



AGENDA NO.143.01	
Proposal No.	SIA/OR/INFRA2/427528/2023
Date of application	12.09.2023
File No.	427528/22-INFRA2-V/09-2023
Project Type	Proposal for Violation ToR
Category	B
Project/Activity including Schedule No.	8(a) Building & Construction Project
Name of the Project	Proposal for grant of Violation ToR for construction of (LB+GB+G+12) Office Building and Service Buildings (IT & ITES, Incubation Center) Over Plot no. -1288 (P) & Khata no-420, Mouza-Patharagadia Bhubaneswar within the development plan area of Special Planning Authority of M/s Odisha Industrial Infrastructure Development Corporation (IDCO).
Name of the company/Organization	Sri Jitendriya Jyotiprakash Divisional Head, BCD-II, IDCO
Location of Project	Mouza-Patharagadia Bhubaneswar
ToR Date	N/A
Name of the Consultant	M/s.Visiontek Consultancy Services Pvt. Ltd. (Bhubaneswar)

Proposal in brief:

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
 - (i) This is a proposal for grant of Violation ToR for construction of (LB+GB+G+12) Office Building and Service Buildings (IT & ITES, Incubation Center) Over Plot no. -1288 (P) & Khata no-420, Mouza-Patharagadia Bhubaneswar within the development plan area of Special Planning Authority of M/s Odisha Industrial Infrastructure Development Corporation (IDCO).
 - (ii) 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.
 - (iii) This proposal is for Terms of Reference for Environmental Clearance of M/s Odisha Industrial Infrastructure Development Corporation (IDCO) for (LB+GB+G+12) Office Building and Service Buildings (IT & ITES, INCUBATION CENTER) Over Plot no. -1288 (P) & Khata no-420, over an built-up area 40229.635 Sqm Mouza – Patharagadia, Bhubaneswar, Khordha District of Sri Jitendriya Jyotiprakash.
 - (iv) **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.
 - (v) The building plan has been approved by Special Planning Authority, IDCO. Letter No. 11708 dated 10.05.2022. Approved Built Up Area = 40229.63 sqm. (as per Special Planning Authority, IDCO). Approved Layout Plan on dated- 10.05.2022.
 - (vi) **Location and connectivity:** The proposed development is a (LB+GB+G+12) multi storied office building and service building (B+G+2) within the development plan area of special planning authority, IDCO. The site is located back side to the local landmarks of

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Shikharchandi hill. Total land required for this proposed project is 14447.27 sqm (3.57 Acre). The proposed construction will be over Plot no-1288, Khata no- 420 at Mouza – Pathargadia, Tahasil – Bhubaneswar, PS- Chandaka no. 40, Dist- Khordha, Odisha bounded by Latitude 20°21'16.26"N and Longitude 85°48'02.83"E. Nearest NH/ Highway is NH –16 at a distance from (SE); Nearest Railway Station is Bhubaneswar Railway Station is 1.7 K m (E); Nearest Airport is Biju Pattnaik Airport, BBSR-10.30 km (SSW).

(vii) As per the BDA revised Master Plan, project site is earmarked in SEZ (Special Economic Zone) zone where Commercial IT/Office Establishments are permitted.

(viii) **Present status of construction:**

Area Statement (Main Building) (A1):-

Sl. No.	Floor Name	Floor To Be Used		Gross Plinth Area In Sq. Mtr.			Work completed so far	Work Yet to be Completed
		Front Tower	Rear Tower	Front Tower	Rear Tower	Front Tower+ Rear Tower		
i)	Lower Basement	Parking	Parking	-	-	2835	All	Nil
ii)	Upper Basement	Parking	Parking	-	-	2845	All	Nil
iii)	Ground Floor	Cafeteria & Conference	Service Floor	1024	1343.7	2367.7	All	Nil
iv)	1 st Floor	Office	Parking	1024	1395.7	2419.7	Structure	Fit-out
v)	2 nd Floor	Office	Parking	1024	1395.7	2419.7	Do	Fit-out
vi)	3 rd Floor	Office	Parking	967.8	1395.7	2363.5	Do	Fit-out
vii)	4 th Floor	Office	Office	1069.55	1395.7	2465.25	Do	Fit-out
viii)	5 th Floor	Office	Office	1069.55	1395.7	2465.25	Do	Fit-out
ix)	6 th Floor	Office	Office	1069.55	1395.7	2465.25	Do	Fit-out
x)	7 th Floor	Office	Office	1069.55	1395.7	2465.25	Do	Fit-out
xi)	8 th Floor	Office	Office	1069.55	1395.7	2465.25	Do	Fit-out
xii)	9 th Floor	Office	Office	1069.55	1395.7	2465.25	Do	Fit-out
xiii)	10 th Floor	Office	Office	1125.75	1475	2600.75	Do	Fit-out
xiv)	11 th Floor	Office	Office	1125.75	1475	2600.75	Do	Fit-out
xv)	12 th Floor	Office	Office	1125.75	1475	2600.75	Do	Fit-out
Total Area				13834.35	18330	37845.31		

Area Statement (Main Building) (A1):-

Sl. No.	Floor Name	Floor To Be Used		Gross Plinth Area In Sq. Mtr.			Work completed so far	Work Yet to be Completed
		Front Tower	Rear Tower	Front Tower	Rear Tower	Front Tower+ Rear Tower		

Area Statement (Service Building) (A2)

xvi)	Lower Basement	STP	252.2				All	Nil
xvii)	Upper Basement	Operation Area	291				All	Nil
xviii)	Ground Floor	DG , Panel Transformer	356.8				All	Nil
xix)	1st Floor	Panel Room	366.8				All	Nil

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Total Area		1275.8				
Area Statement (Fire Pump Room) (A3)						
xxv)	Basement	Pump Room	193		All	Nil
xxi)	Ground Floor	Pane Room	36.56		All	Nil
Total Area		229.56				
Area Statement (Vehicular Ramp) (A4)						
xxii)	Two Nos. Vehicular Ramp In Rear Tower From Ground To Lower Basement		237.98 Sqm Each	475.96	All	Nil
xxiii)	Two Nos. Vehicular Ramp In Front Tower From Ground To Upper Basement	137.67+57.87		195.54	All	Nil
Total Area				671.5		
Area Statement(Car Lift Well) (A5)						
xxiv)	2 Nos. Of Car Lift In Rear Tower		Each 30.35 Sqm.	60.72	Complete a car lift work	A car lift WIP
xxv)	Connecting Way From Car Lift Well To Building Provided At 1 st , 2 nd & 3 rd Floor Level For Both Cart Lift Well Side (Total 6 Nos.)		Each 24.29 Sqm.	145.74	All	A car lift WIP
Total Area				206.46		
Grand Total Bilt-Up Area				40229.63		

(ix) **Water requirement:** Total Water requirement is 142 KLD (Fresh water + Flushing water). Total domestic water requirement is 64 KLD. Total flushing water requirement is 78 KLD. Wastewater generation from entire official building is 128 KLD and STP Capacity is 150 KLD with INDION FMR Technology. Source of water is through Provision by IDCO for supply water/ ground water (stand by).

Water Calculation							
Sl. No.	Particulars	Units	Total Quantity Of Occupancy	Domestic	Flushing	Total	Wastewater Generation
a)	Office Employees @ 1 person/ 10 sqm	Office Area of two towers 26536.4 sqm	2660	53200	66500	119700	107730
b)	Food Court	Seats	300	6000	4500	10500	9450
c)	Visitors @ 10% of total office employees	NO.S	265	1325	2650	3975	3577.5
d)	Maintenance Staff	NO.S	170	3400	4250	7650	6885
TOTAL			3395	63925	77900	141825	127642.5

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			64 KLD	78 LD	142KL D	128D
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(x) **Rainwater harvesting details:** Surface runoff from road, paved area and green belt area (14 cum/hr) has collected by a recharge pit having capacity of 4 cum. Total no. of Rain Water Harvesting Pit are 11 in numbers.

(xi) **Parking Proposed:** Total parking required is 10614.58 sqm (40% FAR area). Total parking provided is 10880.00 sqm (open parking- 1042 sqm and cover parking- 9838 sqm) and total 440 ECS has been provided (including 10% of visitor parking).

LOCATION	AREA IN SQM	NO. OF ECS	Type of vehicle	ARE A in Sqm	Tota l NO. OF ECS	Type of vehicle	AREA in Sqm	NO. OF ECS	Tota l NO. OF ECS
LOWER BASEMENT	2835	88.6	4wheeler	2560	80	2wheeler	275	45.83333	46
UPPER BASEMENT	2845.96	88.9	4wheeler	2560	80	2wheeler	285.96	47.66	48
1 ST FLOOR	1395.7	69.8	4wheeler	1200	60	2wheeler	195.7	32.61667	33
2 ND FLOOR	1395.7	69.8	4wheeler	1200	61	2wheeler	195.7	32.61667	33
3 RD FLOOR	1395.7	69.8	4wheeler	1200	62	2wheeler	195.7	32.61667	33
COVERED PARKING AREA	9868.06	386.9	4wheeler	8720	343	2wheeler	1148.06	191.3433	193
OPEN PARKING AREA	1042	52.1	4wheeler	800	40	2wheeler	242	40.33333	40
TOTAL PARKING PROVIDED INCLUDING VISITORS	10910.06	439.0	4wheeler	9520	383	2wheeler	1390.06	231.6767	233
TOTAL PARKING PROVIDED FOR EMPLOYEES	9819.054	395.0865	4wheeler	8568	344.7		1251.054	208.509	209.7
Visitors Parking (10% OF TOTAL PARKING AREA)	1091.006	43.8985	4wheeler	952	38.3	2wheeler	139.006	23.16767	23.3

(xii) **Power Requirement:** During the operational phase (100% Completion) of the project, power requirement will be around 2801 KW. The power will be entirely supplied by 11 KV source of CESU of GRIDCO, Odisha. The maximum demand of phase I and II taken together is 2801 KW. Considering a power factor of 0.9 the maximum demand works out to 3112 KVA. To meet the load and to ensure uninterrupted service, it the scheme provides for 3 Nos 1600 KVA transformers and 3 Nos. 1500 KVA prime power DG sets.



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- (xiii) **Solid waste generation:** The solid waste generated from the project will mainly be around MSW (Municipal Solid Waste) 0.640 T/day. The total biodegradable solid waste will be 0.380 T/day and the total non-biodegradable solid waste will be 0.260 T/day. It will be collected in different coloured bins. Proper waste management practices shall be adopted during collection, storage and disposal of solid waste and construction and demolition waste generated.

Description	Weight	Disposal
Organic Solid Waste	380.2 kg/day	Converted to compost
Inorganic Waste	260 kg/day	Authorized Recyclers
E-waste	500 kg/year	Authorized Recyclers
STP Sludge	5kg/day	Manure for landscaping area
Hazardous Waste	1000 Litres	Authorized Disposal Agency

- (xiv) **Greenbelt:** the total green area developed is 3113 sqm. A greenbelt of native plant species has been developed. Total green area measures 3113 m² (approx. 21.5 % of the net plot area). Trees like *Plumeria alba* *Plumeria rubra*, *Scotch Pine* *Topiary* and *Livistona palm* etc. and flowering and ornamental plants have been proposed to be planted inside the premises.
- (xv) **Project cost:** Total estimated cost of the proposed project is Rs.157.16 Crores.
- (xvi) **Violation Details:** The Proponent has already constructed the office building and service buildings (IT & ITES, Incubation Center) without obtaining the Environmental Clearance.
- (xvii) **Environment Consultant:** The Environment consultant **M/s Visiontek Consultancy Services Pvt. Ltd. (Bhubaneswar)** along with the proponent made a presentation on the proposal before the Committee.
- (xviii) Any deficiencies/omission have been noticed in the above documents- Nil

2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 18.10.2023 and the SEAC observed that the proponent has already constructed the project without obtaining Environmental Clearance as per EIA Notification 14th Sept. 2006 and amendment thereafter. The SEAC, after detailed deliberations on the proposal in terms of the provisions of the MoEF&CC, Govt. of India Notification dated 14th March, 2017, confirmed the case to be of violation of the EIA Notification, 2006 and recommended for issuing Standard Term of Reference as per Annexure – A along with the following specific Term of Reference for undertaking EIA and preparation of Environmental Management Plan (EMP):

- (i) The State Government to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no Consent to Operate to be issued till the project is granted Environmental Clearance.
- (ii) The project proponent shall be required to submit a Bank Guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of Environmental Clearance. The quantum shall be recommended by the SEAC and finalized by the regulatory authority i.e. SEIAA, Odisha. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority i.e. SEIAA, Odisha.
- (iii) 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.



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- (iv) 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.
- (v) 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.
- (vi) The proponent shall pay the penalty for such violation as per SoP for violation issued vide OM F No. 22-21/2020/IA. III, dtd. 07.07.2021 of MoEF & CC, Govt. of India.
- (vii) Fire disaster management plan specially designed for topmost floors with detailed note on hydrant system pump and water storage.
- (viii) Detailed calculation of renewable energy/solar energy along with roof top solar plan layout.
- (ix) Clear site layout showing all features of the project and distance from road.
- (x) Traffic Study Report to be submitted and vetted from reputed institute.
- (xi) Structural Stability certificate from appropriate authority as per regulatory authority guidelines to be submitted and vetted from reputed institute.
- (xii) Detailed calculation of Rain Water Harvesting and Layout showing Rainwater Harvesting pits.
- (xiii) Layout map showing the treated water fallout to nearest drain and its distance.
- (xiv) Layout of internal drainage map and their fallout to external public drain.
- (xv) Copy of permission of the concerned authority of the drain / sewer to discharge the treated water from project to the nearby drain.
- (xvi) Reduce discharge of treated water to drain by planting more trees.
- (xvii) The greenbelt to be provided along the outer periphery of the plot along the boundary the spacing may be reduced to 2m x 2m to accommodate more trees and should be planted on a hierarchical pattern.
- (xviii) The concept of vertical garden may also be considered apart from landscaping, potted plants, Parks & Gardens.
- (xix) The water Treatment Plant, Waste Water Treatment Plant, STP, DG set's location to be marked in the layout plan.
- (xx) Adequate overhead portable water tank to be provided as per the norms apart from Treated Waste Water tank for use in dual plumbing system for the flush in the toilet.
- (xxi) To submit Sabik RoR with Kisam and Hal RoR with Kisam to rule out involvement of Forest and DLC land in the project.
- (xxii) For parking of various types of vehicle adequate provision of basement, Stilt, Open area and Mechanical parking may be considered.
- (xxiii) Provision of lift with ventilation, lighting and AC from lowest basement to terrace roof top to be provided.
- (xxiv) Efforts for Energy Conservation in the project as per Bureau of Energy Conservation in line with Energy Conservation Act, 2003 to be submitted for the project.
- (xxv) Disaster Management Plan for the project may be prepared and submitted as per Disaster Management Act, 2005.
- (xxvi) Indicate the system of Storm Water Drainage, Rainwater Harvesting System and Recharge Well.
- (xxvii) Copy of permission obtained from the CGWA for drawl of ground water.
- (xxviii) Detailed notes on water flow meters proposed for monitoring of water consumption under different heads.
- (xxix) Details on drainage network of the site, drainage connection, permission to discharge treated waste water and copy of water balance during the monsoon.
- (xxx) Details of STP proposed incorporating the treatment system such as UV, filtration and chlorination facility in it.
- (xxxi) Copy of revised lay out clearly demarking the parking area along with the open parking space.
- (xxxii) Zone-3 has been shown as green belt area whereas the same has been indicated as re-creation/Lawn area. Therefore, the proponent shall rectify the same while applying for EC.

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(xxxiii) Detailed layout of the fire corridor.

(xxxiv) The proponent shall justify the violation that is why there is delay in applying for EC.

(xxxv) Copy of the certificate from the concerned DFO regarding distance of the site from Chandaka and Nandankanan Sanctuary and its Eco-Sensitive Zone.

(xxxvi) Project proponent has mentioned about Incubation Centre. Project proponent should provide details of incubation centre, i.e. types of incubation and related infrastructure. If biological incubation there are several environmental implications on it.

Decision of Authority: Approved

After detailed deliberation in the matter, the authority decided to issue ToR (both standard and specific conditions) for EIA studies along with Public Hearing.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


30.11.2023
Chairman, SEIAA

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AGENDA NO.143.02

Proposal No.	SLA/OR/MIN/302609/2023
Date of application	07.08.2023
File no.	SEIAA-1362/02-2021
Project Type	Proposal for Amendment of EC based replenishment study report of sand
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for Amendment of EC of Galadari Devi River Sand Quarry over an area of 10.00 acres or 4.04 hectares in village Galadari under Naugaon Tahasil in Jagatsinghpur District Odisha
Name of the company/Organization	Sri Akshaya Mohanty
Location of Project	village Galadari under Naugaon Tahasil in Jagatsinghpur District Odisha
ToR Date	N/A
Name of the Consultant	N/A

1. Proposal in brief:

- (i) The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
- (ii) This is a proposal for amendment of EC of Galadari Devi River Sand Quarry over an area of 10.00 acres or 4.04 hectares in village Galadari under Naugaon Tahasil in Jagatsinghpur District Odisha.
- (iii) The project proponent has obtained EC from SEIAA, Odisha vide EC letter no. 2176/SEIAA dated 10.08.2021 for Galadari Devi River Sand Quarry over an area of 10.00 acres or 4.04 hectares in village Galadari under Naugaon Tahasil in Jagatsinghpur District Odisha.
- (iv) During EC application the PP has submitted required documents along with mining plan where it is mentioned that mineable reserve of the proposed sand was 81000 cum with depth of sand deposition was 2.5 meter and proposed for annual extraction-9720 cum.
- (v) The SEIAA also granted EC for 1st year production **9500 cum** with depth of mining 0.75 meter.
- (vi) There is an EC conditions point no. 9.1 to 9.2 in page no. 03 that "Pending carrying out of the study & submission of the report, this clearance is being granted in an adhoc manner and is liable to be revoked after one year i.e. after 15th October 2022 if satisfactory replenishment study report is not submitted."
- (vii) The PP has submitted EC compliance report and mentioned that **6469 cum** sand already extracted from the source for the 1st year lease period 21.04.2022 to 04.01.2023.
- (viii) Now, the PP has submitted amendment of EC application and submitted replenishment study report by RQP Sri Pravat Sahoo with mentioned that pre-monsoon mineable reserve is 9820 cum and post-monsoon reserve is 4371.5 and quantity of material replenished is 2622.9 cum and 2nd year proposed production is 2622.9 cum.
- (ix) Any deficiencies/omission have been noticed in the above documents- Nil

2. Whether SEAC recommended the proposal – The proposal was placed in SEAC meeting held on 2nd, 7th, 8th & 11th Sept, 2023 and after detailed discussion, the SEAC observations the following-

- (i) Pre-monsoon study date and method is mentioned differently at different places in the study report (8.6.22 at some places and 15.7.22 at other places. Also, methodology is mentioned as Volumetric method at some places and Drone survey at other places.)

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- (ii) As per estimation of reserve there is net loss of sand from 5892 cum in pre monsoon period to 2622.9 cum in post monsoon period with corresponding height reducing from 1 meter in pre monsoon to 0.7 meter in post monsoon. Therefore, this case is not recommended.
3. The proposal was placed in 140th meeting of SEIAA held on 26.10.2023 & 27.10.2023 and after detailed deliberation in the matter, the Authority accepted the recommendation of SEAC that there is net loss of sand as per replenishment of study. Hence, the SEIAA rejecting the replenishment study report. The PP is required to submit revised replenishment study report keeping in view of the observation of SEAC and submit the ARSS report through ORSAC empanel agency.
4. The PP submitted revised ARSS report again

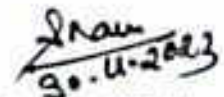
Decision of Authority: Rejected

The Authority perused the revised ARSS study submitted by the PP vide their letter dt. 17.11.2023 and observed that the PP/ORSAC empanelled agency has taken the same set up data which has already been rejected by SEAC. In the absence of any new set of data, the ARSS report is not acceptable. Accordingly, the application for amendment of EC is rejected.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


30.11.2023
Chairman, SEIAA

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AGENDA NO.143.03	
Proposal No.	SIA/OR/MIN/437539/2023
Date of application	20.07.2023
File No.	437539/823-MINB1/07-2023
Project Type	Proposal for EC
Category	B1
Project/Activity including Schedule No.	I(a) Mining of minerals
Name of the Project	Proposal for grant of EC for Baitarini River Sand Bed over an area of 20.47 acres or 8.284 Ha Anandapur Village, Tehsil - Anandapur, Dist- Keonjhar, Odisha
Name of the company/Organization	Sri Manas Kumar Barik S/o-Gouranga Chandra Barik At-Barigaon, Po-Bailo, Dist-Keonjhar
Location of Project	mouza- Anandapur under Anandapur Tahsil of Keonjhar district, Odisha
ToR Date	01.02.2021
Name of the Consultant	EHS 360 Consultant, Ashok Nagar, Chennai

Proposal in brief:

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

- (i) This is a proposal for mining of sand from Baitarini Sand Bed, Panchupally over an area of 5.058 ha at mouza - Panchupally under Anandapur Tahsil of Keonjhar district, Odisha.
- (ii) The mining area is a part of Survey of India Toposheet No. F45 O/4 bounded by Latitude: 21°09'51.80" N to 21°10'1.30" N and Longitude: 86°11'30.60" E to 86°11'44.90" E.
- (iii) The mining lease is an identified sairat source in the DSR. The Baitarini Sand Bed, Anandapur sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Anandapur to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
- (iv) Documents submitted: -Form-1, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, topo map etc.
- (v) Distance from nearest sanctuary/ESZ- Chandaka WLS-37.0km
- (vi) Whether the lease area coming in DLC report-N/A
- (vii) Whether submitted scrutiny-Yes, of Rs. 2000/- vide e-Challan Ref. No. 3120D59173 dated 04.10.2022.
- (viii) Whether submitted KML file-Yes
- (ix) Whether the lease area reflecting in DSR-Yes
- (x) Method of mining-Manual
- (xi) River-Baitarini, Depth of sand deposition-1.0 meter
- (xii) Distance from nearest road bridge-2.4 km, village -0.70 km,
- (xiii) Whether it is part of cluster - No
- (xiv) Whether EC obtained earlier- No
- (xv) Date of approval of mining plan- Joint Director of Geology, Keonjhar on dated 30.07.2020.
- (xvi) Production capacity per annum-10368 cum/annum (max.), total production in 5 years period-51840 cum, Geological reserve-125780 cum and Mineable reserve-51840 cum.
- (xvii) Proposed mining depth as per approved mining plan- 1.0 meter
- (xviii) **Category:** As per the EIA Notification, 2006 and its subsequent amendments, this project falls in category B1 under Schedule of activity I(a)- Mining of Minerals.

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- (xix) This proposal is for environmental clearance for Baitarini Sand Bed, Anandapur over an area of 20.47 acres (8.284 ha.) is in Village- Anandapur, Tahasil – Anandapur, in district Keonjhar of Sri Manas Kumar Barik.
- (xx) **Category:** The project is categorized in Category-B1 of Schedule under item 1(a)-Mining of Minerals in the EIA notification, 2006 and its subsequent amendments.
- (xxi) The Mining plan has been approved for a period 2020-21 to 2024-25 by The Joint Director of Geology, Keonjhar. Vide letter no – 2390/CZ, dated 30.07.2020 in favour of Tahsildar, Anandapur.
- (xxii) The lease was granted to Mr. Manas Kumar Barik being the successful bidder for tenure of 5(Five) years from the date on which this executed deed is registered.
- (xxiii) Mining lease is a running mine identified sairat source in the DSR page no 4, SI No. 34, annexure II.
- (xxiv) **Public hearing details:** Public hearing was conducted on 22.06.2022 at village Anandapur, Keonjhar district. Issues raised during the public hearing were selling of sand with appropriate price, regular maintenance & monitor of transporting vehicles, PM Indra Aawas & Biju Pucca Ghar beneficiaries shall get sand at reasonable price, protection of dam road & demarcate the area of lease, employment of labour class in sand mining. Budget earmarked for action plan of public hearing amounts to 5 lakhs.
- (xxv) **TOR details:** Terms of Reference (ToRs) was issued by SEIAA vide letter no. 241/SEIAA dated 01.02.2021.
- (xxvi) **Location and connectivity:** The proposed lease area of Baitarani River sand bed quarry situated at village Anandapur, Tahasil- Anandapur, District - Keonjhar. The lease area is under reference featured in the Survey of India Topo sheet no. 73K/4 is on Khata No. 1281, Plot No.3377, Kissam- Nadi. The geo coordinates of the lease area is 21°12'53.78"N 86°07'07.37"E 21°12'58.89"N 86°07'02.63" E. The proposed area is located 6.37 km from District Headquarters Keonjhar and 150 Km from State Capital Bhubaneswar. Nearest railway station is at Tingripal railway station at an distance of 25.0Km. The lease area can be approached from National Highway NH-215(Gumla-Barkote) is at 0.7 Km away from the ML area. State Highway SH-53 (Banarpal-Pallahara) is 1.0 km away (Aerial Distance). Nearest Airport is Bhubaneswar Airport which is at 150Km. The area over 8.284 ha is a non-forest Govt. land of Nadi kissam, having ground elevation of 35 mRL.River bridge is at 1.8 km away and river embankment is 1km away from the proposed lease area.
- (xxvii) **Topography and drainage:** The general topography of the area around the mine site is general plan agricultural land along the river. The area constitutes almost alluvial plain without any conspicuous topographical features and forms a part of the vast Indo-Gangetic plain. The proposed area is undulating. The flow rate of the river varies with the quantity of precipitation in the catchment area.
- (xxviii) **Replenishment report:** Considering all the mining constrains, the volume of sand available during pre and post monsoon survey in safe workable area is computed. It is estimated that during pre-monsoon and post-monsoon, the sand available in safe workable area is **14573.22cum** and **9904.618cum** respectively. The volume of sand available during post monsoon survey around **9904.618 m³** which can be treated safe volume to be extracted. Since as per guidelines 60% of extractable sand i.e.5942.77m³ may be allowed to extract, further permits may be decided by SEIAA, Odisha.
- (xxix) **Reserves:** As estimated, geological reserve of sand is 125780cum and mineable reserve is 51840cum.
- (xxx) **Mining method:** The open cast manual method and transportation through dumpers and tractors will be carried. No mining activity will be undertaken during the monsoon season. No drilling & blasting will be performed for production requirement. The bench height will



- be 1m and width will be along the base of deposit. There will be no under cuttings or over hangs. The average thickness of the deposit is 2m.
- (xxxix) **Water requirement:** Water requirement for the project is 5KLD for domestic, plantation & dust suppression which will be sourced from Govt sources of water.
- (xxxix) **Power requirement:** The power required for the office is minimal, shall be taken from the General Electric supply of the area. However, if required for lighting in the project area at night power will be sourced from State Grid and for same it is estimate as 1.0 KVA.
- (xxxix) **Baseline study:** Baseline studies was carried out during period March 2021 to May 2021, PM10 ranges within 65-37 $\mu\text{g}/\text{m}^3$, PM2.5 ranges within 45.0-20 $\mu\text{g}/\text{m}^3$, SO₂ ranges within 6.4-4.0 $\mu\text{g}/\text{m}^3$ & NO_x ranges within 13.2-9.0 $\mu\text{g}/\text{m}^3$. In Industrial areas daytime noise levels were about 50.3 dB (A) and 42.3 dB (A) during night time, which is within prescribed limit by CPCB (75 dB (A) Day time & 70 dB (A) Night time). In residential areas daytime noise levels varied from 46.6dB (A) to 55.3 dB (A) and night time noise levels varied from 42.3 dB (A) to 50.2dB (A) across the sampling stations. Surface water analysis showed the pH value ranging from 6.8 to 7.2 and within the limits (6.5 – 8.5) of IS 2296:1992. The sulphate content in the collected surface water ranges 3.2 mg/l to 4.0 mg/l. The chloride content in the collected surface water sample ranges from 9.5 mg/l to 11.0 mg/l. DO of the collected surface water sample ranges from 6.0 mg/l to 7.0 mg/l. BOD of the collected surface water sample ranges from 1.4 mg/l to 1.8 mg/l. The ground water results of the study area indicate that the pH range varies between 6.6 and 7.4. It is observed that the pH range is within the limit of IS 10500:2012. The acceptable limit of the chloride content is 250 mg/l and permissible limit is 1000 mg/l. The chloride content in the ground water for study area ranges between 9 mg/l – 10.5 mg/l. It is observed that all are well within the permissible limit of IS 10500:2012. The desirable limit of the sulphate content is 200 mg/l and permissible limit is 400 mg/l. The sulphate content of the ground water of the study area varies between 2.3mg/l – 3.1 mg/l. It is observed that all the samples are within the permissible limit of IS 10500: 2012.
- (xxxix) **Greenbelt:** It is proposed to plant 50 Nos. per year of native species along with some fruit bearing and medicinal trees during the plan period and a budget of Rs. 0.6 Lakh for plantation is given in EMP. Common species to be planted are Neem, Peepal, Mango, Shisham, Sirish, Babool, Chakunda.
- (xxxix) **Manpower requirement:** In the mine for total production of 10368 Cu.m/Annum of River Sand 16 nos. of person are to be employed daily.
- (xxxix) **Project cost:** The estimated cost of project is 50 Lakhs. EMP capital cost of the project is 11.0 Lakhs and recurring cost is 4.50Lakhs/Annum.
- (xxxix) **Environment Consultant:** The Environment consultant **M/s EHS 360 Labs Private Limited, Chennai** along with the proponent made a presentation on the proposal before the Committee on 03.03.2023.
- (xxxix) The proposal was placed in the SEAC meeting held on 10.05.2023 and after detailed discussion, the SEAC decided to reject the replenishment studies as follows:
- (i) In view of net loss of sand as per replenishment study submitted sand mining cannot be allowed at present. PP may submit next replenishment study, as due, to consider the proposal.
- (xxxix) The proposal was placed in 125th SEIAA meeting held on 28.06.2023 and after detailed deliberations, the Authority decided to **reject the proposal** as SEAC reject the proposal with view that there is net loss of sand with comparison of pre-monsoon, post-monsoon data as per replenishment study report submitted by PP for which sand mining cannot be allowed at present. PP may ask to apply afresh with replenishment study report for further consideration.

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- (i) Accordingly, the PP has submitted fresh proposal for EC with fresh replenishment study report through ORSAC agency and mentioned that the pre-monsoon reserve is **14573.22 cum** and post-monsoon reserve is **25745.48 cum** and estimated sand replenished is **3854.37 cum** and the same replenished quantity is proposed for 1st year production as this is a fresh quarry.
- (ii) Any deficiencies/omission have been noticed in the above documents- Nil
- 2. Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 31.07.2023 and after detailed discussion, the SEAC decided as follows:
- The lessee indicated in the compliance furnished that they have conducted Post Monsoon Study in the month of June. Post monsoon study of June month cannot be considered for undertaking mining. Hence, replenishment study report is rejected.
 - In view of net loss of sand and unsatisfactory revised replenishment report, this proposal is not accepted and it is recommended to return the proposal to SEIAA to take further action.
3. The proposal was placed in the 134th meeting of SEIAA held on 07.09.2023 & 08.9.2023 and after detailed deliberations, the Authority agreed to the recommendation of SEAC and decided that the PP is required to submit the replenishment study report of sand through ORSAC empanelled agency afresh for further consideration of this proposal for EC.
4. Now, the PP has submitted fresh ARRS study report as per EDS raised by SEIAA, Odisha

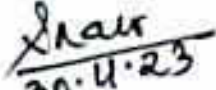
Decision of Authority: Referred to SEAC

The Authority observed that the PP has now submitted revised ARRS through ORSAC empanelled agency by considering the data of 01.06.2023 as pre-monsoon survey and submitting data of 01.11.2023 as post-monsoon survey. After detailed deliberation the Authority decided that the case is referred to SEAC for further re-examination.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


30.11.23
Chairman, SEIAA

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AGENDA NO.143.04	
Proposal No.	SIA/OR/MIN/421545/2023
Date of application	23.04.2022
File No.	421545/916-MINB2/04-2023
Project Type	Proposal for EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for grant of EC for Dangasorada Stone Quarry over an area of 8.00 Acres or 3.23 Ha having Khata No. 51 Plot No. 253/1 in the village Dangasorada, Tahasil Chandrapur in district Rayagada
Name of the company/Organization	Sri Kishore Chandra Harichandan Main Road, Dangasorada Muniguda Odisha Rayagada 765020
Location of Project	village Dangasorada, Tahasil Chandrapur in district Rayagada, State Odisha
ToR Date	N/A
Name of the Consultant	N/A

Proposal in brief:

1. The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
 - (i) This is a proposal for mining of Stone from Dangasorada Stone Quarry over an area of 8.00 Acres or 3.23 Ha having Khata No. 51 Plot No. 253/1 in the village Dangasorada, Tahasil Chandrapur in district Rayagada, State Odisha.
 - (ii) The mining area is a part of Survey of India Toposheet No. E44F10, and the lease area bounded by Latitude: 19°35'44.34"N to 19°35'54.92"N to 20°01'43.50" N and Longitude: 83°39'24.32" E to 83°39'35.18"E.
 - (iii) The mining lease is an identified sairat source in the DSR. The Dangasorada Stone Quarry sairat source will be leased out under the OMMC Rules, 2016 by Tahasildar, Chandrapur to the successful bidder (lessee) on the basis of public auction for a lease period of 5 years.
 - (iv) Documents submitted: -Form-1, D.L.C, PFR, checklist, Mining Plan and approval letter, DSR, Village sheet, Cluster certificate from Tahasildar, topo map etc.
 - (v) Whether submitted KML file of the lease area-Yes
 - (vi) Whether submitted scrutiny fee-Yes of Rs. 1000/- vide e-Challan Ref. No. 359F83C0B7 dt. 09.03.2023.
 - (vii) Distance from nearest sanctuary/ESZ- Karlapat WLS-69.0 Km
 - (viii) Whether the lease area coming in DLC report-No, as certified by Tahasildar, Chandrapur vide letter no. Nil dated 27.02.2023
 - (ix) Whether the lease area reflecting in DSR-Yes but the DSR is not approved as per Hon'ble Supreme Court order dated 10.11.2021
 - (x) Method of mining-Semi-mechanized and blasting will be involved.
 - (xi) Distance from nearest road bridge-4.5 km, village road -0.50 km
 - (xii) Whether it is part of cluster -No
 - (xiii) Whether EC obtained earlier-no clear but as per KML file quarry operated earlier. The PP has mentioned in checklist that EC obtained earlier.
 - (xiv) Date of approval of mining plan- the Joint Director of Geology, Zonal Survey, Koraput on 29.09.2022.

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- (xv) Production capacity per annum-15034 cum/annum (max.), total production in 5 years period-75170 cum, Geological reserve-657530 cum and Mineable reserve-372111 cum.
- (xvi) Whether the DSR has been prepared as per the MoEF& CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020- **No**
- (xvii) EMP budget provision of Rs.1.30 Lakh/annum
- (xviii) Any deficiencies/omission have been noticed in the above documents-Nearest Kotgarh WLS is located within 10km radius from proposed quarry that may be clarify from concerned DFO as final ESZ is not declared by MoEF & CC. The proposed is recently added i.e. on 03.01.2023 in the DSR of Rayagada District.

2. **Whether SEAC recommended the proposal** - The proposal was placed in the SEAC meeting held on 28th 30th June 2023 and the SEAC recommended to grant EC valid from the date of EC accorded up to the lease period with following additional conditions.
- 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.
 - In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured
 - Plantation programme to be completed within first two years and to be maintained in remaining years.
 - Depth of Mining as proposed should not be beyond 6m from the ground level.
 - Mitigation measures for flying Rock for safety be put in place.
 - 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.
 - 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.
 - 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.
 - Controlled blasting shall be adopted. Drilling and blasting operations will be conducted strictly as per the approved mining plan and use of non-explosive blasting material will be encouraged.
 - Overfilling of trucks and consequent spillage of materials on the roads shall be avoided. The trucks shall be covered with tarpaulin. Speed of trucks entering or leaving the quarry is to be limited to moderate speed of 15 kmph to prevent undue noise from empty trucks.
 - The mine drainage will be channelized through small channels connecting to garland drains. The proposed dumps will be well protected by retaining wall, garland drains and settling tank to prevent wash offs of dump. The settling tank will be cleaned regularly to clear the sediments deposited.
 - Plantation will be carried out on approach roads, in the safety zone & in the free govt. land near to the lease area.
 - Water sprinkling on haul roads within the lease area will be adopted to control fugitive dust emission.
3. The proposal was placed in the 127th SEIAA meeting held on 12.07.2023, 13.07.2023 & 14.07.2023 and after detailed deliberation the Authority decided to seek clarification from DFO, Baliguda and DFO Rayagada Forest Division that whether proposed land is coming in Eco-sensitive Zone of Kotagarh Wildlife Sanctuary as well as in DLC or any other forest land.
4. Now, DFO, Rayagada vide letter no. 4457 dt. 03.11.2023 clarified that mentioned that that, the exact distance of the proposed quarry site from the boundary of the Kotagada Wildlife Sanctuary is 13.5 km to 14.3 km and distance of its Eco-sensitive Zone (ESZ) is 5.6 km to 6.2 km. The joint verification report along with the map showing actual distance of the proposed site from the boundary of the Kotagada Wildlife Sanctuary and its Eco-sensitive Zone [ESZ] is enclosed herewith for your information; and necessary action. Further it is inform you that, the DLC repoS of Chandrapur Tahasii has been Verified duly and found that, the proposed area i.e Dangasorada Stone Quarry over an area

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of 8.0 Acres or 3.23 Ha Having Khata no. 51, Plot no. 253/1 in the village Dangasorada under Chandrapur Tahasil is not included in tire DLC forest land. Similarly the same replies from DFO, Baliguda vide letter no. 6376 dt. 14.011.2023

Decision Of Authority: Approved

The Authority perused two separate reports submitted by the DFO, Rayagada Forest Division & DFO, Baliguda Forest Division certifying that the lease area is located outside the Eco-Sensitive Zone (ESZ) of Kotagarh Wildlife Sanctuary and also the lease area does not come under DLC report. After detailed deliberation, the Authority decided to grant EC with usual stipulated conditions as applicable for stone quarry.

- (i) Maximum depth of mining 6.0 meter and maximum quantity of extraction shall be limited to **15034 cum** in 1st year and **15034 cum** in 2nd year.
- (ii) The validity of EC for 1st year and 2nd year or validity of DSR or validity of lease period whichever is earlier.
- (iii) The Grant of EC for further period will be considered after submission of approved DSR by SEIAA as per the MoEF&CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020 and also as per the Hon'ble Supreme Court order vide its order dated 10.11.2021 in Civil Appeal Nos. 3661-3662 of 2020 (State of Bihar Vrs. Pawan Kumar and Others).
- (iv) The Project Proponent (lease holder) shall deposit Rs. 2,00,000/-, with the respective District Environment Society for raising 400 plants (minimum @100 trees per Ha) of native species within 2 years in a suitable location adjoining to quarry.
- (v) The PP will implement the EMP with a budgetary allocation of Rs.1.30 lakh per annum as proposed during the valid lease period of 5 years.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


20.11.23
Chairman, SEIAA

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AGENDA NO.143.05

Proposal No.	SIA/OR/INFRA2/418519/2023
Date of application	13.03.2023
File No.	418519/13-INFRA2/03-2023
Project Type	EC
Category	B1
Project/Activity including Schedule No.	7(d)(a)-Common Bio-Medical Waste Treatment Facility
Name of the Project	Proposal for grant of EC for Setting up of Common Bio-medical Waste Treatment & disposal facility at Khata No-81/17, Plot No-15, at Mouza-Balibad, Tahasil- Soro, District-Balasore including Incinerator, Autoclave, Shredder and Effluent treatment unit.
Name of the company/Organization	Applicant:M/s Utkal Envirocare; Sri. Ganesh Prasad Swain, Director
Location of Project	at Mouza-Balibad, Tahasil- Soro, District-Balasore
ToR Date	02.03.2022

Proposal in brief:

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

- (i) This proposal is for Environmental Clearance of M/s Utkal Envirocare for Common Bio-medical Waste Treatment & disposal facility over an area 1.5 Acre (0.60 Ha) located at Khata No-81/17, Plot No-15, Mouza-Balibad, Tehsil- Soro, District- Balasore filed by Sri Ganesh Prasad Swain, Director.
- (ii) Project details: M/s Utkal Envirocare has proposed for development of Common Bio- Medical Waste Treatment Facility at Khata No-81/17, Plot No-15, Mouza- Balibad, Tehsil- Soro, District- Balasore, Odisha for handling & disposal of Bio medical waste generated within a radius of 150 Km. The proposed CBWTF unit consist of Incinerator, Autoclave, Shredder and Effluent treatment unit. The Incinerator with proper Air Pollution Control Device (APCD) with a capacity of 200 Kg/hr or 3.2 TPD, 2 Nos of Autoclave with a capacity of 125 Kg/hr or 2 TPD, Shredder with a capacity of 125kg/hr or 2 TPD and ETP – 15KLD. The objective for the proposed project is to establish an Integrated Common Bio-medical Waste Treatment facility to handle 300 kg/hr or say 5.2 TPD of Bio-medical waste.
- (iii) ToR details: Terms of Reference (ToRs) was issued by SEIAA, Odisha vide letter no. 4129/SEIAA dtd. 02.03.2022.
- (iv) Location and Connectivity: The Project is proposed to be located at Khata No-81/17, Plot No-15, Mouza-Balibad, Tehsil- Soro, District-Balasore, Odisha. The project site is bounded by geo-coordinates Latitude 21°18'51.04"N and Longitude 86°40'54.72"E bearing Toposheet No F45011.The nearest Highway is NH-16 is at 2.2 Km towards SE of the Project Site which is connected to the site via approach road of 0.2 Km known as Bagudi road. The nearest railway station is Soro railway station at 2.6 km towards SSE from the project site. Nearest airport is Biju Patnaik International Airport at 148 km, SW from the project site. Nearest river is Pitakalia at 8km. Nearest habitation are Balibad – 1.2 km.
- (v) The Kuldiha Wildlife Sanctuary is at 5.5 km from project site and there is no other national park or bird sanctuary within 10 km radius of the project site. The Kuldiha Wildlife Sanctuary has notified the Eco-sensitive zone vide SO 2539(E) dtd 9th August 2017.

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(vi) NOC from D.F.O has been obtained vide letter no. 10978/3F-Lease F. No. 09/2021 Dated. 30/12/2021 mentioning that the proposed project is outside the Eco Sensitive Zone of Kuldiha Wild Life Sanctuary and is at a distance of more than 3 Km.

(vii) Public hearing details: The public hearing for the proposed Greenfield Project for Installation of Common Bio-medical Waste Treatment & disposal facility was conducted on 12.10.2022 at 10.30 AM at Nuapur- Dahipur Melanpodia, Mouza - Dahipur, PO - Radhabalrampur, Tahasil- Soro, District - Balasore. Issues raised during the public hearing were smell due to storage and reprocessing of Bio-medical wastes by the project, apprehension on generation of Methane gas from the unit during storage for the longer period, discharge of effluent from the project site and contaminating the nearby water bodies used by the local people, human settlement present near the proposed project site and providing employment to local people. A total amount of Rs. 2.6 Lakh would be utilized for CER program. Budget allocated for the action plan of the public hearing is Rs. 22.15 lakhs.

(viii) Land-use: The total land, acquired for the facility is 6070.28 Sq.m (1.5 acre). The land use breakup of the proposed facility is as following

S. No.	Facilities	Area (Sq.m)
1.	Plant Facilities (Waste storage rooms, autoclave, incinerator, shredder etc.)	437.06
2.	Administrative and auxiliary facilities	157.83
3.	Rain Water Harvesting Pond	898.40
4.	ETP	700.11
5.	Vehicle Wash	98.29
6.	Green Belt area	2015.33
7.	Parking	178.06
8.	Internal roads	1189.78
9.	Miscellaneous	295.42
	Total	6070.28

(ix) Baseline details: The baseline study was conducted during 1st March 2022 to 31st May 2022 during Pre-monsoon season. Following results have been obtained.

- Respirable Particulate Matter PM_{10} : Maximum value - $85.7\mu g/m^3$ and minimum value - $53.9\mu g/m^3$. The average values to be in the range of 71.9 to $78\mu g/m^3$ and the 98% tile were observed by in the range of 79.7 to $85.7\mu g/m^3$.
- Particulate Matter ($PM_{2.5}$): Maximum value - $48.7\mu g/m^3$ and minimum value - $31.2\mu g/m^3$. The average values to be in the range of 39.2 to $42.9\mu g/m^3$ and the 98% tile was observed by in the range of 45.6 to $48.5\mu g/m^3$.
- Oxides of Nitrogen (NO_2): Maximum concentration of NO_2 - $18.4\mu g/m^3$ and minimum value - $9.5\mu g/m^3$ observed. The average values to be in the range of 12.4 to $14.5\mu g/m^3$ and the 98% tile was observed by in the range of 16.3 to $18.3\mu g/m^3$.
- Sulphur Dioxide (SO_2): Maximum concentration of SO_2 - $9.6\mu g/m^3$ and minimum value - $5.1\mu g/m^3$. The average values to be in the range of 6.5 to $8\mu g/m^3$ and the 98% tile was observed by in the range of 7.6 to $9.6\mu g/m^3$.



- e) Carbon Monoxide (CO): Maximum concentration of CO is observed to be 510 $\mu\text{g}/\text{m}^3$ and minimum value of 200 $\mu\text{g}/\text{m}^3$. The average values to be in the range of 331 to 418 $\mu\text{g}/\text{m}^3$ and the 98% tile was observed by in the range of 450 to 510 $\mu\text{g}/\text{m}^3$.
- f) Ground Water Quality: The pH values observed were in the range of 7.72 to 8.08; with total dissolved solid ranging from 620 mg/l to 780 mg/l. Total Hardness was in the range of 258 mg/l to 300 mg/l. The concentration of alkalinity was in the range of 246 to 290 mg/l.
- g) Surface Water Quality: The pH values observed were in the range of 7.52 to 7.83 with total dissolved solids in the range of 356 mg/l to 510 mg/l. BOD were observed less than 3.1 mg/l. Chloride varied between 84 mg/l & 160 mg/l. Sulphates varied from 16 to 23 mg/l, Nitrate varied from less than 0.8 to 2.2 mg/l.
- h) Soil: It has been observed that the pH of the soil ranged from 7.77 to 7.98 indicating that the soils are slightly alkaline to moderately alkaline in nature. The electrical conductivity was observed to be in the range of 169 to 190 $\mu\text{S}/\text{cm}$. The nitrogen concentrations are in the range of 40 to 56 mg/kg. The phosphorous concentrations are in the range from 2.8 to 3.7 mg/kg.
- (x) Flora and Fauna: No Schedule- I type fauna is found in the study area. No wildlife is found in the study area. No threatened, rare, or endangered plant species are found in the study area. There is elephant corridor within study area where the movement of Elephant has been observed. The Forest department has made barricading in Gangajal Ghati (Protected Forest). The elephant corridor is situated on another side of Damodar River in South at approx. 8 km w.r.t project site.
- (xi) Water Requirement: Total water requirement will be 21 KLD out of which 13 KLD will be fresh water which will be sourced from the Soro Block via Pipeline and rest 8 KLD will be reused after proper treatment.

S. No	Unit Process	Quantity of Water Used (KLD)	Remark
1	Process Water (Autoclave & other process)	9.0	
2	Domestic Purposes	3.0	
3	Green belt	6.0	Recycled -6.0 KLD
4	Vehicle & Floor Washing	3.0	Recycled water -2.0 KLD + Fresh water -1 KLD
	TOTAL	21.0	
	Total fresh water	13.0	
	Total recycled water	8.0	

- (xii) ETP: An ETP of 15 KLD capacity will be established to treat the scrubbed water, floor washings and other wastewater from the plant and recirculate the treated water into the scrubber (APCD) as well as utilize in the greenbelt development making the system as zero discharge system.
- (xiii) Power Requirement: The power required for the facility is 100 KW and will be procured from nearest grid. For emergency backup, a 1 DG set (100 KVA) is proposed.
- (xiv) Fuel Requirement: Diesel which will be used as fuel for incinerator will be stored at the premises. Total quantity of 432 Lit/day will be required and will be stored with storage capacity of 500 liters.
- (xv) Greenbelt: A three tier canopy green belt will be developed with flowering species to abate dust, noise, and odour and to increase the aesthetic value. The green belt will cover 33.19% of the total project area i.e., 2015.28 sqm (0.498 acres). About 350 numbers of saplings are recommended for developing the green belt to abate dust, noise, odour, and soil erosion.
- (xvi) Traffic study: The LOS study shows that the present traffic scenario is "Excellent", and the free flow of vehicles is observed during the study period. Due to the proposed project the traffic density will increase as all the biomedical waste will be transported through the road under study. The traffic conditions through V/C ratio does not change even after the proposed traffic load.

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- (xvii) Required Manpower: 48 persons are proposed to hire for the manpower requirement including skilled and unskilled for the proposed project during operational phase.

Sr. No.	Details	Manpower
1.	Management /Skilled	6
2.	Business Development	5
3.	Management /Skilled	6
4.	Semi-Skilled/supervisory staff	6
5.	Unskilled	8
6.	Drivers	7
7.	Helpers	7
8.	Security	3
	Total	48

- (xviii) Project cost: The cost of the project is Rs 2.60 Crores approximately. Cost towards environmental mitigation measures allocated is Rs. 35.50 lakhs as capital investment and recurring cost of Rs 8.75 lakhs per annum.

S. No.	Particulars	Capital Cost (Rs. in lakh)	Recurring Cost (Rs. In lakhs/ annum)
1	Air Pollution Control Systems wet scrubber etc.	6.0	1.5
2	Effluent treatment plant	5.0	1.0
3	odor management etc.	1.15	0.5
4	Noise Control measures – Acoustic enclosures for DG set, Noise barriers for pumps, boiler, etc.	2.5	0.50
5	Landscaping, Greenbelt development	1.85	1.0
6	Rainwater harvesting, storm water drains	1.5	0.25
7	Online Stack monitoring	10	1.0
8	Ambient Air quality monitoring/ stack monitoring	-	2.5
9	Disposal to Secured Land Fill operator	2.5	0.5
10	CER	5.0	-
	Total	35.5	8.75

- (xix) 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 on 14.02.2023.
 (xx) The PP submitted ADS to SEAC on 10.05.2023.
 (xxi) Any deficiencies/omission have been noticed in the above documents

- 2. Whether SEAC recommended the proposal – Yes.** The SEAC meeting held on 12.07.2023 recommended for grant of Environmental Clearance for the project valid for a period of 10 years with stipulated conditions.
3. The proposal was placed in the 134th meeting of SEIAA held on 07.09.2023 and 08.09.2023 and the Authority observed that the CTE dated 22.07.2016 as well as the lease agreement of the land on 17th August 2015 is in favour of M/s. Utkal Envirocare Solution Pvt. Ltd. which is a register company. While the present applicant Utkal Envirocare which is a partnership firm and therefore a different entity.

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After detailed deliberation the Authority decided that the PP is required to submit CTE and land record in their favour for consideration of EC. Accordingly, the PP has submitted their clarification for consideration of EC.

4. Again, the proposal was placed in the 138th meeting of SEIAA, Odisha held on 10.10.2023 & 12.10.2023 and the Authority perused the submission of PP's letter dated 21.09.2023, and after detailed deliberation on the matter, the Authority decided that the PP is required to submit the land record **failing which the proposal shall be rejected**. Accordingly, EDS was raised by SEIAA, Odisha to PP on 16.10.2023 and now, the PP has submitted its reply dt. 13.11.2023 uploaded in Parivesh Portal on 14.11.2023.

Decision of Authority: Approved

The Authority perused the letter no. 6153 dt. 13.11.2023 of Tahasildar, Soro stating that "the lease deed bearing Doc. No. 10141502508 dt. 17.11.2015 in the name of M/s. Utkal Envirocare Solution Pvt. Ltd. An area Ac. 1.50 out of Ac. 3.64 dec of Plot no. 15, Khata no. 81/17, Mouza-Balibad, Tahasil- Soro, Dist-Balasore has been reported and demarcated in the sketch map by R.I. Dahisada. So, in connection to the report and sketch map of R.I. Dahisada the lease deed Doc. No. 10142302871 (in the name of M/s. Utkal Envirocare) and 10141502508 (in the name of M/s. Utkal Envirocare Solution Pvt. Ltd) are lies in same Plot (Plot No.15, Khata no. 81/17, Mouza-Balibad, Tahasil-Soro, Dist-Balasore) but in different sites. The area of both lease deed is not overlapping".

The Authority also perused the compliant dt. 23.11.2023 by Sri Bipin B. Sarangi requesting not To issue EC unless the case is finalized before Civil Court. However, the Authority noted that there is no stay granted by any Authority/Court for grant of EC.

After detailed deliberation in the matter, the Authority decided to grant EC as per SEAC recommendation with standard and specific stipulation recommended by SEAC for this project.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA

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AGENDA NO.143.06	
Proposal No.	SIA/OR/MIN/240815/2021
Date of application	26.11.2022
File No.	240815/83-MINB2/11-2021
Project Type	EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC for Proposal for Fresh EC of Basinggorja Decorative Stone Mine over an area of 2.428 Hectares in village-Basinggorja, Tahasil- Gunupur District-Rayagada
Name of the company/Organization	Applicant: M/s Stone Fields;
Location of Project	village- Basinggorja, Tahasil- Gunupur District- Rayagada

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

- (i) This is a proposal for Environment Clearance of for Basinggorja Decorative Stone Mines over an area of 2.428 Hectares in village - Basinggorja under Tahasil - Gunupur of District - Rayagada, Odisha of Sri G. R. Samyukta.
- (ii) Basinggorja Decorative Stone Mine over an area of 2.428Ha of M/s. Stone Fileds, Prop-Smt. G.R.Samyukta is located in village Bassinggorja under Gunupur Tahsil of Rayagada District Odisha. The lease was granted to M/s. Stone Fields being the successful bidder for tenure of 20 (Twenty) years from the date on which this executed deed is registered.
- (iii) The Mining Plan has been approved by the Joint Director of Mines, Directorate of Mines, Bhubaneswar, Odisha. under section 2 of Rule 28 (4) of OMMC, 2016 as per clause 5.
- (iv) Mining plan prepared by Sri H.C. Sahoo, vide his IBM's Regn. No. RQP/BBS/033/2001/A was approved on 24.10.2006 by the Directorate of Mines, Odisha, Bhubaneswar for the purpose of grant / execution of the mining lease and mining operation was commenced in FY 2006-07 by the submission of an opening notice to the concerned department of State Govt.
- (v) Subsequently, Scheme of Mining consisting of review of Mining Plan for 5 years from 2006-07 to 2010-11 and year wise development for next 5 years from 2011-12 to 2015-16 was prepared by the RQP, Sri S.C. Nayak, vide his IBM's Regn.No. RQP/CAL/211/95/A and submitted by the Lessee for approval. Scheme of Mining could not be processed for approval due to sad demise of the proprietor, Late G.N.V Naidu.
- (vi) Since the period of submitted Scheme of Mining was valid up to 31.03.2016, the next Scheme of Mining of Basinggorja Decorative Stone Mine over an area of 2.428 hectares prepared by Sri S.C. Nayak vide his DM's registration number RQP/OD/029/2015 under Rule 18(2) of GCDR, 1999 for a period of 5 years from 2016-17 to 2020-21 was approved by the Directorate of Mines, Odisha, Bhubaneswar.
- (vii) Since the approved Scheme of Mining is valid up to 31.03.2021, the present Scheme of Mining has been prepared by the same RQP, Sri S.C. Nayak vide his DM's Regn No.RQP/OD/029/2015, M/s MINESKETCH Consultants (P) Ltd, Flat No.205, Bhagwan Tower, Cuttack Road, Bhubaneswar-751006
- (viii) Location and Connectivity - The lease area under reference featured in the Survey of India Topo sheet no. 65M/16 is on Khata No 9, Plot No.2/p. The geo coordinates of the lease area is 19°06'47.46"N to 19°06'51.60"N & 83°52'11.52"E to 83°52'05.40"E. The area is located 80 km from District Headquarters Rayagada and 246 Km from State Capital Bhubaneswar. Nearest



railway stations is at Gunupur at an distance of 7.8 KM(SE). The lease area can be approached from SH: 4 & NH: 326 (Jeypore highway) at a distance of 7.5 Km & 20 Km. Nearest Airport is Jeypore Airport which is at a distance of 206 Km. There is neither seasonal nor perennial nala within the lease area. Drainage system in the region is dendritic. Surface runoff water in the region will be discharged to the natural drainage course.

- (ix) Reserve Estimation has been calculated as 273486cum.
- (x) The lease has proposed to excavate a total of 24,000 m³ of decorative stone and 4800 m³ (max) annually from Bassinggorja Decorative Stone Quarry. The method of mining is Open cast semi-mechanized. The life of mine is 32 years. A total of 30,000 m³ waste is likely to be generated during the plan period.
- (xi) Power requirement: Power requirement is 100 KVA shall be required for lighting during night time and shall be taken from the State Grid. Necessary permission shall be taken after commencement of the project. Diesel will be used for running of equipments during mining operation. It is estimated that 1 KLD of diesel will be required and same shall be procured from local pump station.
- (xii) Water requirement: Water requirement for the project is 8 KLD for domestic, plantation & dust suppression which will be sourced from Govt sources of water.
- (xiii) Green Belt Development: About 2000 sapling of local species will be planted over an area of 0.4 ha in 7.5m wide safety zone along lease boundary, Haul Road side.
- (xiv) Employment Potential: Total manpower requirement is 42no.s. Administrative & supervisory personnel will be 7 numbers and 32 workers will be employed per day under skilled, semi-skilled & un-skilled category in the quarry with 3 nos. of absentee. Indirect employment through creation of shops/ stalls, hired vehicles etc. also can be generated to full fill the day to day requirements of the mining personnel's.
- (xv) The cost of the project is Rs. 110 lakhs. EMP capital cost of the project is 14.0 Lakh. EMP Recurring cost is 8.80Lakh/Annum. CSR Budget is 9.0 lakh/Annum
- (xvi) The proponent has made a presentation on the proposal before the Committee on 18.05.2022.
- (xvii) The PP submitted ADS to SEAC on 07.10.2022.
- (xviii) The SEAC in its meeting dated 02-11-2022 recommended for grant of Environmental Clearance with stipulated conditions.
- (xix) The proposal was placed in was placed in the meeting of SEIAA held on 13.12.2022 for consideration of EC and the Authority referred back the proposal to SEAC with the following observation:
"In response to ADS raised by SEAC, the PP vide his letter dated 10.07.2022 at Point No.3 has mentioned that production has been done "beyond the limit in approved mining plan". In view of this Suo-moto declaration, the SEAC may re-examined the proposal in the light of MoEF & CC, Govt. of India OM dated 07.07.2021 for any violation.
- (xx) The SEAC in its meeting held on 14.02.2023 sought ADS on the observation of SEIAA.
- (xxi) The PP submitted ADS to SEAC on 14.04.2023.
- (xxii) Any deficiencies/omission have been noticed in the above documents- Nil

2. Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on 13.07.2023 and the SEAC have recommended that SEIAA may treat the case as violation case as the lessee has gone for excess production without environmental clearance and action may be taken in the light of MoEF & CC, Govt. of India OM dated 07.07.2021 for such violation.

3. The proposal was placed in 131st SEIAA meeting held on 10.08.2023 & 11.08.2023 and the Authority accepted the recommendation of SEAC for treating the case as a violation case. The PP is required to submit the following:
- (i) Reports as mention below to be prepared by a NABET accredited Consultant as per MoEF & CC, Gol guideline OM dated 07.07.2021.
 - Damage assessment report

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- Remedial Plan
- Natural & community augmentation plan
- (ii) A certificate from Chartered Accountant with UDIN number on total project cost & total turnover during the period of violation. Accordingly, EDS raised by SEIAA Odisha to PP
- 4. Now, the PP has submitted their reply vide letter ref. no. Ref No: BDSM/3/SEIAA /2023 dt. 30.10.2023 and uploaded in Parivesh Portal on 23.11.2023

Decision of Authority: ADS

The Authority perused the submission dt. 30.10.2023 by the PP with regard to damage assessment plan with the following budget estimate.

Total estimated expenditure for augmentation of violation	
Details	Budget
Estimated Damage Cost	34,94,460.00 Lakh
Cost of Augmentation Plan	
Damage remediation Plan	36.15 Lakh
Natural Resource Augmentation plan	5.1 Lakh
Community resource augmentation plan	7.0 Lakh
Other (Consent fee)	1.34 Lakh
Total estimated expenditure for augmentation of violation	49.59 Lakh

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

- (i) The State Govt. shall take action under the provision of Section-19 of EP Act 1986 and submit the copy of prosecution to SEIAA, Odisha.
- (ii) The PP shall deposit the Bank Guarantee (BG) of Rs. 49.59 Lakh to SPCB towards cost of augmentation plan.
- (iii) The PP shall submit the penalty amounting of Rs.25,36,315/- based on the MoEf & CC, SOP dt. 07.07.2021 and the submit the amount to SPCB, Odisha
- (iv) The PP shall submit the undertaking to implement the EMP Budget of Rs.14.85 Lakh/annum (Capital cost) and Rs. 11.70 Lakh (Recurring Cost)
- (v) The PP shall submit the criminal complaint case no. from the designated court regarding the filling of the violation case.

APPROVED BY


Member Secretary, SEIAA


Member, SEIAA


Chairman, SEIAA



AGENDA NO.143.07	
Proposal No.	SIA/OR/IND1/431883/2023
Date of application	03.06.2023
File No.	431883/39-IND1/06-2023
Project Type	EC
Category	B1
Project/Activity including Schedule No.	2(b)- Mineral beneficiation
Name of the Project	Proposal for EC for Installation of Patabali COB Plant of Capacity 4,95,000 TPA throughput at Village:- Patabali Tehsil:- Danagadi, District:- Jajapur , Odisha of M/s Ferro Alloys Corporation Ltd.
Name of the company/Organization	Sandeep Kittana Acharya, Chief HSE Ferro Alloys Corporation Ltd.
Location of Project	Village:-Patabali Tehsil:-Danagadi, District:- Jajapur , Odisha
ToR issue Date	23.12.2022
Name of Consultant	M/s. Ardra Consulting Services Pvt. Ltd.

- 1. Proposal in brief:** The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.
- (i) This proposal is for Environmental Clearance of M/s Ferro Alloys Corporation Ltd. for Patabali COB Plant of Capacity 4,95,000 TPA throughput over an area of 21.95 Ac. at Village Patabali Tehsil: -Danagadi, District: - Jajpur of Sri Sandeep Kittana Acharya.
 - (ii) **Category:** As per EIA Notification 2006 and its subsequent amendments, the proposed project falls under Schedule 2(b)- Mineral beneficiation of Category "B1"
 - (iii) **TOR details:** SEIAA granted Terms of Reference (TOR) for the proposed project vide file No. SIA/OR/IND/77824/2022 dated 23 December 2022.
 - (iv) **Public hearing details:** The Public Hearing was held on 21.4.2023 (at 11:00 A.M.) at village Patabali under Danagadi tehsil of Jajpur district for Environmental Clearance in respect of M/s Ferro Alloys Corporation Limited, for Installation & operation of Patabali Chrome Ore Beneficiation Plant of Capacity 4, 95,000 TPA throughput at Village-Patabali, Tehsil-Danagadi, District- Jajpur, Odisha. Issues raised during public hearing are health, education, women empowerment, air water and noise pollution control measures, pollution control measures for Ganda Nallah, water conservation, solid waste management, local employment, local area development. Total expenses incurred for action plan of public hearing is Rs. 4,11,00,000.
 - (v) **Location and connectivity:** The project site is located at Village - Patabali, Tehsil - Danagadi, and District - Jajpur of Odisha State. The site falls under the Survey of India Toposheet No. F45N-16 & F45O-4 bounded by Latitude-21° 5' 24.345" N& 21°5' 37.637"N and Longitude- 85° 57' 54.942" E &85°58'6.328"E. The plant footprint will have an area of 21.95 acres located at Village - Patabali, Tehsil - Danagadi, District- Jajpur, Odisha. The project area is accessible through road to the nearby Expressway and is well connected to Duburi, Chandikhole, Jajpur Road and Paradeep through road network. There is no wildlife sanctuary or notified eco-sensitive area within 10 km radius of the project area. The project is situated about 2km from Tomka Railway station. The National Highway No-16 is about 15km and Keonjhar- Paradeep Expressway is 0.01km away from the project area. There is no major habitation around the



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project area and the nearest habitation is Patbali Village at 500m away from the project boundary. There are no 1st or 2nd order natural drainage system within the project area.

(vi) **Baseline study:** Baseline study of the study area was conducted during Summer Season (March to May 2022).

- a) Ambient Air Quality Monitoring reveals that the concentrations of PM₁₀ and PM_{2.5} for all the 8 AAQM stations in the study area on a 24 hourly basis were found between 31.20 to 57.30 µg/m³ and 16.40 to 28.40 µg/m³ respectively. The high value of Particulate pollutant was observed at plant site which can be attributed to industrial activities and vehicular movement. The concentrations of SO₂ and NO_x were found to be in range of 5.10 to 8.80 µg/m³ and 10.10 to 16.50 µg/m³ respectively.
- b) Ambient noise levels were measured at 7 locations around the project site. Noise levels vary from 48.6 to 58.04 Leq dB(A) during day time and from 34.07 to 41.08 Leq dB(A) during night time.
- c) The ground water analysis for all the 5 sampling stations shows that pH value varies from 6.94 to 7.82 & Total Hardness varies from 96 to 125 mg/L.
- d) Surface water analysis for all the 6 sampling stations shows that pH varied from 7.30 to 8.19, Total Hardness varies from 90 to 126 mg/L. & Total Dissolved Solids varies from 68 to 220mg/L.
- e) Soil monitoring was carried out at 6 locations and the analysis results show pH value ranging from 6.9 to 7.5, which shows that the soil is acidic in nature. Organic Matter ranges from 0.62 to 0.92% in the soil samples. Nitrogen is found it ranges from 189.6 to 199.2 Kg/hectare and Phosphorous is from 6.8 to 7.8kg/ha, whereas the Potassium is found to be ranging from 108 to 123 Kg/ha. Soil of the area is found to be suitable for agricultural purposes.

STUDY PERIOD: MARCH - 2022 TO MAY -2022

MONITORING STATION	PARAMETER S	RESULTS	STANDARD
AAQ PARAMETERS AT 8 LOCATIONS	PM _{2.5}	16.4 to 28.4 µg/m ³	60 µg/m ³
	PM ₁₀	31.2 to 57.3 µg/m ³	100 µg/m ³
	SO ₂	5.1 to 8.8 µg/m ³	80 µg/m ³
	NO _x	10.1 to 16.5 µg/m ³	80 µg/m ³
	CO	0.11 to 0.66 mg/m ³	4 mg/m ³
AAQ MODELLING (Incremental GLCs)	PM ₁₀	0.0007 to 0.03 µg/m ³	
	CO	0.005 to 0.330 µg/m ³	
GROUND WATER QUALITY AT 5 LOCATION	pH	6.73 to 7.82	6.5 to 8.5
	Total Hardness	87.36 to 125 mg/l	200 mg/l
	Chlorides	25.91 to 38.99 mg/l	250
SURFACE WATER QUALITY AT 6 LOCATIONS	pH	7.3 to 8.19	5.5 to 8.50 mg/l
	Total Hardness	84 to 126 mg/l	-
	Chlorides	29 to 39.96 mg/l	600 mg/l

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	BOD	2.2 to 2.8 mg/l	3.0 mg/l
	COD	14-20 mg/l	-
	DO	4.7 to 6.1 mg/l.	4(Minimum)
WATER LEVEL	Depth From surface	2.4 mtr to 11.20 Mtr	Varies
NOISE LEVELS AT 7 LOCATIONS	Day Time	48.6 to 58.04	65 dB
	Night time	34.07 to 41.08	55 B

(vii) **Size & Magnitude of Operation:** Chrome ore beneficiation plant of 4, 95,000 Ton/yr feed for maximum production of chrome ore concentrate of 2,97,000Ton/yr (with average 60% recovery rate). The plant will be setup within an area of 21.95acres and the greenbelt will be developed in an area of 7.24acres.

(viii) **Land use pattern:**

SI No.	Land use pattern	Area (Ha.)	Area (Acres)
a)	Truck Parking Area	0.391	0.97
b)	Rom Storage	0.640	1.58
c)	Beneficiation Plant	1.121	2.77
d)	Tsf(Tailing Storage Facility)	1.776	4.39
e)	ETP	0.016	0.04
f)	STP	0.016	0.04
g)	WTP	0.021	0.05
h)	Concentrate Yard	0.177	0.44
i)	Other Infrastructure & Road	1.682	4.15
j)	Electrical Package (Receiving Substation +Electrical Building)	0.113	0.28
k)	Green Belt	2.930	7.24
TOTAL		8.883	21.95

(ix) **Process technology:** The process involves beneficiation of less than 40% Chromite Ore to upgrade it to 48%-52% concentrate. This includes the Hopper, Crusher, Washing, Ball Mill, Zigging and Gravity separation units. The wet tailings will be processed in Thickener followed by Filter press to produce Tailing Cakes, which will be stacked inside the premises in a designated area with impervious lining. The finished product concentrate shall be stored in sheds and raw material shall be stored in separate area and handled by wheel loader for feeding and loading purposes.

(x) **Raw Material:** The Raw Material used will be Chrome Ore of below 40% Grade Cr₂O₃ with 10% moisture with recovery rate equivalent to 40-60%. The finished products generated will be Chrome Concentrate Cr₂O₃ with 7-8% moisture. The total quantity of Raw material as throughput is estimated at 4,95,000 TPA.

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(xi) **Power Requirement:** The specific Power Consumption will be 20 KWHr/Ton of Ore Processing at the proposed Plant and accordingly, to process 4,95,000 TPA Chrome Ore, 2.5 MWH Power is required for this proposed Plant which will be sourced from TPNODL. There will requirement of diesel 46.26MT/Annum, which will be sourced from outside on demand. In Case of Power Failure situation, it is envisaged that a D.G Set of 500 KVA of Kirloskar/Cummins make will be installed which will operate as emergency power back up for the plant during the power cut.

(xii) **Water Requirement:** The makeup water requirement for the proposed project will be 485 KLD including 10 KLD domestic water.

Sl No.	Particulars	Quantity	Source	Mode
1.	Fresh Water Requirement (KLD)	485 KLD	Ground water	Borewell
2.	Power Requirement	2.5 MWH	TPNODL	Under ground Cable
3.	Fuel Requirement (Diesel)	46.26 MT/Annum	Supplier	Road

(xiii) **Waste water management:** The waste water discharged from COB plant will be passing through tailing thickener and filter system and the same water will be recycled & used as process water for the COB Plant. Part of the recycling water will be taking to the ETP and the treated water from ETP will be used for dust suppression, afforestation & other industrial use purpose.

(xiv) **Tailing generation and management:** In the given beneficiation process, 40% by volume tailings will be generated in the form of filter cakes, which needs to be managed efficiently. The Tailing Generation is been calculated as below. Considering the range of concentrate recovery is 40-60% the tailing generation has been taken in higher side i.e. 60% tailing generation. 2,97,000 TPA tailings will be generated. Temporary storing in designated area of 297000 TPA and the accumulated solids from tailing storage yard/facility shall be transferred and disposed for the purpose of backfilling of mine void/reclamation.


(xv) **Greenbelt:** Based on the agro climatic conditions of the region, location of the plant and physico bio chemical properties of the soil strata in addition to the nature of pollutants and their rate of dispersion, Local plant species have been identified for green belt development. The green belt will be developed over 33% of the total project area. Species to be planted are *Shorea robusta*, *Terminalia bellirica*, *Terminalia chebula*, *Terminalia alata*, *Pterocapus marsupium*, *Madhuca indica*, *Anogeissus latifolia*, *Diospyros melanoxylon*, *Dendro calamusstrictus*, *Cleistanthus collinus*, *Cassia fistula*, *Carissa spinarum*, *Combretum roxburghii* etc.

(xvi) **Rainwater harvesting:** The estimated hourly runoff from the area is estimated at 15.206 m³. Considering 90 days of rainfall per year, the daily and annual rainfall is 121.648 m³ and 10948 m³ respectively. This harvestable water has been planned to be stored in an open rainwater harvesting pond of capacity: 1245 Sqm x 4 = 4980 cum.

(xvii) **Manpower Requirement:** The project will generate 84 nos. of manpower, out of which 25 skilled, semi-skilled 36 & unskilled and the rest 23 nos will be recruited as Administrative & Operating personnel and around 250 people will be indirectly engaged in various operations.

(xviii) **Project cost:** The total investment in the project is estimated to be around Rs 55.4 Crores and out of which the firm will take a term loan of Rs 45 Crores and the remaining will be contributed by the promoters from their own source. EMP Cost is Rs. 720 Lakhs (capital Cost) & Rs.90 Lakhs (Recurring Cost).

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Sl. No.	Particulars	Capital Investment (Rs. in lacs)	Recurring Investment (Rs. in lacs)
a)	Air Pollution Control	115	5
b)	Water Pollution Control	45	2
c)	Noise Pollution Control	17	2
d)	Environment Monitoring & Management	87	15
e)	Occupational Health	7	2
f)	Risk control measures	5	Included in the Environmental Monitoring
g)	Safety & Disaster Management Plan	20	5
h)	Green Belt	13	6
i)	PH compliance	411	53
Sub Total		720	90

(xix) **Environment Consultant:** The Environment consultant **M/s Ardra Consulting Services Pvt. Ltd, Bhubaneswar, Odisha** along with the proponent made a presentation on the proposal before the Committee.

(xx) The SEAC in its meeting held on 05-07-2023 decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	Since, part of the land has not been acquired, land document and status of land acquisition of project area to be submitted.	The total project area is 21.95 acre. Out of which, Records of Rights (ROR) has been obtained from the office of Tahasildar Danagadi for 18.30 acre. The said area has also been converted into Industrial purpose (copy of ROR Enclosed). MOU has been signed and executed with the present owners of the balance land for transfer of ownership as well as consent for possession the said land. Presently the total project area is within the boundary and under the actual physical possession of FACOR. Mutation for the balance land is under process. The ROR and MOU are attached in Annexure-1 .	Complied
b)	Permission /Clearance from water resources department for use of ground water.	The evidence of NOC from water resource department is attached in Annexure-2 based on which permission from CGWA is been sought for.	Water Resource dept. has asked the project proponent to apply for Ground water since there is n