regional officer, MoEF&CC, Bhubaneswar vide file no. 101-844/24/EPE	01.04.2024

7. **List of Statutory Clearances obtained earlier -**

- Mining Lease for Iron & Manganese Ore over an area of 333.063 ha was granted by Govt. of Odisha, Mining & Geology Department vide letter no. 13775/MG. Bhubaneswar on 27.11.1986 in favor of Late S.N. Mohanty. Lease deed was executed on 20.01.1987 for a period of 20 years from 20.01.1987 to 19.01.2007. Lease was inherited by Shri Prabodh Mohanty vide Government of Odisha order dated 11.03.1999 subsequent to the demise of original lessee S.N Mohanty.
- The supplementary lease deed of ML area over 188.268 ha has been executed on 14.07.2016 for 50 years in all total w.e.f. 20.01.1987 to 19.01.2037 as per section 8A of the Mines and Minerals (Development & Regulation) amendment Act 2015 in favor of Shri Prabodh Mohanty, Son of Late S.N. Mohanty (Original Lessee) and also power of attorney of all the legal heirs of Late S.N. Mohanty, At/Po/PS Barbil, DistKeonjhar, Odisha.
- Review of Mining Plan along with Progressive Mine Closure Plan approved by IBM vide their letter no RMP/A/17-ORI/BHU/2020-21/1957 dated 20.10.2020.
- Modified mining plan has been approved vide letter no. MCDR-MiFL0FE/13/2022-BBS-IBM_RO_BBS dated 23.11.2023.

e) **Status Forest Clearance:**

S. No.	Particular	Dated
1.	Temporary working permission (TWP) over already broken upon forest area of 18.814 ha was obtained from MoEF&CC, New Delhi.	12.06.2008
2.	Stage I Forest Clearance was obtained from MoEF (FC Division) for 177.517 ha area.	06.11.2008
3.	Final (Stage-II) Clearance for the diversion of 177.517 ha (101.658 ha + 75.859 ha) of forest land excluding safety zone & area for public use over 11.006 ha was obtained from MoEF&CC, New Delhi.	31.07.2009
4.	Stage-I Forest clearance over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose was obtained from MoEF&CC, New Delhi.	29.06.2017
5.	Final clearance (Stage-II) over 11.006 ha consisting of 9.778 ha safety zone and 1.228 ha area for public purpose was obtained from MoEF&CC, New Delhi.	26.08.2019

8. **Location and connectivity:** KJST Iron, Manganese and Bauxite Mine (ML Area: 188.268 ha) with expansion in Iron Ore production Capacity from 2.80 MTPA to 3.35 MTPA ROM (up to 20%

increase in production, Iron ore + Mineral reject/sub grade), Iron ore waste 0.929 MTPA, Top soil 0.003 MTPA and Bauxite production capacity remaining same 0.13 MTPA (ROM), Bauxite waste 0.027 MTPA (Total excavation 4.439 MTPA) along with 3 crushing units and 6 Screening units at villages Kalmanga, Jaldihi, Sidimba and Tantigram, Tehsil: Koira, District: Sundergarh, Odisha. The geo-coordinates of project site is Latitude: 21°51'03.36" N to 21°51'58.28" N and Longitude: 85°14'00.58" E to 85°15'08.91" E. The project falls under Survey of India bearing Topo sheet no. F45N1, F45N5. The Nearest State / National Highway is NH – 215 (~ 4.5 km in North direction), Nearest Railway Station is Barsuan Railway Station (~12.0 km in NW direction), Nearest Airport-Rourkela Airport, (~50 km in NW direction), Nearest Town/City-Koira (~4.6 km in North Direction). There is no National Park, Wildlife Sanctuary, Biosphere Reserves, Tiger Reserves and Wildlife Corridors etc. within 10 km radius of the mining lease area. There 7 Reserve Forest areas are coming in study area.

9. **Baseline study conducted:** Baseline study was conducted during December 2023 to February 2024 in the core zone (ML area) and buffer zone (10 Km radius) of the project site.
- Ambient Air monitoring:** - Ambient Air Quality was monitored at eight sampling stations. PM_{10} is within range of $55.56 \mu\text{g}/\text{m}^3$ to $84.09 \mu\text{g}/\text{m}^3$, $PM_{2.5}$ is within range of $30.56 \mu\text{g}/\text{m}^3$ to $46.25 \mu\text{g}/\text{m}^3$, SO_2 is within range of $4.25 \mu\text{g}/\text{m}^3$ to $12.31 \mu\text{g}/\text{m}^3$ and NO_x is within range of $13.36 \mu\text{g}/\text{m}^3$ to $22.34 \mu\text{g}/\text{m}^3$.
 - Ground Water quality monitoring:** Ground water quality parameters were monitored at 4 locations. pH is within range of 6.6 – 7.2, Total Hardness – 22– 70mg/l, Chloride - 6.8 – 13.6 mg/l, Fluoride – 0.4-0.65 mg/l, TDS - 26- 104mg/l, Cd <0.001, As <0.001, Hg<0.0005) mg/l,
 - Surface Water quality monitoring:** Surface water quality parameters were monitored at 5 locations. pH is within range of 6.7 – 6.75, Dissolved Oxygen – 6.5 – 6.9 mg/l Biochemical Oxygen Demand – 1.5-2.8 mg/l Chemical Oxygen demand – 5.0-12 mg/l.
 - Ambient Noise monitoring:** Noise level in the study area was monitored at eight sites. Noise levels vary from 43.5 dB(A)- 54.7 dB(A) during daytime and 36.2 dB(A)- 44.32 dB(A) during night time.
 - Soil monitoring:** Soil samples were collected from five locations. The range of pH varied from 4.8 to 6.6, Potassium –201.6 to 295.7 Kg/ Ha, Phosphorous – 13.4 to 17.8 Kg/ Ha, Nitrogen – 201– 314Kg/Ha, Electrical Conductivity- 38 to 98 ms/Cm.
10. **Water requirement:** Total water requirement will be 86 KLD which will be sourced from Rainwater Harvesting ponds within ML area and Teheri Nala. Permission has been obtained from Water Resource Department, Odisha.
11. **Waste water management:** Domestic waste water is being disposed through the 2 nos. of existing STP (30 KLD). All water discharge points at the lease area to external is being regularly monitored. Surface run-off water will be canalized through the seasonal water course to accumulate at the lowermost level, percolate down through the strata and enrich the ground water table. A rain water harvesting pond has been constructed for storage of water and utilization in the mining activities.

12. **Rainwater harvesting details:** A rain water harvesting pond has been constructed for storage of water and utilization in the mining activities. Rain Water harvesting pond (Length 50m, width 30m, height 15m).

13. **Products generated:**

Product	As Per Previous EC	As per present proposal
Iron ore	2.8 MTPA	3.35 MTPA (20% enhancement under 7 (ii) (a))
Bauxite Ore	0.13 MTPA	0.13 MTPA (No enhancement in production)

14. **Mining Plan Details:**

a) **Details of Minerals:**

S. No.	Particulars	Details	
1.	Method of mining	Iron ores	Bauxites
2.	Mineral Reserve	50.67 million tonnes	1.57 million tonnes
3.	Proposed Production	3.35 MTPA	0.13 MTPA
4.	Proposed Life of the Mine	15 year	12year
5.	Bench Height	8m	8m
6.	Working Bench Width:	12m	12m
7.	Ultimate Pit Slope	34	34
8.	Elevation Range	775-935 AMSL	
9.	General Ground Level	670 mRL	
10.	Water Table	Pre Monsoon: 630mRL Post Monsoon: 625mRL	
11.	Ultimate Working Depth	769	
12.	Stripping Ratio Rom/Waste (T:T)	1:0.75	1:0.80
13.	No of working days	306	306
14.	No of working shifts	01	01

b) **Blasting:** Loosening & breaking the in situ strata/rock by blasting is a normal practice followed in mining activity. Blasting will be adopted for loosening of hard rock mass.

c) Details of crushers/screen/beneficiation plant if any with capacity and numbers, water requirement for the project, plantation details, greenbelt details: Existing 3 crushing units (2x 200 TPH and 1 x 250 TPH) and Screen (1 x300 TPH, 2 x 200 TPH and 2 x 250 TPH). Water requirement: 86 KLD.

d) Total 37051 tonnes of top soil has been generated from the inception of mine and 36895 tones of top soil is being used for plantation in different barren land like in orchard, avenue, and safety zone and in dump area and balance 156 tones / 120 m3 of top soil has been stacked in the lease area. During the proposed plan period there will be generation of 3623 cu.m of top soil and will be used for plantation purpose.

e) Land use as per mining plan at the end of plan period and at conceptual stage:

Sl. No	Landuse Pattern	Existing Land use	Proposed Land use (after 5 years)
1	Area Under Mining	36.74	50.88
2	Top Soil stacking	0.02	0.05
3	OB Dump	10.05	16.26
4	Mineral Storage	28.63	31.89
5	Infrastructure	5.04	5.04
6	Road	3.92	4.52
7	Tailing Pond	0	0
8	ETP	0	0
9	Mineral Separation Plant	0	0
10	Others	2.20	3.12
	Sub Total	86.6	111.76
	Untouched	101.668	76.508
	Total	188.268	188.268

Post Mining Land use Plan:

Sl. No.	Name of Mining features	Name of Post Mining Land Use	Area (ha)
1	Quarry	Reclamation /Rehabilitation	97.155
2	Overburden Dump	-do-	19.515
3	Infrastructure, processing plant & Magazine demolished area as well as topsoil & mineral stack removal area etc.	Rehabilitation (Plantation)	24.890
4	Road	---	5.750

5	Effluent Treatment Plant (Retaining wall, garland drain & settling tank)	---	1.654
6	Area for public purpose	Remains as such	1.228
7	Safety zone around magazine	Plantation	0.786
8	Safety zone of 7.5m width along M.L boundary	Plantation	6.412
9	Safety zone of 10m width along the public road	Avenue plantation	2.580
10	Orchard	Fruit bearing trees plantation	0.371
11	Area remains as such	---	27.927
---	Total	---	188.268

15. **Power Requirement & solar power details:** About 770 MWH per annum (~2.5 MW/day) power is being/will be required for illumination and other activities which are being/will be met from the Grid Corporation of Odisha Limited Electric sub-stations have been established as per need. In-house Solar power system of 125 KW has been established in the M.L area for lighting, weigh bridge operation etc.
16. **Solid waste generation:** During the proposed plan period 2286860.00 tons of waste will be generated. The waste generated will be dumped over the existing dump over an area of 9.40 Ha. The waste generated from the mining has been utilized for backfilling followed by reclamation of the mining void.
17. **Mitigation of solid waste produced:** Waste of quantity 16.50 million tonnes will be generated (0.35 Ton Waste per Ton of production), 7.01 million tonnes will be dumped by extending existing dump over an additional area of 11.623 ha., 1.13 million tonnes will be dumped over an area of 4.5 ha. Remaining waste (8.35 million tonnes) will be utilized for backfilling of 19.890 ha.
18. **Greenbelt Development:** Total greenbelt/plantation will be done on 151.709 ha. area, in which green belt will be done on 6.412 ha area on 7.5 m safety zone of lease boundary and 2.58 ha on safety zone of 10 m width along public road. 0.786 Ha. area will be covered under plantation at safety zone around magazine. Plantation will be done on 141.931 ha. The trees will be planted @1500 saplings per ha of land.
19. **Total Employment:**

S. No.	Category of Employment	Existing	Additional	Total (Proposed)
1.	Management & Supervisory	30	08	38
2.	Skilled	115	11	126
4.	Semi-Skilled	240	0	240
5.	Un-Skilled	66	8	74

6.	Total	451	27	478
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20. Project cost:

Sl. No.	Activities	Total Cost	
		Capital	Recurring
1.	Mitigation Measures	1230.87	92.10
2.	Monitoring	78.55	28.00
3.	Others- Digital mapping of the entire lease area once in 5year	10.00	-
4.	EMP Budget for public hearing	138.00	29.00
	Total	1457.42	149.10

21. Eligibility of the Project under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022:

The MoEF&CC, Govt. of India vide Office Memorandum (O.M.) no. F. No. IA3-22/10/2022-IA.III [E177258] dated 11/4/2022 has issued guidelines for granting Environmental clearance under para 7(ii)(a) of EIA Notification 2006 for expansion upto 50%, within the existing premises / mining lease area, without additional land acquisition and Environmental Public Hearing. The compliance of the O.M. dated 11.04.2022 is as below:

Sl. No	Criteria for Projects to be Assessed under para 7 (ii) (a) of EIA Notification	Conditions fulfilled by Proposed Expansion project
1.	The project should have gone through public hearing process, atleast once for the existing EC capacity on which expansion is being sought.	The last public hearing for the project was carried out on 29.09.2021 for KJST Iron Ore and Bauxite Mine (ML Area: 188.268 ha) with expansion in Iron Ore production Capacity from 2.0169 to 2.80 MTPA ROM (2.41 MTPA Iron Ore+0.39 MTPA mineral Reject), Iron Ore waste 1.50 MTPA, Top Soil 0.008 MTPA and Bauxite Production Capacity 0.13 MTPA (ROM), Bauxite waste 0.10 MTPA along with 3 crushing unit and 5 screening units at villages Kalmanga, Jaldihi, Sidimba and Tantigram, Tehsil: Koira, District: Sundergarh, Odisha.
2.	There should not be any change in category of the project due to proposed expansion	There is no change in lease area for this project. However as per MoEF&CC Notification S.O. 1886 (E) dated 20.04.2022 the major mineral mining lease <250.0 Ha will

Sl. No	Criteria for Projects to be Assessed under para 7 (ii) (a) of EIA Notification	Conditions fulfilled by Proposed Expansion project
		be considered under category B1 and appraised at SEIAA.
3.	There is no additional land acquisition of forest land diversion involved for the proposed expansion or there is no increase in lease area vis-à-vis the area mentioned in the EC based on the public hearing held earlier.	There is no proposal for additional land acquisition or forest land acquisition for the proposed expansion proposal
4.	The proposed expansion shall not be more than 50% of the production capacity as mentioned in the prior EC, issued based on public hearing held and the same shall be allowed in minimum three phases.	The proposal is for maximum expansion upto 20% i.e. enhancement in production of iron ore from 2.8 mTPA to 3.35 MTPA and no expansion in existing Bauxite production capacity of 0.13MTPA. The previous EC has been accorded for 2.8 mTPA production of Iron Ore and 0.13MTPA of Bauxite ore.
5.	Predicted environmental quality parameters arising out of proposed expansion/modernization shall be within the prescribed norms and the same shall be maintained as per prescribed norm	The enhancement in production is due to increase in market demand. There will be proposal for additional use of water sprinklers and water fogging system to reduce the dust emission to remain within the standard.
6.	The proposed expansion should not result in reduction in the green belt area as stipulated in the earlier EC, or if the existing ratio of green belt is more than 33%, after expansion it should not reduce below 33%	The proposed expansion proposal will not involve in reduction of green belt area. The green belt area will remain as prescribed in the earlier EC letter.

22. **Environment Consultant:** The Environment consultant **M/s Kalyani Laboratories Pvt Ltd., Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee.

Considering the information furnished and the presentation made by the consultant **M/s Kalyani Laboratories Pvt Ltd., Bhubaneswar** along with the project proponent, the SEAC decided to take the decision on the proposal after receipt of the following from the proponent:

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- i) The MoEF&CC, Govt. of India vide Office Memorandum (O.M.) no. F. No. IA3-22/10/2022-IA.III [E177258] dated 11/4/2022 has issued guidelines for granting Environmental clearance under para 7(ii)(a) of EIA Notification 2006 for expansion upto 50%, within the existing premises / mining lease area, without additional land acquisition and Environmental Public Hearing. The proponent has requested for 20% increase in Iron Ore production capacity without change in production capacity of Bauxite Ore under above OM of MoEF&CC, Govt. of India. The proponent has not submitted complete pointwise compliances (9 points) to the eligibility criteria of the Project under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022. The complete pointwise compliance to the above O.M. dated 11.04.2022 shall be submitted.
- ii) EIA/EMP report has not been prepared based on standard and specific ToRs. Revised EIA/EMP Report shall be prepared based on standard and specific ToRs and submitted.
- iii) Compliance to NEERI recommendations for the existing mining activities.
- iv) Compliance to issues raised by the public during the last public hearing.
- v) Forest clearance status of entire lease area including safety zone and copy of the Forest Clearance obtained for the mining lease.
- vi) An undertaking to complete all the proposed Programmes/activities as assured by the Project Proponent during public hearing within a timeline of 6 months.
- vii) Any modification in Site Specific Conservation Plan if required w.r.t to enhanced production should be consulted and approved by concerned DFO.
- viii) Submit a brief note on the additional pollution load due to enhancement in production capacity and the additional Pollution Control measures adopted.
- ix) Detailed note on the greenbelt enhancement from 10acres to 55acres in layout.
- x) Note on additional water consumption and additional equipments setup due to proposed enhancement.
- xi) Submit a revised land-use breakup plan and modified mining plan.
- xii) Details of the parking area available and no. of additional vehicles to be engaged w.r.t enhancement in production.
- xiii) Submit the additional EMP cost for the Pollution Control measures due to enhancement in production.
- xiv) Brief note on the life of settling pond provided for surface runoff management.
- xv) Submit the Certified Compliance report for the existing EC conditions.
- xvi) Brief note on the amount spent and action taken w.r.t to the issues raised during public hearing and remaining programmes to be completed in future.
- xvii) Justify why Effluent Monitoring System as per the previous EC conditions is not applicable.

ITEM NO. 03

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR BAITARANI RIVER SAND BED, BUDHIKUD, OVER AN AREA OF 12.50 ACRES OR 5.058 HECTARES IN VILLAGE BUDHIKUD UNDER ANANDAPUR TAHASIL OF KEONJHAR DISTRICT OF SRI JOGENDRA BEHERA - EC

1. This proposal is for Environmental Clearance for Baitarani River Sand Bed, Budhikud, over an area of 12.50 acres or 5.058 hectares in village Budhikud under Anandapur Tahasil of Keonjhar District of Sri Jogendra Behera.
2. **Category:** This is a Category – B project which falls under schedule 1(a) - Mining of Minerals as per the EIA Notification 2006 and amendments thereafter.
3. **Mining lease details:** The mining lease of the proposed quarry has been granted to Sri Jogendra Behera, S/o-Shri Gouranga Behera for five financial Years via letter no. 5421 dated 31/05/2021.
4. The mining plan was approved by O/o Joint Director Geology, Keonjhar, Odisha vide letter no.- 945.Dt dated 28/06/2021.
5. This is a new mine and mining lease is an identified sairat source in the DSR page No.2, Sl.no.10, Annexure - I.
6. **TOR details:** Terms of Reference (TOR) was issued by SEIAA, Odisha, vide proposal Letter No. 3681/SEIAA, on dated 27/12/2021.
7. **Public Hearing Details:** Public hearing for the proposed project was conducted on 29.10.2022 at 11.00 AM at Village Budhikuda. Issues raised during public hearing are provisions of livelihood for local villagers in sand mining, repair & maintenance of village road during transportation of sand and support to villagers for development of education & contributions for functions and cultural activities. Budget for CER activities is Rs. 30000.
8. **Location and Connectivity:** The proposed project is located at Khata no-112, Plot No-183 in Village - Budhikuda under Anandapur Tahasil of Keonjhar district; Kisam - Nadi featured in Survey of India Toposheet no. F45O3 bounded by geo coordinates Latitude: N21°20'55.8"to N21°21'6.1" N and Longitude : E86°03'16.1" to E86°03'23.9" E. The Nearest Railway Station is Sagadapata Railway Station 19 Km, SW and Nearest Airport is Biju Patnaik International Airport, Bhubaneswar about 124 km, SW. The Nearest Highway is SH- 53 is 6.0 km SE; NH- 20 is 2.0 km, SW; Nearest distance of Approach Road is 0.2km E; Nearest road Bridge / Railway Bridge is Anandapur Barrage- 18 km; River embankment is 4 km and Electric transmission Pole is 0.6 km Kolimati Village SW. Hadagarh Wildlife Sanctuary is about 26 km ESE.
9. **Total Reserves and Proposed Production** - The proposed production is 17,502cum/Year.

As per Approved Mining Plan		As per Approved Mining Plan
Geological Reserve	Mineable Reserve	Production
1,01,180	87,510	17,502cum/Year

Type of land use	Area in Ha.
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	At present (Existing)	During Plan period
Area under excavation	Nil	4.33
River water	Nil	Nil
Quarry Safety Zone Area	Nil	0.728
Total	5.058	5.058

10. **Replenishment study report details:** Replenishment Study Report has prepared by Drone method. Date of Pre-monsoon Survey is 23.06.2023. Date of Post Monsoon Survey is 18.11.2023. Total 539 nos. of grid points were analyzed during Pre-monsoon and Post-monsoon period to know the average thickness of sand replenished inside the quarry area.
11. Average thickness during Pre-monsoon period measured from contour value of 539 numbers of grid points - 47.10612245m & average thickness during Post-monsoon period is 47.60638219m. Deposit of sand thickness is 47.60638219m - 47.10612245m = 0.50025974 or say 0.5m and 14415.6663 cum of sand has been replenished.
12. **Mining Method:** Open cast manual mining method is proposed for the project with maximum of 17,502 cum/year of production.

Mining Lease	Year	Surface Area in m ²	Thickness in m	Production (m ³)
	A	B	C	D=B*C
Baitarani River Sand Bed, Budhikuda	1st Year	8751	2.0	17502
	2nd Year	8751	2.0	17502
	3rd Year	8751	2.0	17502
	4th Year	8751	2.0	17502
	5th Year	8751	2.0	17502
Total				87,510 cum

13. **Water requirement:** Total water requirement is 5KLD [1KLD - Dust Suppression (on haul roads etc), 2.0KLD - Green Belt Development/ Plantation and 2.0KLD - Drinking/Domestic & Sanitation] for the proposed project. Water requirement will be met from nearby available water resource and drinking water will be sourced from tanker.
14. **Baseline study details:** Baseline study of the study area was conducted during winter season from 1st October 2021 to 31 December 2021 for Baitarani River Sand Quarry, Budhikuda.
- a. **Air:** PM10 levels were ranging from 61.2 to 84.9µg/m³. PM2.5 levels were ranging from 18.5 to 27.2µg/m³. SO₂ levels were ranging from 6.5 to 10.4µg/m³. NO_x levels were found ranging from 9.8 to 15.6µg/m³.

- b. **Noise:** The noise levels varied in the study area during day time from 48.3 dB (A) Leq to 65.7 Leq dB (A). The night time noise level in the study area is in the range of 36.2 dB (A) Leq to 63.1 Leq dB (A).
- c. **Ground water monitoring results:** The ground water analysis for all the 7 sampling stations shows that pH varied from 7.02 to 7.28, total hardness varied from 132 mg/l to 249 mg/l & total dissolved solids varied from 125mg/l to 237 mg/l. The water samples contain chloride 12.26 mg/l to 25.06 mg/l, Ca from 22.14mg/l to 37.61mg/l, Magnesium varies from 2.66 mg/l to 6.20 mg/l.
- d. **Surface water monitoring results:** All samples were colourless meeting desirable norms (<5 Hazen). All samples meet the desirable standards pH ranges from 7.34-7.61. TDS in samples ranges from 35 mg/l to 83 mg/l. all the samples meet the permissible limit of 2000 mg/l. Total hardness in the water ranges from 14 mg/l to 62 mg/l. All the samples meet the permissible limit of 600mg/l. Calcium content in the water ranges from 8.1 mg/l to 29.5 mg/l, all the samples meet the permissible limit of 200 mg/l. Magnesium content in the water ranges from 2.4 mg/l to 11.9 mg/l, all the samples meet the permissible limit of 100 mg/l.
- e. **Soil monitoring results:** All soil samples indicate pH value ranging from 6.89 - 7.72, Organic Matter ranges found BDL in the soil samples. Nitrogen is found BDL and Phosphorous from 183 mg/kg- 254 mg/kg, whereas the Potassium is found to be ranging from 183 mg/kg -254 mg/kg.
15. **Greenbelt Development :** 50 trees per year is proposed for the greenbelt development of the project.
16. **Manpower:** 29 persons is required as manpower for the proposed project.
17. **Project Cost & EMP cost:** Total estimated cost of the proposed project is Rs. 0.5 crore, EMP incurs Capital Cost of Rs. 2, 55,000 and Recurring Cost of Rs.1,50,000.
18. **Environment Consultant:** The Environment consultant **M/s Green Circle Inc., Vadodara, Gujarat** along with the proponent made a presentation on the proposal before the Committee.
- Considering the information furnished and the presentation made by the consultant, **M/s Green Circle Inc., Vadodara, Gujarat** along with the project proponent, the SEAC decided to take decision on the proposal after receipt of the following from the proponent:
- Measurement Error in X, Y, Z axis of Camera location and GCP points in both Pre-monsoon and Post-monsoon.
 - Reduced level of the surface sand, water level and river level.

ITEM NO. 04

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR KALINGADOLA SAND BED, OVER AN AREA 6.639 HA, KHATA NO- 270, PLOT NO- 575 AT- KALINGADOLA, TAHASIL- DIGAPAHANDI, DIST- GANJAM OF SRI PRAVA RANJAN MISHRA - EC

- The Project Proponent didn't present the proposal as the Replenishment Study Report was not submitted. The Proposal was defer to next meeting. The project proponent via E-mail on dated 11/11/2023 has informed that as per the decision of SEAC committee, the proposal shall be

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considered after submission of Replenishment Study Report. Since EDS was not raised, the Project Proponent had requested to facilitate the uploading of the Replenishment Study Report in the portal. The SEAC in its meeting held on dated 20-11-2023 decided to take decision on the proposal after receipt of Replenishment Study Report. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	The proposal shall be considered after submission of Replenishment Study Report. Since EDS has not been raised, the Project Proponent has requested to facilitate uploading of the Replenishment Study Report in the portal as discussed in last meeting. The SEAC decided to take decision on the proposal after receipt of Replenishment Study Report.	Replenishment study report submitted	The replenishment of Sand has been calculated by volumetric survey method and amount of sand deposited in the post monsoon season was calculated to be 41827 cum.

2. The Committee observed the following:

- a) **Measurement error:** 100 m X 100 m grid has been used for the volumetric survey and no details are given regarding accuracy of the measurement. The RLs of the grid points based on which the replenishment levels have been reported are also not mentioned.
- b) Satellite coordinates of the ML area boundary based on DGPS survey has not been reported.
- c) The riverbed sand replenishment study report is prepared by M/s Earth & Environment, Bhubaneswar. As per the above-mentioned report field data for pre and post monsoon periods have been collected in May and November respectively. There is no mention of the dates as well as year of collection of these field data. No information is available regarding surveying instruments used and the process of carrying out the survey.
- d) As per the "Standard operating procedure (SOP) for study of rate of replenishment of sand using drone survey" submitted by ORSAC vide letter No. ORSAC/PR/0951/21/2588 dated 02nd June 2023 the RLs of the center points of 10 m X 10m of the ML area measured for replenishment study is to be reported. (Paragraph 4 page 7).

3. The SEAC in its meeting held on dated **29-12-2023** decided that the proponent shall be called for a detailed presentation for consideration of EC and also to clarify the observation of SEAC at para 2.

4. The Project Proponent gave a detailed presentation in SEAC Meeting dated **10-07-2024**.

5. This proposal is for Environmental Clearance of Kalingadola Sand Bed, over an area 6.639 Ha., Khata No- 270, Plot No- 575 At - Kalingadola, Tahasil - Digapahandi, Dist - Ganjam of Sri Prava Ranjan Mishra.
6. **Category:** As per the EIA notification 2006, and its subsequent amendments, proposed project falls in category B under schedule of Item 1(a) - Mining of Minerals.
7. Mining lease granted by Tahasildar, Digapahandi Letter No.630, Dtd. 05.02.2021 and successful bidder name is M/s. Premex, Plot No- 652, IRC Village, Nayapalli, Bhubaneswar, District Khurda.
8. Mining Plan was approved by Joint Directorate of Geology South Zone, Berhampur, letter No. 1016/SZ, Dtd. 29.07.2020.
9. This is a new mine and Mining lease is an identified sairat source in the DSR page No.- 71, Para Serial No.28.
10. **TOR details:** Terms of Reference (TOR) was issued by SEIAA, Odisha vide proposal letter No. 1350/SEIAA, Dtd. 24.05.2021.
11. **Public hearing details:** Public hearing was held on Dtd. 27.07.2022 and Mouza Kalingadola which is adjacent to Kapileswar Temple, Kalingadola village under Digapahandi Tahasil, Ganjam District. Issues raised during public hearing are control of road dust by blacktopping, excavation of sand from Bada Sahi to NuaSahi along the river bank shall be restricted, transportation of sand will not be allowed in the road passing through the village rather the lessee shall use outside road for it, development of Kapileswar Swamy Temple, construction of proper guard wall /stone pitching of river embankment, local employment, subsidize price of minor minerals, speed of transporting vehicles shall be controlled to prevent accident.
12. **Location and Connectivity** – The proposed project is located at Plot No- 575, Khata No- 270, Village- Kalingadola, under Digapahandi Tahasil of Ganjam District bounded by Latitude: 19° 13' 37.72"N To 19° 13' 55.25"N Longitude: 84° 32' 57.00" E To 84° 33' 16.25" E, bearing Toposheet No: E45A11 & E45A12, Kisam- River, (SH29) - 2.6 km, (NH16)- 21.2 km, Airport Bhubaneswar – 208 km, Water Bodies- Ghodahad Dam- 30.8 km, Mahulia Reserve Forest- 126 km, Road Bridge- 1.6 km, River Embankment- 1.6 Km, Electric Transmission Pole- 2.4 km, Nearest Habitation- 2.5 km. , Distance of Lakhari wild life sanctuary is 23 kms away from the proposed project.
13. **Total Reserves:** As estimated, Geological Reserve is 74335 CUM and Mineable Reserve is 62740 CUM of the proposed project.
14. **Mining method:** Manual method of mining is proposed for the project. Production capacity is 7000 CUM per Annum. Total production in 5 years 35000 CUM. Transportation is through Tipper/Tractor.
15. **Water requirement:** Total water requirement for the proposed project is 3 KLD.
16. **Baseline study details:** Baseline study was conducted during 1st Oct 2021 to 31st Dec 2021.
17. **Greenbelt development:** 100 saplings over an area 0.150 Ha is proposed for greenbelt development for the project.
18. **Manpower:** 18 Nos of manpower are required for the proposed project.

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19. **Project cost:** Estimated cost of the proposed project is 18 Lacs & EMP cost is 1.3 Lacs.

20. **Environment Consultant:** The Environment consultant **M/s Green Circle Inc., Vadodara, Gujarat** along with the proponent made a presentation on the proposal before the Committee.

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

- (i) The SEAC observed that Compliance of Specific ToR conditions is not satisfactory. Hence, submit revise Compliance Report of Specific ToR conditions.
- (ii) PP shall revise the EMP budget as per the requirement of the dust suppression measures.
- (iii) Revisit the calculation of total mineable area after excluding the concave area part of river along with submission of revise sketch map of lease area.
- (iv) The Project Proponent needs to clarify the observations of SEAC on following points (on submitted RSR through ADS):
 - (a) **Measurement error:** 100 m X 100 m grid has been used for the volumetric survey and no details are given regarding accuracy of the measurement. The RLs of the grid points based on which the replenishment levels have been reported are also not mentioned.
 - (b) Satellite coordinates of the ML area boundary based on DGPS survey has not been reported.
 - (c) The riverbed sand replenishment study report is prepared by M/s Earth & Environment, Bhubaneswar. As per the above-mentioned report field data for pre and post monsoon periods have been collected in May and November respectively. There is no mention of the dates as well as year of collection of these field data. No information is available regarding surveying instruments used and the process of carrying out the survey.
 - (d) As per the "Standard operating procedure (SOP) for study of rate of replenishment of sand using drone survey" submitted by ORSAC vide letter No. ORSAC/PR/0951/21/2588 dated 02nd June 2023 the RLs of the center points of 10 m X 10m of the ML area measured for replenishment study is to be reported. (Paragraph 4 page 7).
- (v) The ADS submitted by the project proponent on the replenishment study is seen to be different from that presented by the environment consultant M/s Green Circle Inc., Vadodara, Gujarat in the SEAC meeting held on 10th July 2024. The ADS is stating volumetric survey without furnishing any details of the survey methodology whereas UAV / drone photogrammetry survey was presented in the above-mentioned SEAC meeting. The reasons for this reported change in survey methodology need to be explained.
- (vi) The Project Proponent needs to submit the following distance from proposed quarry:
 - (a) Distance of lease area from existing Baghalati dam.
 - (b) Distance of Kalingadala Megalift scheme of wrong department near Kantajori nalla.
 - (c) Distance of Batrada nalla barrage proposed by wrong department near Bidyadharpur.
 - (d) Distance from Poichandia existing weird.

(e) Distance from existing Kalingadala weird.

ITEM NO. 05

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF CHADHIAPADA SAND QUARRY WITH PROPOSED EXCAVATION OF 5200 CUM/YEAR OF SAND OF TAHASILDAR CHIKITI HAVING AN AREA OF 5.090 HA. LOCATED AT KHATA NO: 631, PLOT NO: 1079 & 1 AT- CHADHIAPADA, TAHASIL- CHIKITI, DISTRICT- GANJAM OF TAHASILDAR, CHIKITI – EC

The Project Proponent didn't attend thrice the SEAC meetings held on dated 20-10-2023, 21- 11- 2023 and 10-07-2024. The SEAC decided to return the proposal to SEIAA.

ITEM NO. 06

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S NEWON GREENTECH LLP FOR COMMON BIO-MEDICAL WASTE TREATMENT FACILITY PROJECT AT KHATA NO. 23/29, PLOT NO-73 & 73/477- 480, BUDHIPANI, P.S.: RAMPUR, BLOCK/ TAHASIL - REDHAKHOL, DISTRICT - SAMBALPUR OF SRI SWAYAM PRAKASH JENA – 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 EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference for environmental clearance for M/s Newon Greentech LLP for Common Bio-Medical Waste Treatment Facility Project at Khata No. 23/29, Plot No-73 & 73/477-480, Budhipani, P.S.: Rampur, Block/ Tehsil: Redhakhol, District: Sambalpur of Sri Swayam Prakash Jena.
3. **Category:** The proposed project of setting up of Common Biomedical Waste Treatment Facility (CBWTF) falls under Category B1, schedule 7(da) - Common Biomedical Waste Treatment Facility, as per the EIA notification, 2006 and after the subsequent amendments.
4. **Location and connectivity:** The proposed site is located at Khata No. 23/29, Plot No - 73 & 73/477-480, Budhipani, P.S. - Rampur, Block/ Tahasil - Redhakhol, District - Sambalpur, State - Odisha. The project is a part of the Survey of India Toposheet No. F45M8 & F45S55. The geo-coordinates of the project is - Latitude 21° 01' 27.00" N and Longitude 84° 24' 41.11" E. Nearest road is NH-55 at 4.6 km in NE direction. Nearest Railway Station is Bamur railway station at 6.7 km in ESE direction. Nearest airport is Sambalpur Airport at 73.8 km towards NW direction. Nearest Habitation is Village Budhipani at 1.7 km in E direction. Nearest town is Redhakhol Town - 9 km towards NW. Nearest Water Body is Hogri Nala at 1.65 km in SSW direction.
5. **Land Use –** The total area is 0.42 Ha (1.04Acre)

S. No.	Particulars	Area (m ²)
1.	Plant Facilities (Waste storage rooms, autoclave, incinerator, shredder etc.)	1142.71
2.	Green Belt (33%)	1,389.08
3.	Facilities for Admin Lab, Stores, Shed, Vehicles wash area etc.	418.06
4.	Effluent Treatment Plant	41.85
5.	Parking area	111.48

6.	Internal road & Culverts	1,105.55
Total		4,208.73

6. **Baseline study period:** Baseline monitoring period is from March-2024 to May - 2024.

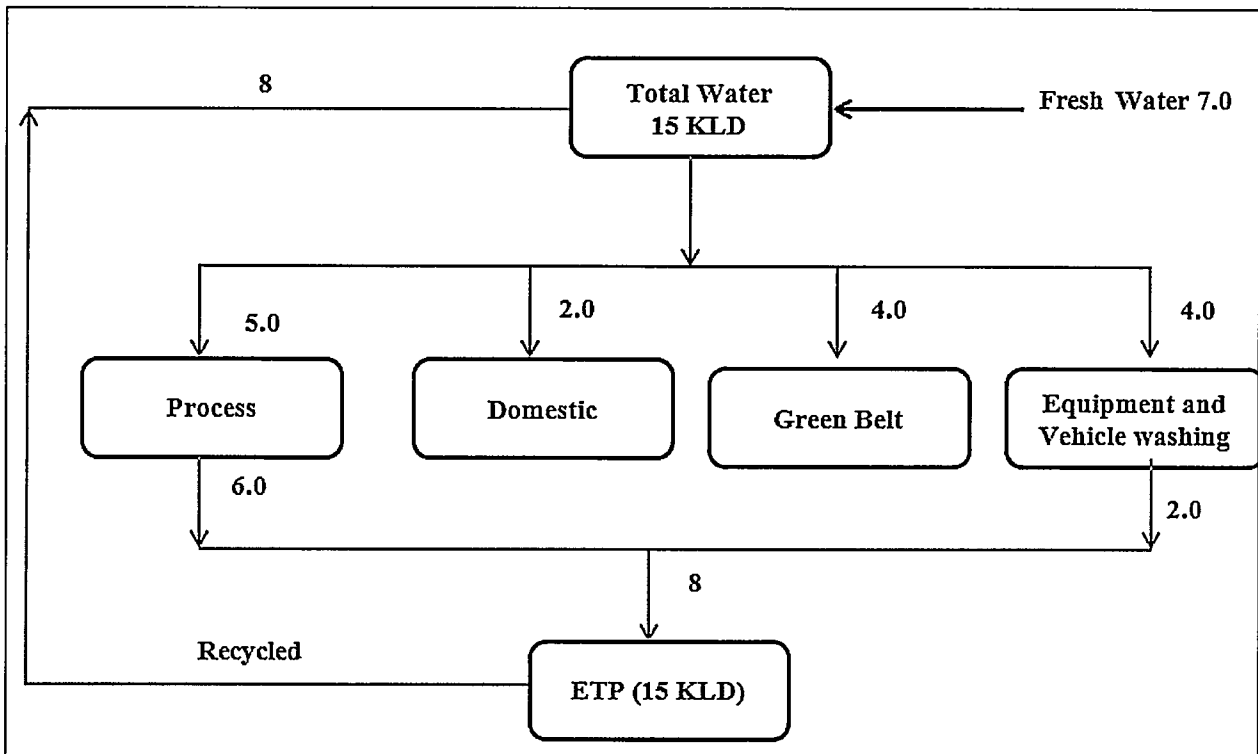
7. **Proposed Plant Capacity –**

Name of equipment	Rated Capacity	Operational hr/day	Remarks
Incinerator	500 Kg/Hr	16	Installed separately for process in Yellow Colour bag for BMW
Autoclaves	400 kg	16	Installed separately for process in Red, White, Blue Colour bag for BMW
Shredders	200 kg/hr	10	For Shredding from autoclave/ disinfected wastes

8. Major HCEs in the Area are:

Name	Approx. Distance (km)	No. of Beds	Exp. Waste (kg/day)
Sambalpur	75	1600	800
Bolangir	120	759	400
Angul	85	1400	700
Boudh	33	369	170
Sonepur	75	425	220

9. **Water requirement:** Total water requirement is 15 KLD which will be sourced from Redhakhol RWS Department. Waste water generated will be treated in ETP of 15 KLD capacity.



10. **Power requirement:** Total power requirement for the project is 120 kVA which will be sourced Tata Power Central Odisha Distribution Limited (TPCODL)
11. **Rainwater Harvesting details:** 1 RWH tanks of 320 m³ capacity will be used having dimensions 8 m x 8 m x 5 m (*b*d).
12. **Green belt Development:** 0.14 ha. of land and 350 saplings are provided as green belt cover.
13. **Manpower:** Total about 35 persons are proposed to be hired for plant operations including officers, skilled and unskilled workers.
14. **Solid Waste generation:** Ash - 100 - 150 kg/day and Other Residues - 10 - 20 kg/day
15. **Mitigation of waste produced** - Ash residue from high temperature incineration and other material residues from the process shall be collected into containers / bags and shall be stored at temporary ash storage shed and shall be disposed into the secured landfill periodically after sufficient accumulation. All hazardous waste shall be strictly disposed as per Hazardous & Other Waste (Management & Trans-boundary movement) Rule, 2016.
16. **Project cost:** The estimated cost of the project is approx. 7.5 Crores.
17. **Environment Consultant:** The Environment consultant M/s Grass Roots Research & Creation India (P) Ltd., Noida along with the proponent made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant M/s Grass Roots Research & Creation India (P) Ltd., Noida, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per Annexure – A for conducting detailed EIA study

- i) Revised water balance to be submitted.
- ii) Precautions to be taken for collection of Bio Medical Wastes.
- iii) Details of equipments and their capacity to be installed in Project.
- iv) Permission from the panchayat and ROW documents for connecting land from project site to nearest approach road through the nearby village area.
- v) Details of amount of waste to be generated from the hospitals on the per day basis rather than calculating on number of beds.
- vi) Aerial distance certificate from State Pollution Control Board, Odisha from the nearby Bio-Medical Waste Treatment Facilities.
- vii) Precautionary measures to be undertaken to avoid contamination of wastes or due to surface runoff from project site to the nearby water reservoir.
- viii) Standard Operating Protocol starting from collection point of waste generation/raw material, segregation, transportation, treatment and disposal of waste generated from plant.
- ix) The baseline monitoring should also include biological parameters and baseline study should also cover the monsoon period.
- x) The storage sheds provided for the biomedical waste should be covered.
- xi) Provide a buffer zone of 5km around the proposed site.
- xii) A write up on the amount of segregated waste to be handled at the project site monthly and annually.
- xiii) Avoid using transport route passing through the village.
- xiv) SOP/measures to be followed for safety and health issues (due to handling of hazardous waste materials) of employees and local people of nearby villages.
- xv) Area details to be cover for collection of waste materials/raw materials.
- xvi) Agreement papers or MoU with Common Hazardous Waste Treatment and Disposal Facility for disposal of waste generated and its management.
- xvii) Category wise list of wastes to be handled.

ITEM NO. 07

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S SJ ENVIRONMENTAL SOLUTIONS PVT.LTD FOR COMMON BIO-MEDICAL WASTE TREATMENT FACILITY PROJECT AT KHATA NO726/482, PLOT NO.1071, VILLAGE - MALIPADA, TEHSIL KHURDA, DISTRICT-KHURDA OF SRI SWAYAM PRAKASH JENA – 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 EIA Notification, 2006 and amendment thereafter.

2. This proposal is for Terms of Reference for environmental clearance for M/s SJ Environmental Solutions Pvt.Ltd for Common Bio-Medical Waste Treatment Facility Project at Khata No726/482, Plot No.1071, Village - Malipada, Tehsil Khurda, District-Khurda of Sri Swayam Prakash Jena.
3. **Category:** The proposed project of setting up of Common Biomedical Waste Treatment Facility (CBWTF) falls under Category B1, schedule 7(da) - Common Biomedical Waste Treatment Facility, as per the EIA notification, 2006 and after the subsequent amendments.
4. **Location and connectivity:** The proposed site is located at Khata No - 726/482, Malipada, GP: Kanapur, Block/ Tahasil - Khurda, Dist - Khurda, State - Odisha. The project is a part of the Survey of India Toposheet No. F45T12. The geo-coordinates of the project are - Latitude 20° 4' 57.71" N and Longitude 85° 33' 23.14" E. Nearest road is NH- 16 at 0.36 km in SE direction. Nearest Railway Station is Dhauli Muhan Railway Station at 5.1 km in E direction. Nearest airport is Biju Patnaik International Airport at 31.5 km towards NE direction. Nearest Habitation is Malipada Village at 0.5 km in E direction. There is no Wildlife Sanctuary near the project site. Nearest Water Body is Mandakini River is at 6.9 km towards E direction.
5. **Land Use –** The total area is 2.03 Acre (0.82 ha.)

S. No.	Particulars	Area (m ²)
1.	Plant Facilities (Waste storage rooms, autoclave, incinerator, shredder etc.)	1825.8
2.	Green Belt (33%)	2,710.9
3.	Facilities for Admin Lab, Stores, Shed, Vehicles wash area etc.	1,707.39
4.	Effluent Treatment Plant	50.00
5.	Parking area	207.2
6.	Internal road & Culverts	1,713.75
Total		8,215.04

6. **Baseline study period:** Baseline monitoring period is from March-2024 to May - 2024.

7. **Proposed Plant Capacity –**

Name of equipment	Rated Capacity	Operational hr/day	Remarks
Incinerator	1000 Kg/Hr	16	Installed separately for process in Yellow Colour bag for BMW
Autoclaves	800 kg	16	Installed separately for process in Red, White, Blue Colour bag for BMW
Shredders	400 kg/hr	10	For Shredding from autoclave/ disinfected wastes
ETP	15KLD		

8. Major Bedded HCEs in the Area are:

Name	Approx. Distance (km)	No. of Beds	Exp. Waste (KG/Day)
Kendrapada	102	1000	1000
Nayagarh	47	1600	1600
Jagatsinghpur	68	900	900
Khorda	13	4500	4500
Puri	41	2000	2000

9. **Water requirement:** Total water requirement is 20 KLD which will be sourced from Khurda Municipal Corporation through pipeline. Waste water generated will be treated in ETP of 15 KLD capacity.

Table: Total Water Requirement

Sl.no	Unit Process	Quantity of Water Used (KLD)
1	Process Water	7.0
2	Domestic Purposes	2.0
3	Green belt	6.0
4	Equipment & Floor Washing	5.0
	TOTAL	20

10. **Power requirement:** Total power requirement for the project is 120 kVA source from Odisha CECU Ltd.
11. **Rainwater Harvesting details:** 1 RWH tanks of 660 m³ capacity will be used having dimensions 10 m x 10 m x 6.6 m (l*b*d).
12. **Green belt Development:** 0.27 ha. of land and 1250 saplings are provided as green belt cover.
13. **Manpower:** Total about 60 persons are proposed to be hired for plant operations including officers, skilled and unskilled workers.
14. **Solid Waste generation:** Ash - 300 - 450 kg/day and Other Residues - 10 - 20 kg/day
15. **Mitigation of waste produced** - Ash residue from high temperature incineration and other material residues from the process shall be collected into containers / bags and shall be stored at temporary ash storage shed and shall be disposed into the secured landfill periodically after sufficient accumulation. All hazardous waste shall be strictly disposed as per Hazardous & Other Waste (Management & Trans-boundary movement) Rule, 2016.
16. **Project cost:** The estimated cost of the project is approx. 10 Crores.
17. **Environment Consultant:** The Environment consultant **M/s Grass Roots Research & Creation India (P) Ltd., Noida** along with the proponent made a presentation on the proposal before the Committee.
18. The SEAC observed that the proposed site is located within 75 K.M. from another proposed CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria.

After detailed discussion, the SEAC recommended that the SEIAA, Odisha may consider to seek a clarification from CPCB, Delhi if this proposal can be considered for issue of ToRs as the proposed site does not meet the siting criteria of CPCB guidelines for CBWTF.

CONSIDERATION OF OLD PROPOSAL (ADS RECEIVED):

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S VCI CHEMICAL INDUSTRIES PRIVATE LIMITED FOR PROPOSED 1,00,000 TPA GREEN FIELD COAL TAR DISTILLATION PLANT AT KALINGANAGAR INDUSTRIAL AREA, DISTRICT-JAJPUR OF SRI SHUBHAM GUPTA - EC

1. This proposal of Environmental Clearance of M/s VCI Chemical Industries Private Limited for Proposed 1,00,000 TPA green field Coal Tar Distillation Plant at Kalinganagar Industrial Area, District-Jajpur of Sri Shubham Gupta.
2. **Category:** As per EIA Notification, 2006 and its subsequent amendments, the proposed project falls under Category B in Schedule in item 4 (b) - (ii) Coal Tar Distillation.
3. **ToR Details:** Terms of Reference was issued by SEIAA vide letter no. SIA/OR/IND2/406839/2022 dated 28.04.2023.
4. **Public Hearing Details:** The Public hearing was conducted on 29.11.2023 at Danagadi Bhavan, Mauza- Trijanga under Jajpur Police Station, District- Jajpur, Odisha. Total budget of Rs. 92.93 lakhs has been proposed for compliance of issues raised during Public Hearing mainly – Education, Health Care, Drinking Water, Environment, Livelihood and Infrastructure.
5. **Location and Connectivity:** The project is in Mouza- Jakhapura & Kachharigaon, Thana- Dharmasala, Tehsil- Danagadi at District- Jajpur, Odisha. The proposed site is bounded by Latitude: 20°55'50.10"N to 20°55'45.56"N & Longitude: 86°2'56.32"E to 86°2'47.25"E bearing Topo Sheet No.: F54N16, F45O4, F45T13 & F45U1. The kissam of the land is "Patita" as per letter from IDCO. The project site is easily accessible through the NH-200 which passes 4.01 km from the site in the SW direction and Jakhapura GSY Road is at 0.45 Km, N. The nearest Railway Station is Jakhapura Junction which 2.05 km in the SE-direction of project site. Nearest airport is Biju Patnaik International Airport is at 78.75 Km, SSW) Nearest town/Habitation - Jakhapura (0.32 km, NE) and Danagadi (5.36 Km, NE). Nearest River/Canal - Seasonal Nala (0.05 km, West), Ganda Nala (3.43 km, East), Brahmani River (4.63 km, South). Forests in the Vicinity are Hill Forest is at 1.76 km, NW and Danagadi PF is at 5.09 km, NNE. No national parks, Wildlife Sanctuaries, Biosphere Reserves are present within 10 km radius. The Project site comes under Seismic zone Zone – III (moderate damage risk zone) [as per IS 1893 (Part-I): 2002].
6. The proposed land comes under IDCO land bank and has been leased through DSWCA from IDCO to VCI Chemical Industries Pvt. Ltd. for a period of 63 years vide letter no. IDCO/HO/P&A/LA- E/ 8229/2021- 22782 dtd. 06/09/2022.
7. **Baseline study details:** Baseline Study was conducted in pre-monsoon season 2022 (March to May 2022), 8 monitoring station for Air quality & Noise level monitoring, 4 sampling location for ground & surface water quality monitoring and 4 stations for soil quality has been monitored. The results are well within limit of statutory norm.
 - a) **Air quality:** The AAQ analysis indicates that the concentration of PM₁₀ varied from 78.3 to

57.5 µg/m³, PM_{2.5} from 45.3 to 28.8 µg/m³, SO₂ from 21.6 to 6.5 µg/m³, NO_x from 29.3 to 10.1 µg/m³, C₆H₆ - <4.0 & BaP - <0.5.

- b) **Surface water quality:** Color - <5.0, pH values varied between 7.7 to 7.5, Turbidity – 3.4 to 4.5, BOD – 3.3 to 1.6 mg/L, COD – 16 to 9.5 mg/L, Cyanide – ND, Oil and Grease – 1.0 to 1.8 mg/L, Phenolic Compounds C₆H₅OH – BDL, Polyaromatic Hydrocarbons - BDL.
- c) **Ground water quality:** pH values varied between 7.69 to 7.52 , Electrical Conductivity – 39.8 to 48.6 µS/cm, Chloride – 33.6 to 27.5 mg/L, Alkalinity – 73 to 54 mg/L, TDS – 187 to 172 mg/L.
- d) **Noise study:** Noise level varies from 59.9 to 41.6 dB (A) during Day time and 45.2 to 35.9 dB (A) during Night time, which are below the prescribed limits of CPCB.
- e) **Soil quality:** pH – 6.21 to 5.6, Conductivity – 312 to 56 µS, Organic Carbon – 1.32 to 1.1 %, Potassium – 805 to 662 mg/kg, Nitrogen – 41.2 to 30.6 mg/kg.

8. **Plant Configuration:** The unit configuration and capacity of Proposed project is given below:

Unit	Output	Quantity	
Tar Distillation Unit	Light Oil	500	TPA
	Naphthalene Distillation Unit	10260	TPA
	Anthracene-1	15900	TPA
	Anthracene-2	8000	TPA
	Med. Temp. Pitch	55000	TPA
De-Phenolization Unit	De-phenolic Oil	1552	TPA
Phenol Refining Unit	Refined Phenol	756	TPA
	O-Cresol	200	TPA
	M & P Cresol	244	TPA
	Tech. Gr. Cresol	528	TPA
Pitch modification Unit	Modified Pitch	40750	TPA
	Liquid Modified Pitch	10400	TPA
	Flash Oil	3850	TPA
Naphthalene Distillation Unit	Tech. Naphthalene	3260	TPA
	Refined Naphthalene	6300	TPA
	Naphthalene Oil	700	TPA
	Low Naphthalene Wash Oil	8880	TPA
Oil Mixing unit	Fuel Oil	23382	TPA
	Carbon Black Oil	25000	TPA

9. **Raw Material, Fuel and Energy Requirements :** The details of the raw material requirement for the Proposed project along with its source and mode of transportation is given as below:

Particulars	Quantity in TPA	Source	Mode of Transport
Raw Materials			
Dehydrated Coal Tar	1,00,000	Local Steel Plants (Coke ovens, coal Gasifiers)	Road/Railway
Crude Phenol	1,217	Local	Road
Crude Naphthalene	2,000	Local	Road

Medium Temperature Pitch	20,000	Local	Road
Consumables			
Sodium Hydroxide (30%)	743	Local	Road
Sulphuric acid (98%)	108	Local	Road
Sodium Chloride	36	Local	Road
Conduction Oil	50	Local	Road
Solid Pitch	20,000	Local	Road

10. **Fuel Requirement:** Natural gas 560 Metric Million British Thermal Unit per day (MMBTY/D) is required, will be sourced from BPCL (Bhubaneshwar), and will be transported via Pipeline.
11. **Water Requirement:** The total water requirement is 376 KLD. The proposed make-up water will be sourced through IDCO pipeline supply. Water will be allocated by Water Resources Department vide letter no. PD-II/SLSWCA/GIL, dated 27.02.2024.
12. **Wastewater details:** The capacity of ETP is 60 KLD & capacity of STP is 15 KLD. Thw domestic wastewater will be used in Raw Material yard sprinkling, dust suppression & greenbelt plantation.
13. **Power Requirement:** Power requirement will be 2500 KWH or 2.5 MW from Tata Power Northern Odisha (TPNODL).
14. **Solid and Hazardous Waste Details:**

Sl. No.	Type of Waste	Quantity (TPA)	Source	Management/ Disposal
1.	Residual Oil	0.5	Process / ETP	Will be sold to SPCB Authorized Re-processor
2.	Spent Oil	1.0	Process	Will be sold to SPCB Authorized Re-processor
3.	Oil Sludge	0.4	Process	Will be sold to SPCB Authorized Coprocessor/ Cement Kiln/ CHWTSDF
4.	Sludge/salt from ETP/ZLD	210	ETP / ZLD	CHWTSDF
6.	Oily Cotton Waste	0.4	Cleaning	Will be sold to SPCB Authorized Coprocessor/ Cement Kiln/ CHWTSDF
7.	Discarded Container & Barrel	5	Various Packing material	Will be sold to SPCB Authorized Re-processor
8.	Plastic Waste	0.4	Various Packing	Will be Sent to Approved recycler
9.	Oily Cotton Waste /Leather Hand Gloves / Cotton Hand Gloves	0.1	Process	Will be sold to SPCB Authorized Coprocessor/ Cement Kiln/ CHWTSDF
10.	Waste Insulation Material	0.4	From Plant	CHWTSDF

11.	E-Waste	0.2	From plant equipment's	Will be sold to SPCB Authorized Re-processor
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15. Greenbelt Development:

- Greenbelt/plantation will be done in 2.95 ha, 33.18% of the total plant area.
- A three-tier plantation is proposed comprising of an outermost belt of taller trees which will act as a barrier.
- Local plant species will be preferred as per the CPCB guidelines in consultation with the Local Forest Department.
- Greenbelt development along the plant boundary attenuates noise level, arrests dust, and improves the surrounding environment.
- 2500 number of trees per Hectare will be planted for the greenbelt development. So total no. of trees will be Planted for greenbelt area = 2500 x 2.95 Ha. = 7,375 No. of Tress.

16. Project Cost: The capital cost of the project is Rs. 203.72 Crores and capital cost for Environmental Protection Measures is proposed as Rs. 14.42 Crores, which will 7.07 % of total project cost. Recurring Cost/annum for Environmental Pollution Control Measures Rs. 2.165 crores.

17. Employment Generation: Direct Employment generation during operation phase will be 167, Period of employment 330 days. Indirect Employment generation will be around 250. Employment generation during Construction Phase will be around 600.

18. Environment Consultant: The Environment consultant **M/s. Visiontek Consultant Services Private Limited, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee.

19. The SEAC in its meeting held on dated 09-05-2024 recommended the following:

A. The proponent may be asked to submit the following for further processing of EC application:

- a) Details of hazardous waste management practice followed and Permission obtained for its disposal.
- b) Revised Water balance chart showing the input fresh water and process water utilization at different stages.
- c) Describe the process with layout for wastewater treatment plan followed and stepwise methods for removal of effluents.
- d) Detailed process with layout for utilization of treated water in the plant and how (Zero Liquid Discharge) ZLD will be attained.
- e) Treatment methods followed for separation of organic wastes like phenols, cyanides and ammoniacal nitrogen.

- f) Provision of Surface Runoff Treatment System (SRTS) facility for treatment of run-off generated.
- g) Submit the license copy of the technology provider for APC devices and its working mechanism flowchart.
- h) License copy for storage of explosives/inflammable raw materials.
- i) Submit the design & layout of the tanks, dyke and its distance from the project site.
- j) Submit supporting documents/MOU with the raw material suppliers.

B. The proposed site shall be visited by Sub-Committee of SEAC to verify the followings

- a) Environmental settings of the project site.
- b) Construction activity if any started at the site and extent of construction activity as there is complaint received for construction work without EC.
- c) Road connectivity to the project site.
- d) Drainage network at the site.
- e) Discharge point for discharge of treated water and distance of the discharge point from the project site.
- f) Any other issues including local issues.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Details of hazardous waste management practice followed and Permission obtained for its disposal.	M/s VCI Chemical will obtain Hazardous waste authorization as per hazardous waste rule 2016. Details for the same is attached as Annexure-1 .	-
2.	Revised Water balance chart showing the input fresh water and process water utilization at different stages.	The water consumption for the proposed plant with balance diagram is attached as Annexure-2 .	-
3.	Describe the process with layout for wastewater treatment plan followed and stepwise methods for removal of effluents.	Process with Layout of wastewater treatment plant with step wise methods & design of ETP is attached as Annexure-3 .	-
4.	Detailed process with layout for utilization of treated water in the plant and how (Zero Liquid Discharge) ZLD will be attained.	Details process with layout for utilization of treated water in the and how (zero liquid discharge) ZLD is attached as Annexure-4 .	-
5.	Treatment methods followed for separation of organic wastes like phenols, cyanides and ammoniacal nitrogen.	Stepwise description of the process used for treating waste water and separation of Organic waste like Phenols, Cyanide and Ammoniacal Nitrogen is attached as Annexure-3 .	-

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
6.	Provision of Surface Runoff Treatment System (SRTS) facility for treatment of run-off generated.	Surface Runoff Treatment System (SRTS) facility with Step wise process and Calculation is attached as Annexure-5 .	-
7.	Submit the license copy of the technology provider for APC devices and its working mechanism flowchart.	Undertaking for the technology provider for APC devices and its working mechanism flowchart is attached as an Annexure-6 .	An undertaking has been submitted for the license copy of the technology provider for APC devices and its working mechanism flowchart.
8.	License copy for storage of explosives/inflammable raw materials.	Undertaking for the storage of explosive/inflammable raw materials is attached as Annexure-7 .	An undertaking has been submitted for License copy for storage of explosives/inflammable raw materials.
9.	Submit the design & layout of the tanks, dyke and its distance from the project site.	Reply: Design & layout of the tanks, dyke and its distance from the project site is attached as Annexure-8 .	-
10.	Submit supporting documents/MOU with the raw material suppliers	MOU with the raw materials suppliers is attached as Annexure-9 .	-

25. The proposed site was visited by the sub-committee of SEAC on **19.06.2024**. Following are the observations of the sub-committee:

- a) The site is allotted by IDCO and an approach road of 15 mt is under construction to meet the main road. No construction activities taken up.
- b) The PP explained the layout and informed that IDCO will construct the road side drain. As such they will not discharge any effluent.
- c) PP was asked to submit the following if not submitted:
 - i) Permission for discharge of excess treated water and storm water to the proposed drain along at road side. They need to take the permission before plant operation.
 - ii) All statutory permission including NOC from airport authority, fire, structure and stability etc.
 - iii) Greenbelt layout with minimum 20% and start plantation activities now.
 - iv) All materials (raw materials and products etc.) to be stored covered with retaining walls to avoid contamination with storm water.
 - v) All other points asked during presentation to be complied.

Considering the information furnished and the presentation made by the consultant, **M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar** along with the project proponent, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – B** in addition to the following specific conditions.

Proceedings of the SEAC meeting held on 10.07.2024

T Nayak
Environmental Scientist, SEAC

- i) The proponent shall obtain permission from concerned authority for discharge of excess treated water and storm water to the proposed drain along at road side before operation of plant.
- ii) All statutory permission including NOC from airport authority, fire, structure and stability etc. shall be obtained before plant operation.
- iii) Greenbelt plantation activities shall be carried out during the construction activity.
- iv) All materials (raw materials and products etc.) shall be stored under covered shed with retainingwalls to avoid contamination with storm water.
- v) License shall be obtained for storage of explosives/inflammable raw materials before plant operation.
- vi) Trees located within the project area shall be transplanted to alongside the boundary green development area.
- vii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report. The PP to implement advanced membrane technology processes as elaborated in the submitted ADS for ensuring zero liquid discharge by reutilising all the treated process effluents during the operational phase of the project.
- viii) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.



MEMBER SECRETARY, SEAC

TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT FOR DEVELOPMENT OF COMMON BIOMEDICAL WASTE TREATMENT AND DISPOSAL FACILITY (TOR).

1. Executive summary of the project shall be prepared highlighting the objectives of the proposal, use of resources, justification, etc. In addition, it should provide EMP.
2. Justification for selecting the proposed capacity of the incineration and other facilities.
3. Establishment of the facility as per Bio-medical Waste Management Rules, 2016.
4. Land requirement for the facility including its break up for various purposes, its availability and optimization.
5. Details of proposed layout clearly demarcating various activities such as security,
6. Waste Storage Rooms, Waste Treatment Equipment Rooms/Areas, Treated Waste Storage Room, Pollution Control Devices like APCS and ETP, ash storage/disposal area, vehicle washing areas, and others such as admin area, worker's room, health centers, greenbelt, etc.
7. Details on collection and transportation of Bio Medical Waste from health care establishments. No. of vehicles and feature of vehicles, etc.
8. Details of waste storage facilities/rooms.
9. Details of the treatment equipment's capacity and make.
10. Details of the incineration system - a statement on the compliance to the CPCB guidelines for common bio medical waste incinerators in respect of waste feed cut-offs, operating parameters of combustion chambers, flue gas cleaning, ash handling, etc.
11. Details on fuel requirement for incineration.
12. Details on flue gas emissions discharge through stack and proposed pollution control technologies.
13. Details on residue/ash generation and management.
14. Details of waste heat utilization, if any.
15. Details of wastewater management.
16. Details of the proposed overall safety and health protection measures.
17. Details of source of water and power to the facility.
18. Details of the existing access road(s)/walkways to the designed operations in the site and its layout.
19. Location of the incineration facility and nearest habitats with distances from the facility to be demarcated on a toposheet (1: 50000 scale).
20. Land use map based on satellite imagery including location specific sensitivities such as national parks / wildlife sanctuary, villages, industries, etc.
21. Topography details.

22. Surface water quality of nearby water bodies.
23. Details of proposed groundwater monitoring wells, locations, frequency of monitoring, parameters, etc.
24. Action plan for the greenbelt development in accordance to CPCB published guidelines.
25. Details of pollution control technologies and online monitoring equipments.
26. Details of monitoring of pollutants at source -performance of the incinerator. including operating hours, fuel consumption, operating parameters (Combustion chamber - temperature, pressure, Stack temperature, total particulate matter, HCl, NO_x as per Bio-medical Waste Management Rules, 2016.
27. Stack and fugitive emissions may be monitored for SPM, HCL & NO₂ as per Bio-medical Waste Management Rules, 2016.
28. Specific programme to monitor safety and health protection of workers.
29. Details of Administrative and technical organizational structure.
30. EMP devised to mitigate the adverse impacts of the project should be provided along with item-wise cost of its implementation (Capital and recurring costs).
31. Details of the emergency preparedness plan and on-site & off-site disaster management plan and on-site & off-site disaster management plan.
32. Details of measures to be taken for control of air pollution including measures to control emission of Dioxin and Furan.
33. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
34. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
35. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
36. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
37. **The prescribed TOR would be valid for a period of four years for submission of the EIA/EMP report.**

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR M/S VCI CHEMICAL INDUSTRIES PRIVATE LIMITED FOR PROPOSED 1,00,000 TPA GREEN FIELD COAL TAR DISTILLATION PLANT AT KALINGANAGAR INDUSTRIAL AREA, DISTRICT-JAJPUR OF SRI SHUBHAM GUPTA - EC.

STATUTORY COMPLIANCE:

1. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
2. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
3. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule -I species in the study area).
4. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
5. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
6. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

AIR QUALITY MONITORING AND PRESERVATION

1. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
2. The project proponent shall install system carryout to Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutions released (e.g PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ main NO_x in reference to SO₂ and NO_x emissions) with and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
3. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.
4. For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
5. To control source and the fugitive emissions, suitable pollution control devices shall be

installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines. Bag filter (PTFE/pulse jet) shall be installed to control the emissions.

6. National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.
7. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8. Proper care shall be taken for transportation of crude coal tar to the project proponent's storage tanks.
9. No raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used.

WATER QUALITY MONITORING AND PRESERVATION

1. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986.
2. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
4. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
5. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
6. Sewage Treatment Plant (STP) shall be provided for treatment of domestic wastewater to meet the prescribed standards.
7. Rainwater harvesting system shall be set up in the premises and water shall be used for various industrial purpose in the unit.

NOISE MONITORING AND PREVENTION

1. Noise level survey shall be carried as per the prescribed guideline and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986

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Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

ENERGY CONSERVATION MESURES.

1. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
2. Provide LED lights in their offices and residential areas.

WASTE MANAGEMENT

1. Kitchen waste shall be composed or converted to biogas for further use.
2. The proponent shall undertake waste minimization measures as below:-
 - a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c) Use of automated filling to minimize spillage.
 - d) Use of Close Feed system into batch reactors.
 - e) Venting equipment through vapour recovery system.
 - f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

GREEN BELT

1. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.

PUBLIC HEARING AND HUMAN HEALTH ISSUES

1. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Level Expert Appraisal Committee (SEAC).
2. Emergency preparedness plan based on the Hazed identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
3. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
5. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. Workers shall be provided with adequate safety kits/mask for protection from carbon black/coal tar dust, if any, occur in the factory.

CORPORATE ENVIRONMENT RESPONSIBILITY

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental/forest / wildlife norms / conditions and / or shareholder's / stake holders. The copy of the board resolution in this regard shall be submitted to the SEIAA, Odisha and to the MoEF&CC as a part of six-monthly report.
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA, Odisha / the Regional Office, MoEF&CC along with the Six-Monthly Compliance Report.
5. Self-Environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

MISCELLANEOUS

1. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA, Odisha and Regional Office, MoEF&CC, Govt. of India along with the Six Monthly Compliance Report.
3. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
4. The copies of the environmental clearance shall be submitted by the project proponents to the heads of local bodies, Panchayats and municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of

receipt.

5. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including result of monitored data on their website and update the same on half-yearly basis.
6. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
7. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
8. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9. The project proponent shall inform the SEIAA, Odisha and Regional Office of MoEF&CC, Govt. of India, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
10. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
11. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.
12. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act/1986.
13. The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
14. The SEIAA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15. The Regional Office of MoEF&CC, Govt. of India shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
16. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
17. Any appeal against this EC shall lie with National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.

TABLE
DECISION ON MINOR MINERAL PROJECTS WITH LEASE AREA LESS THAN 5 HA.
ON 10.07.2024
(CLARIFICATION RECEIVED)

Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
1.	SIA/O-R/MIN /4695 77/20 24	Sri Dwarikanath Das (Lessee) M/s Bichhanapali -2 Sand Quarry At/Po. Laxmipur, Dumerbahal Dist: Nuapada Pin: 766107 Email: dwarikanathdas1987@gmail.com	Nuapada	Sand	Proposal of Environmental Clearance for Bichhanapali-2 Sand Quarry over an area 12.30acres or 4.977ha in Bichhanapali village under Khariar tahasil of Nuapada district of Sri Dwarikanath Das - EC	29th April, 01 st , 02 nd , 03 rd and 04 th May 2024	1. Earlier EC has been rejected by observing satellite image taken on November month but as per drone survey conducted on January shows availability of sand on lease area,	Yes, earlier the EC had been rejected based on a satellite image taken in November. This is to inform you that the Lower Indra Dam is situated upstream of Bichhanapalli Sand Bed - 2, so the dam water is present in the river until November-December and most of the water is removed only after January. Hence, after the rejection of the EC, a drone survey was conducted in January and a reapplication has been proposed.	The SEAC recommended to grant EC valid from the date of EC accorded upto the lease period with specific conditions stipulated for sand mine with following additional conditions. i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee. ii) In view of likely revision of DSR the mention of this deposit with final coordinates is

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
							Hence, Reapplication has been proposed by PP.		to be ensured.
							2. Part – B of Application form not available in PARIVESH 2.0	There is not any option of filling Part B for category B2 project in Parivesh 2.0.	iii) The boundary area of the deposit as per the updated DSR defined by geo coordinates based on DGPS survey be superimposed on the cadastral map. iv) Plantation programme to be completed within first two years and to be maintained in remaining years.
							3. KML file is not clear	The clear KML file is attached herewith.	v) The Project proponent shall follow Sustainable Sand Mining Guidelines, 2020.
							4. M.R in Mining plan is 80% of G.R. The applied quantity should meet the guidelines of MoEF i.e. not more than 60% of G.R	As per the Enforcement & Monitoring Guidelines for Sand Mining 2020, "The area for removal of minerals shall not exceed 60% of the mine lease area".In the instant case it is 30% only.	vi) The proponent shall provide Bio- toilet for the workers. vii) Project Proponent shall not disturb the water course during mining
									However, EC shall be granted subject to

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
							5. Cluster certificate is not available.	This is to certify that there is no other quarry present within the 500m distance from the lease area.	submission of following (i) Kml file is not submitted. Revised kml file needs to be submitted.
2.	SIA/O R/MIN /4700 08/20 24	Sri Santanu Kumar Mishra (Lessee) M/s Bikrampur Stone Quarry (Ka) At/Po- Basudevпали, Ps- Manamunda, Dist-Boudh Pin: 752016 Email: santanumishra5791@gmail.com	Boudh	Stone	Proposal of Environmental Clearance for Bikrampur Stone Quarry (Ka) over an area of 3.00 acres or 1.214 hectares in village Bikrampur under Kantamal Tahasil in Boudh District of Sri Santanu Kumar Mishra - EC	29th April, 01 st , 02 nd , 03 rd and 04 th May 2024	1. From KML file it is observed that materials have been digged out and there is water bodies inside the leased area. It is an old mine. The lease agreement has been made on 03.08.2018 for 5years for the	As per KML file it is an old working quarry in the period of 2018-19 to 2022-23. The lease agreement was conducted on 03-08-2018 for five years which has expired on 02-08-2023. This is a fresh lease area granted on 06.03.2024. The copy of Form F regarding intimation to Successful Bidder is enclosed as Annexure – I . As per approved Mining Plan the surface runoff likely to be generated will be discharged through pumping and dewatering using high	The SEAC recommended to grant EC valid from the date of EC accorded up to the lease period with following additional conditions. i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee. ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured iii) Plantation programme

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
							mining operations. But as per PFR, the leased time 2024-25 to 28-29	pressure pumps. As per PFR the lease time is 2024-25 to 2028-29, after getting EC of this source.	to be completed within first two years and to be maintained in remaining years.
							2. Canal at 214 m from the lease boundary. A proper management needs to be made for its protection.	As per the Google image the distance from the lease boundary to canal is 214m. But as per the approved mining plan a retaining wall will be constructed around the lease boundary in the side of the canal which will be well protected to enter the water in the lease area. The Layout plan showing the retaining wall & Garland Drain is enclosed in Annexure - II	iv) Depth of Mining as proposed should not be beyond 6m from the ground level. v) Mitigation measures for flying Rock for safety be put in place. vi) Stone quarry project proponent need to 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.
							3. Layout plan showing all sites like dump area, mining area, garland	The Layout showing retaining wall and Garland Drain is enclosed as Annexure - II . Dimension of Retaining wall is 100m X 1m X	vii) The boundary area of the deposit as per the revised / updated DSR to be defined by geo coordinates based on DGPS survey

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
							drain etc.	1.5m and Garland Drain is 98m X 1m X 1m.	superimposed on the cadastral map. viii) Construction of garland drains retaining wall and settling tank should be ensured to prevent erosion during rainfall and to collect silt generated during the mining activity. ix) All the dumps shall be covered by retaining wall, garland drains and settling ponds. x) Maximum depth of quarry shall not exceed 6 meters from ground level as per guidelines. xi) No explosives shall be stored without approval of competent authority and all the precautions for blasting shall be put in place.
3.	SIA/O R/MIN /4699	Sri Santanu Kumar Mishra	Boudh	Stone	Proposal of Environmental Clearance for	29th April, 01 st , 02 nd , 03 rd and 04 th May	1. From KML file it is observed	As per KML file it is an old working quarry in the period of 2018-19 to 2022-23. The lease	The SEAC recommended to grant EC valid from the date of EC accorded up to the

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
	12/2024	(Lessee) M/s Bikrampur Stone Quarry (Kha) At/Po- Basudevпали, Ps- Manamunda, Dist-Boudh Pin: 752016 Email: santanumishra5791@gmail.com			Bikrampur Stone Quarry (Kha) over an area of 2.54 acres or 1.028 hectares in village Bikrampur under Kantamal Tahasil in Boudh District of Sri Santanu Kumar Mishra - EC	2024	that materials have been dugged out and there is water bodies inside the leased area. It is an old mine. The lease agreement has been made on 03.08.2018 for 5 years. But as per PFR, the leased time 2024-25 to 2028-29.	agreement was conducted on 03-08-2018 for five years which has expired on 02-08-2023. This is a fresh lease area granted on 06.03.2024. The copy of Form F regarding intimation to Successful Bidder is enclosed as Annexure - I. As per approved Mining Plan the surface runoff likely to be generated will be discharged through pumping and dewatering using high pressure pumps.	lease period with following additional conditions. i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee. ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured iii) Plantation programme to be completed within first two years and to be maintained in remaining years. iv) Depth of Mining as proposed should not be beyond 6m from the ground level.
							2. It is working mine as mentioned	As per DSR it is a working mine. The new DSR preparation in this	v) Mitigation measures for flying Rock for safety be put in place.

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
							in DSR. If it is a working mine, then year wise production need to be furnished.	district is under process. This is an old DSR. So it shows a working mine. This is a fresh lease area granted to successful bidder on dated 06.03.2024. The copy of Form- F regarding intimation to Successful Bidder is enclosed as Annexure – I . As on date no production has been commenced. After getting EC it will be plan to Operate.	vi) Stone quarry project proponent need to 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. vii) The boundary area of the deposit as per the revised / updated DSR to be defined by geo coordinates based on DGPS survey superimposed on the cadastral map. viii) Construction of garland drains retaining wall and settling tank should be ensured to prevent erosion during rainfall and to collect silt generated during the mining activity. ix) All the dumps shall be
							3. A Canal exists at 320 m from the boundary. A proper management needs to be made for its protection.	The distance from the lease boundary to canal is 320m. But as per the approved mining plan a retaining wall will be constructed around the lease boundary in the side of the canal which will be well protected to enter the water in the lease area. The Layout plan showing the retaining	

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
								wall & Garland Drain is enclosed in Annexure - II	covered by retaining wall, garland drains and settling ponds.
							4. Layout plan showing all sites like dump area, mining area, garland drain etc.	The Layout showing retaining wall and Garland Drain is enclosed as Annexure - II. Dimension of Retaining wall is 78m X 1m X 1.5m and Garland Drain is 80m X 1m X 1m.	x) Maximum depth of quarry shall not exceed 6 meters from ground level as per guidelines. xi) No explosives shall be stored without approval of competent authority and all the precautions for blasting shall be put in place.
4.	SIA/OR /MIN/47 6972/2 024	Sri Janardan Mishra (Lessee) M/s Kharabhuin-II Stone Quarry At: Brahmana Sahi, Dist: Boudh Pin: 762014 Email: janardanmishra.ec@gmail.	Boudh	Stone	Proposal of Environmental Clearance for Kharabhuin-II Stone Quarry over an area of 7.00 acres or 2.833 hectares bearing Khata no. 193, Plot no. 1463/A in Kharabhuin village of Harabhanga	10 th June 2024	1. Comparative statement of facilities and infrastructure created in pre and post enhancement. 2. In original EC letter it is mentioned to transfer	This is a B2 category minor mineral project and does not require any facilities and infrastructure at the lease area. 1. The Amount of Rs. 1,35,000 pertaining to Tree Plantation is deposited in the District Environmental Society	The SEAC recommended to grant EC valid from the date of EC accorded up to the lease period with following additional conditions. i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee.

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
		com			Tahasil, District- Boudh of Sri Janardan Mishra - EC		Rs.1,35,000 for plantation. There is no record of it. This shall be clarified.	Account, a payment receipt of the same is attached as Annexure - 3 of the EC compliance report.	ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured iii) Plantation programme to be completed within first two years and to be maintained in remaining years.
						3. In subsequent transfer EC it is mentioned that Tahasildar has to collect 5% of royalty from lessee to deposit Environment Management Fund. Status of it.	5% of royalty has been deposited in Environment Management Fund. Letter from Tahasildar, Harabhanga is attached as Annexure - 4 of the compliance letter.	iv) Depth of Mining as proposed should not be beyond 6m from the ground level. v) Mitigation measures for flying Rock for safety be put in place. vi) Stone quarry project proponent need to 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.	
						4. Compliance report to previous EC	EC compliance report is attached with this letter.	vii) The boundary area of	

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Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
							conditions.		<p>the deposit as per the revised / updated DSR to be defined by geo coordinates based on DGPS survey superimposed on the cadastral map.</p> <p>viii) Construction of garland drains retaining wall and settling tank should be ensured to prevent erosion during rainfall and to collect silt generated during the mining activity.</p> <p>ix) All the dumps shall be covered by retaining wall, garland drains and settling ponds.</p> <p>x) Maximum depth of quarry shall not exceed 6 meters from ground level as per guidelines.</p> <p>xi) No explosives shall be stored without approval of competent authority and all the</p>

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 Environmental Scientist, SEAC

Sl. No	SEIAA File No.	Name & Address of the proponent	District	Type of Mineral	Name of the project	Clarification sought by the SEAC		Whether compliance furnished by the Tahasildar (Yes / No) With Remarks if any	Recommendation of the SEAC
						Date of meeting	Clarification		
									precautions for blasting shall be put in place.
5.	SIA/OR/MIN/249911/2022	Tahasildar Borigumma (Tahasildar) M/s. Kamata Sand Bed At - Tahasil office Borigumma, Dist. Koraput, Boriguma, Koraput, Pin-764056 Email: tahasildarborigumma@gmail.com	Koraput	Sand	Proposal of Environmental Clearance for Kamata Sand Bed over an area of 3.402 Acres or 1.377 Hectares having Khata No. 194, Plot No. 212 in the village Kamata, Tahasil Borigumma in district Koraput of Tahasildar Borigumma - EC	07 th , 08 th and 11 th September 2023	1. Transportati on route map showing availability of road from mining point to main road duly certified from the Tahasildar. 2. Revised mining plan considering the water stream.	Transported route map of showing availability of road from mining point to main road duly certified from the Tahasildar is attached as Annexure – 1. An undertaking is attached as Annexure – 2. In undertaking Tahasildar has mentioned "request permission to operate the mines throughout the full monsoon period." Whether as per rule is it feasible to operate during monsoon period? This must be looked into.	The SEAC recommended to grant EC valid from the date of EC accorded upto the lease period with specific conditions stipulated for sand mine with following additional conditions. i) Consent / NoC shall be obtained from the concerned authority if village road is to be used for transportation. The said road shall also be maintained by the lessee. ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured. iii) The boundary area of the deposit as per the updated DSR defined by geo coordinates based on DGPS survey be

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						Date of meeting	Clarification		
							3. Revised KML file and video of mining area after rainy season for further consideration of EC.	Revised kml and video of mining area of post monsoon has been sent through E-mail.	<p>superimposed on the cadastral map.</p> <p>iv) Plantation programme to be completed within first two years and to be maintained in remaining years.</p> <p>v) The Project proponent shall follow Sustainable Sand Mining Guidelines, 2020.</p> <p>vi) The proponent shall provide Bio- toilet for the workers.</p> <p>vii) Project Proponent shall not disturb the water course during mining</p> <p>However, EC shall be granted subject to submission of following</p> <p>(i) Kml file is not submitted. Revised kml file needs to be submitted.</p>

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						Date of meeting	Clarification		
									(ii) Revised mining plan considering the water stream is not submitted w.r.t this query an undertaking is submitted. Hence, Revised mining plan considering the water stream to be submitted.


 MEMBER SECRETARY, SEAC

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