

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 02ND JULY, 2024**

The SEAC met on 02nd July, 2024 at 04:00 PM by Virtual mode (VC) through video conferencing in Google Meet under the Chairmanship of Sri Shashi Paul. The following members were present in the meeting.

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

A. CONSIDERATION OF OLD PROPOSALS (COMPLIANCE RECEIVED):

The compliances furnished by the proponents were verified by the members through e-mail and also proceedings of the meeting were confirmed by the members through e-mail. The decision of the committee on case-to-case basis as follows:

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S PRIME INDUSTRIES FOR CHROME ORE BENEFICIATION PLANT WITH THROUGHPUT CAPACITY OF 18,500 TPA WITHIN THE EXISTING CHROME MONOLITHIC UNIT IN RAHANJA INDUSTRIAL ESTATE, VILLAGE RAHANJA OF BHADRAK DISTRICT OF SRI SUMAN SWAIN - TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference (ToR) for obtaining Environmental Clearance of M/s Prime Industries for Chrome ore beneficiation plant with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit in Rahanja Industrial Estate, village Rahanja of Bhadrak District of Sri Suman Swain.
3. **Category:** The proposed project is for beneficiation facility of Chrome ore with throughput of 18500 TPA capacity. The project comes under sector 2 (b) and Category B2 (<20000 TPA) as per EIA Notification 2006 and subsequent amendments (OM dated 24th December 2013).
4. **Project details:** This is an existing unit of Prime industries which is a chrome monolithic unit and is operating since 2015.

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Trayak
Environmental Scientist, SEAC

5. The existing unit is operating with the consent to establish vide CTE letter no 409 dated 03.03.2015 and valid consent to vide letter no. 1003/CTO-2846/2015 on dated 19.05.2022 which is valid for the period up to 31.03.2026 from Odisha State Pollution Control Board.
6. The existing chrome monolithic unit does not attract Environment Clearance as it is only mixing of raw materials without any use of heat and chemical treatment.
7. Existing production from the unit are Chrome Monolithics :18000MT/annum, Refractory Mortar: 18000MT/annum and Ferro Alloy Metals (Reclaimed from Ferro alloy slag): 720 MT/annum
8. **Location and connectivity:** The proposed unit is located at IDCO Plot No-29 & 32, Rahanja Industrial State of Bhadrak District, Odisha. Odisha. The land area required for the project will be 0.198 Acres which comes under Mouza- Ranja bearing Khata no. 1 & 247 and Rev. plot no- 526(p), 527(p) and 528 (p) (sabik) and belongs to the project proponent. The area falls in toposheet number F450/12. Nearest National Highway is NH 16 at a distance of 0.17Km, SEE from the project site. Nearest railway station is at Ranital road railway station located at a distance of 3.30 Km from the project site. The NH- 16 is located at a distance of 0.18km, SEE from the project site. There is no wild life sanctuary, corridor, National Park, biosphere reserve located within 10Km buffer zone of the project site. Nearest Wildlife Sanctuary is Kuldhia Forest & Wildlife Sanctuary located at a distance of 26Km.
9. The proposed project for establishment of Chrome ore Beneficiation plant over an area of 0.798 Acres with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit of M/s Prime Industries. The throughput capacity of the beneficiation unit will be 18500 TPA and beneficiated ore production will be 13800 TPA. The low-grade chrome ore will be procured from mines of OMC, Sukinda through auction process.

Existing product of the project:

- a) Chrome Monolithics :18000MT/annum
- b) Refractory Mortar :18000MT/annum
- c) Ferro Alloy Metals (Reclaimed from Ferro alloy slag) : 720 MT/annum

Proposed unit:

1. Chrome ore Beneficiation Plant: 18500TPA

Units	Products and By Products	Existing	Additional	After Expansion
TPA	Chrome Ore	--	18500	18500

From the Chrome Ore beneficiation will be maximum i.e. 4700 TPA (<10% Cr₂O₃) (25%) will be generated.

MATERIAL BALANCE

INPUT		OUTPUT	
Chrome Ore Beneficiation Plant			
Raw Material (37% Cr ₂ O ₃)	18500 TPA	Beneficiated Ore (50% Cr ₂ O ₃) (Recovery 75%)	13800 TPA
		Tailings (<10% Cr ₂ O ₃) (25%)	4700 TPA
Total	18500		18500

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INPUT			OUTPUT	
		TPA		TPA
Chrome Monolithic Plant				
Beneficiated Ore (50% Cr ₂ O ₃)	12000	TPA	Chrome Monolithic as per Market requirement	18000 TPA
Tailing (<10% Cr ₂ O ₃)	4500	TPA		
Bentonite, Lime and Alumina	1500	TPA		
Total	18000	TPA		18000 TPA

10. Waste generation and management: The major solid waste will be the tailings generated from beneficiation process. The quantity of tailings to be 4700 TPA having <10% Cr₂O₃. The tailing generated will be utilized for blending in the chrome refractory mortar plant and there will be no solid waste dumping in long term. The tailing will be stored in the tailing dump. After drying the tailing will be blended in the chrome refractory mortar as per the demand of the customer. An area has been demarcated for storage of tailing within the plant premises. After beneficiation the tailings will flow down to the settling tank. An area of 225 m² has been earmarked, for storage of tailings and can store dry tailings upto two months. The tailings generated on daily basis will be shifted to the monolithic unit.

19. Baseline Study Details: Baseline study is under progress.

11. Water Requirement and waste water management: Total water requirement for the proposed project will be 153 KLD and make up water requirement will be 13 KLD. Out of the makeup water requirement 1 KLD used for drinking purpose which will be sourced from nearby village through tankers and rest water requirement of 12 KLD will be sourced from Rain Water Harvesting Pond. The water utilized in the process will be recycled resulting in zero discharge of wastewater. The tailing pond of adequate capacity will be constructed with suitable impervious lining to prevent percolation into ground water.

Description	For COB Plant (KLD) NON - MONSOON PERIOD		
	Fresh Water	Recycled	Total
Beneficiation (Make-up) from proposed rain water harvesting unit	3	7	10
Dust suppression	1.0	-	-
Green belt	1.0	-	-
Domestic	1.0	-	3.0
Total	6.0	7.0	13.0

Description	For COB Plant (KLD) MONSOON PERIOD		
	Fresh Water	Recycled	Total

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Environmental Scientist, SEAC

Description	For COB Plant (KLD) MONSOON PERIOD		
	Fresh Water	Recycled	Total
Beneficiation (Make-up) from proposed rain water harvesting unit	3	7	10
Dust suppression	0.5	-	0.5
Green belt	0.5	-	0.5
Domestic	1.0	-	1.0
Total	5.0	7.0	12.0

12. **Power Requirement and solar power details:** The power requirement is estimated as 100 KVA and will be procured from TPCODL, Odisha. Also proposed to install 125 kVA DG set.

13. **Rain water Harvesting Details:** There will be construction of rain water recharge pit used for recharge of rain water in the premises.

14. **Green belt:** Green belt will be developed over an area of 1063 sq.m area with 250 saplings.

PROPOSED GREEN BELT PLAN			
Location	Area Under Plantation (Sq.m)	No. of saplings Proposed	Species Proposed
Green Belt around the plant boundary. Near entrance gate	840 (3m width)	200	Dalbergia sisoo, Cassia siamea, Gmelia arborea, Tectona grandis, Alstonia scholaris, Azadirachta indica, Mangifera indica, Bamboo sps, Phyllanthus emblica, Punica granatum, Psidium guajava, Mimosa elengi, Hibiscus rosa sinensis, Nerium oliander
Plantation in open space (SE part of plant)	223 Sq.m	50	Dalbergia sisoo, Cassia siamea, Gmelia arborea, Acacia sps, Tectona grandis, Alstonia scholaris
Total	1063	250	
The proposed Green belt will be developed within 1 years of the plant operation			

15. **Manpower:** Proposed employment generation from proposed project will be 12 direct employments which includes operator -2, supervisor 2, 4 no of semi-skilled labor and 4 no of unskilled labour.

16. **Project Cost:** Total project cost is approx 5.195 Crore rupees and proposed EMP cost will be 32.0 lakhs and CSR cost will be 10.0 Lakhs.

Sl. No	Particulars	Amount (Rs in Lakhs)
Capital Cost		
01	Pollution Control Measures	18.00
02	Acoustics	5.00
03	Env. monitoring and management	3.00
04	Green Belt Development	2.0
05	Occupational Health & safety	2.0
Total		32.0
Recurring Cost		
01	Environmental Monitoring	3.00

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Sl. No	Particulars	Amount (Rs in Lakhs)
02	Occupational health & safety	1.00
03	Greenbelt Development and maintenance	1.0
Total		5.0

17. **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 on 09.02.2024.

18. The SEAC in its meeting held on dated **09-02-2024** recommended the following:

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

- i) Complete layout of existing monolithic plant and proposed plant.
- ii) Specify the area earmarked for existing and proposed dumping stockyard and submit plant layout for existing and proposed unit.
- iii) Copy of Agreement (MOU) with raw material suppliers for the existing Monolithic plant and proposed chrome ore beneficiation Plant.
- iv) Submit water balance, material balance, chromium content and hexavalent Chromium content in the whole process.
- v) Layout of the whole plant demarcating the settling pond, jigging plant, spiral area, parking area, storage space and Surface Runoff treatment system.
- vi) Submit Particle size analysis.
- vii) The SEAC observed that, the existing land is insufficient for all the total setup of the proposed plant and the Terms of Reference (TOR) can be considered subjected to acquisition of additional land.

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

- i) Environmental compliance of the existing project and adequacy of the land available for setting of the proposed project.
- ii) Construction activities if any carried out for the proposed project.
- iii) Drainage network at the site.
- iv) Discharge point for discharge of treated waste water and distance of the discharge point from the project site.
- v) Area available for tailings management.
- vi) Road connectivity to the project site.
- i) Any other issues including local issues.

19. 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.	Complete layout of existing monolithic plant and proposed plant.	Complete layout showing the existing and proposed plant is given as Annexure 1	Copy submitted

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
2.	Specify the area earmarked for existing and proposed dumping stockyard and submit plant layout for existing and proposed unit.	There will be no separate stacking of raw material for monolithic unit and proposed chrome ore beneficiation. The raw material for chrome ore beneficiation is low grade chrome ore which will be stacked in the existing stack yard and the product of the beneficiation unit will be used as raw material for monolithic plant. However the material stack yard is demarcated in the layout plan.	-
3.	Copy of Agreement (MOU) with raw material suppliers for the existing Monolithic plant and proposed chrome ore beneficiation Plant.	Copy of MoU for raw material sourcing is attached as Annexure 2	Consent letters to supply raw materials to Prime Industries by Kamarda & Sauraubil Chromite mines is submitted.
4.	Submit water balance, material balance, chromium content and hexavalent Chromium content in the whole process.	Water balance and material balance and chromium content in the process is attached Annexure 3	Water balance and material balance submitted.
5.	Layout of the whole plant demarcating the settling pond, jigging plant, spiral area, parking area, storage space and Surface Runoff treatment system.	Layout plan demarcating the settling pond, jigging plant, spiral area, parking area, storage space and Surface Runoff treatment system is attached Annexure 1	Copy submitted
6.	Submit Particle size analysis.	Particle size analysis will be submitted along with the EIA report.	-
7.	The SEAC observed that, the existing land is insufficient for all the total setup of the proposed plant and the Terms of Reference (TOR) can be considered subjected to acquisition of additional land.	Additional area of 0.3 acres has been acquired for the proposed project. The tailing disposal area and rain water harvesting will be constructed in this area. Additional land document is attached as Annexure 4 .	Copy submitted

20. The SEAC in its meeting held on dated 16-05-2024 decided to take decision on the proposal after a site visit of the Sub-Committee of SEAC.

21. The proposed site was visited by the sub-committee of SEAC on **18.06.2024**. Following are the observations of the sub-committee:

- a) The site is allotted by IDCO and is adjacent to the road with drain.
- b) The PP informed that they are now making Monolithic at one side and they want to go for a beneficiation unit of chrome ore at the other side of land. They informed that they have also acquired another piece of land for the same.
- c) The land has space available for beneficiation unit and they need to clean-up the area.
- d) PP was advised the following and asked to submit the following documents if not done:
 - i) Document for ownership of additional land.

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- ii) Layout showing the current unit, Beneficiation plant, raw material storage and products for both, internal road for truck/JCB movements
- iii) All raw materials and products to be under covered place along with retaining wall to protect from any contamination with storm water
- iv) Tailing pond capacity with management plan of effluent load and protection against overflow to be submitted
- v) Material movement plans and load to be submitted as a write-up
- vi) Green belt was there but advised to increase in the new piece of land
- vii) Drainage plans with RWH to be submitted if not done
- viii) All other points asked during presentation.

22. Since it is for TOR and capacity is only 18500 TPA, the sub - committee recommends to issue TOR and the PP may be advised to furnish the following along with other information asked during presentation while applying for EC and incorporate the same in the EIA study report:

- a) Document for ownership of additional land.
- b) Layout showing the current unit, Beneficiation plant, raw material storage and products for both, internal road for truck/JCB movements
- c) All raw materials and products to be under covered place along with retaining wall to protect from any contamination with storm water
- d) Tailing pond capacity with management plan of effluent load and protection against overflow to be submitted
- e) Material movement plans and load to be submitted as a write-up
- f) Green belt was there but advised to increase in the new piece of land
- g) Drainage plans with RWH to be submitted if not done.
- h) All other points asked during presentation.

23. The MoEF&CC, Govt. of India O.M. No. J/13012/12/2013-IA-II(I), dated 24.12.2013 stipulates the Mineral Beneficiation activity listed in the schedule as Category-B will be treated as Category-B2 with throughput $\leq 20,000$ TPA, involving only physical beneficiation.

24. The SEAC, Odisha observed that the proposed Chrome Ore Beneficiation plant is having throughput 18,500 TPA involving only physical beneficiation. However, the Committee opined that the Chrome Ore Beneficiation plant is having significant environmental impact to the surrounding areas in terms of water pollution and tailing disposal and there is a need for detailed EIA study.

25. The SEAC, Odisha recommended to consider the project as Category-B2 as per MoEF&CC, Govt. of India O.M. No. J/13012/12/2013-IA-II(I), dated 24.12.2013 for exemption of public hearing. However, the Committee recommended to consider Environmental Clearance for the proposal after the proponent submits detailed EIA study report.

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Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories Pvt Ltd, Bhubaneswar**, the SEAC recommended to issue Terms of References (ToRs) exempting public hearing for conducting EIA study as per **Annexure – A** with following specific TORs:

- i) Document for ownership of additional land.
- ii) Layout showing the current unit, Beneficiation plant, raw material storage and products for both, internal road for truck/JCB movements
- iii) All raw materials and products to be under covered place along with retaining wall to protect from any contamination with storm water.
- iv) Tailing pond capacity with management plan of effluent load and protection against overflow to be submitted.
- v) Material movement plans and load to be submitted as a write-up.
- vi) Green belt was there but advised to increase in the new piece of land
- vii) Drainage plans with RWH to be submitted if not done.
- viii) Plan for ZLD in details.
- ix) Drain network, tailing/settling pond details
- x) Management of Cr+6
- xi) Particle size analysis.
- xii) Process details in flow sheet of the existing plant along with mass balance.
- xiii) Note on ETP details, disposal of ETP sludge and treatment process.
- xiv) Copy of documentation in support of raw material sourcing for proposed expansion.
- xv) Note on calculation of Surface run off considering the highest rainfall and treatment system to be adopted.
- xvi) Detail plan of handling, storage and disposal of the proposed chrome ore beneficiation plant tailings (4500 ton / year containing <10% Cr₂O₃) as reported by the PP) to be submitted.
- xvii) The proposed chrome ore beneficiation plant is to be in the premises of an existing industrial unit owned and operated by the project proponent. Details of compliance with the CTE and CTO order of the existing operating unit.

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ITEM NO. 02

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. EASTERN ESTATES CONSTRUCTION AND DEVELOPERS PVT LTD FOR EXPANSION OF "DIAMOND CITY, CUTTACK" IS A RESIDENTIAL APARTMENT WITH COMMERCIAL BUILDING ON A LAND MEASURING 2.86 ACRES (11556.61 SQ.M) WHICH IS LOCATED AT VILLAGE: PRATAPNAGARI, NUAGADA, DISTRICT: CUTTACK OF SRI SANJEEV KUMAR - EC

1. This proposal is for Environmental Clearance of M/s. Eastern Estates Construction and Developers Pvt Ltd for Expansion of "Diamond City, Cuttack" is a Residential Apartment with Commercial Building on a land measuring 2.86 acres (11556.61 sq.m) which is located at Village: Pratapnagari, Nuagada, District: Cuttack of Sri Sanjeev Kumar.
2. **Category:** This project falls under Category "B" under 8(a) - Building and Construction projects as per EIA Notification dated 14th Sept, 2006 and its amendments.
3. **Location and connectivity:** The project site is located at Khata No. 96, 985/664, 985/927, 985/928, 985/941, 985/1305, 985/1294, 985/1296, 985/1288, 985/1287, 985/1026, 985/1026, 985/1970, 985/1970 and Plot No. 2340, 2340/3563, 2343, 2333/5410, 2343/5411, 2344, 2334/6142, 2346/5962, 2347, 2347/5956, 2348, 2248/5496, 2248/5497, 2353/6397, 2353/6403 at Village- Pratapnagari, Nuagada, Cuttack, Odisha. The geographical co-ordinates of project site are 20°23'28.19"N & 85°53'6.89"E. The Toposheet no. F45T15. The nearest Airport is Biju Patnaik International Airport which is 17.284 KM away from the project site in SW direction. The nearest railway station is Bhubaneswar New Junction which is 5.337 KM away from the project site in W direction. The nearest ring road is 1.95 KM, SH-16 is 7.36 KM and NH-16 is 0.06 KM away from the project site in ENE, N & SW direction respectively. 5. The Chandaka Reserved Forest is about 11.33 km in SW direction, Nandan Kanan Zoo is about 6.20 km in W direction & Churhanga Reserve Forest is about 7.19km in WNW direction.
4. The site is coming under Cuttack Development Authority.
5. The total plot area is 11556.61 sq.mt./2.86 Acre with total built-up area is 65660.35 sq.mt.
6. Statutory Clearances obtained so far for the project are;
 - a. The project was earlier granted EC by SEIAA, Odisha vide letter no 441322/121-INFRA2/09-2023 dated 30.10.2023 for a total plot area of 2.48 acre or 10039.85 m² and total built-up area of 54,514.323 m².
 - b. CGWA NOC has been obtained vide letter no. CGWA/NOC/INF/ORIG/2023/19261 valid from 18/09/2023 to 17/09/2028.
 - c. The NOC for Water Supply and Sewerage connection has been obtained from Office of the General Manager, WATCO Division, Cuttack vide letter no. 10468 dated 19/09/2022.

7. Comparative Area Statement -

S. No.	Particulars	As per earlier EC granted	Expansion	Total
1	Total Plot Area (Acres)	2.48	0.38	2.86
2	Total Plot Area (Sq.m)	10039.85	1516.76	11556.61
3	Total FAR Area (Including Services) (sq.m)	40346.04	10624.52	50970.56
4	Ground Coverage (Permissible) 40% (sq.m)	4015.94	606.70	4622.64

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S. No.	Particulars	As per earlier EC granted	Expansion	Total
5	Achieved Coverage 35.76% (sq.m)	3865.34	267.35	4132.69 *
6	Non Far (Combined Stilt and Basement built-up area) (sq.m)	12168.26	2521.53	14689.79
7	Miscellaneous Area (Guard Room, STP, UGT etc.) (sq.m)	2000.00	-2000.00	0.00
8	Total Built-up Area (3+8+9) (sq.m)	54514.30	11146.05	65660.35
9	Green belt Area (sq.m) (25% of total plot area)	2514.85	374.30	2889.15
10	Paved Open Green & Avenue Green area (sq.m) (13% of total plot Area)	1305.18	197.18	1502.36
11	Surface Parking Area (sq.m)	880.00	275.66	1155.66
12	Road and Open Area (sq.m)	1857.38	19.37	1876.75
13	Parking (ECS)	396	157	553

8. **The total population** is 3163 Nos (as per earlier EC & Expansion).
9. **Power Requirement:** The power supply is supplied by (Odisha State Electricity Board). The connected load for Project is approx. 2500 KVA (As per earlier granted EC & Expansion). There is provision of 4 no. of DG sets of total capacity 1010 KVA (1*150 + 1*62.5 + 2*400 KVA each) for power back up in the Project. The DG sets is equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.
10. **Water requirement:** During operation phase, the total water requirement will be approx. 393 KLD (After Expansion) out of which fresh water demand will be 256 KLD.
11. **Wastewater details:** The project will generate approx. 334 KLD (After Expansion) of wastewater. The wastewater will be treated in onsite STP of 350 KLD capacity. The treated effluent will be reused for flushing and landscaping purpose. About 163 KLD surplus water in summer season and 166 KLD surplus water in monsoon season will be discharged in existing drain/external sewer.

S. No.	Particulars	As per earlier granted EC (KLD)	Expansion (KLD)	Total (As per earlier granted EC + Expansion) (KLD)
1	Total Water Requirement	280	113	393
2	Fresh Water Requirement	181	76	256
3	Treated Water	100	38	137
4	Flushing Water	91	38	129
5	Wastewater Generated (80% of Fresh + 100% flushing)	235	99	334
6	STP Capacity (Approx. 10% higher than the wastewater generated)	280	70	350

12. **Rainwater harvesting details:** They have proposed for 10 no. of RWH pits of 9.81 cubic meter capacity each within the project site.
13. **Parking details:** Total parking area provided is 14689.79m². Total no. of 553 ECS parking is proposed.

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14. **Solid waste generation:** During the operation phase, the solid waste will be generated as per the below table;

S. No.	Category	Kg per capita per day	Total Waste generated (kg/day)
1	Residents (Nos.)	2778 @ 0.5 kg/day	1389
2	Staff (Nos.)	150 @ 0.25 kg / day	37.5
3	Visitor (Nos.)	335 @ 0.15 kg /day	50.25
4	Landscape waste (2889.15 m ²)	0.71 @0.2 kg/acres	0.142
Total			1476.89

15. **Fire fighting Installations:** Fire fighting measures will be adopted as per the guidelines of NBC. External yard hydrants shall be installed around all buildings in the complex in galvanized steel fire house cabinet (weather proof).
16. **Greenbelt:** Green belt will be developed over an area of 2889.15 sqm which is 25% of the total plot area. Total no. of 150 plants to be planted and 3-meter spacing between plants in 2 tier plantation. There will be a provision of Paved Open Green & Avenue Green area over an area of 1502.36 sqm which is 13% of total plot Area.
17. **Project cost:** The estimated project cost is 87 Crores or 8700 Lakhs and cost for EMP is 1.74 Crores or 174 Lakhs i.e. 2 % of the total project cost.
18. **Environment Consultant:** The Environment consultant M/s. **Oceao-Enviro Management Solutions (India) Pvt. Ltd, Ghaziabad** along with the proponent made a presentation on the proposal before the Committee on 28.02.2024.
19. The SEAC in its meeting held on dated **28-02-2024** recommended the following:
- A. The proponent may be asked to submit the following for further processing of EC application:**
- Comparison table for previous and present status w.r.t. greenbelt, solar power utilization, parking requirement, water requirement and pollution load etc.
 - NOC for water usage; separately for commercial unit and domestic purpose.
 - Revised traffic study report incorporating the additional load in traffic due to revised plan.
 - Mitigation measures to be followed during construction phase.
 - No. of labourers to be employed during the construction period.
 - Explore possibility for solar power utilization by incorporation of rooftop panels.
 - Lightening of the internal roads to be done by utilizing the solar power generated.
- B. The proposed site shall be visited by Sub-Committee of SEAC to verify the followings**
- Environmental settings of the project site.
 - Verify if the site is a flood prone area.
 - Construction activity if any started at the site and extent of construction activity.
 - Road connectivity to the project site.

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- v) Drainage network at the site.
- 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.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC																			
i.	Comparison table for previous and present status w.r.t. greenbelt, solar power utilization, parking requirement, water requirement and pollution load etc.	Comparison table for previous and present status w.r.t. greenbelt, solar power utilization, parking requirement, water requirement and pollution load etc. is enclosed as an Annexure I .	Copy submitted																			
ii.	NOC for water usage; separately for commercial unit and domestic purpose.	<p>There is no building, which is dedicated to commercial purpose. The Block A in the map is facilitating convenient shopping which will be mostly residents of society.</p> <table border="1"> <thead> <tr> <th rowspan="2">Particulars</th> <th colspan="3">Fresh Water Requirement (KLD)</th> </tr> <tr> <th>Residential</th> <th>Commercial</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>As per earlier granted EC</td> <td>179</td> <td>1.3</td> <td>180</td> </tr> <tr> <td>Expansion</td> <td>75</td> <td>0.03</td> <td>76</td> </tr> <tr> <td>Total</td> <td>254</td> <td>1.27</td> <td>256</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • NOC for ground water abstraction has been taken for both commercial and residential block cumulatively. • For earlier EC, 180 KLD (179 KLD for residents & 1.3 KLD for commercials) as required against which NOC for 194 KLD has already been obtained vide NOC No. CGWA/NOC/INF/ORIG/ 2023/19261 dated 18/09/2023. (Annexure II) • Application for additional water requirement submitted to CGWA vide application No. 21-4/4745/OR/INF/2023 dated 22/03/2024 for fresh water demand of 256 KLD. (Annexure III) • Detailed water requirement of the unit is attached as an Annexure IV. 	Particulars	Fresh Water Requirement (KLD)			Residential	Commercial	Total	As per earlier granted EC	179	1.3	180	Expansion	75	0.03	76	Total	254	1.27	256	<ul style="list-style-type: none"> • Fresh water consumption – 256KLD and excess treated water discharge to drain is 163KLD (Non Monsoon) /166KLD(Monsoon) • All required approval copies has been submitted. • Here the PP has mentioned commercial unit will be used by residents only. Same to be added in specific conditions.
Particulars	Fresh Water Requirement (KLD)																					
	Residential	Commercial	Total																			
As per earlier granted EC	179	1.3	180																			
Expansion	75	0.03	76																			
Total	254	1.27	256																			
iii.	Revised traffic study report incorporating the additional load in traffic due to revised plan.	Traffic study had been conducted, considering additional load due to expansion in the project and future 10 years incremental traffic load. Same is attached as an Annexure V .	Traffic Study done by PP. LOS comes to "B" as estimated for expansion in the project and future 10 years incremental traffic load.																			

Proceedings of the SEAC meeting held on 02.07.2024 (Old proposals – compliance received)


 Environmental Scientist, SEAC

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
iv.	Mitigation measures to be followed during construction phase.	Detailed mitigation measures to be followed during both construction phase and operational phase has been enclosed as Annexure VI .	Copy submitted
v.	No. of labourers to be employed during the construction period.	The no. of labours employed during construction phase are: Permanent – 30 No's Temporary – 70 No's	-
vi.	Explore possibility for solar power utilization by incorporation of rooftop panels.	Total Power requirement: 2500 kVA . Total energy conservation proposed: 891.2 kVA (20.4%) Provision of Solar roof panels (grid supply) = 380 kVA (15.2%) <ul style="list-style-type: none"> • Provision of Solar water heater = 25 kVA (1%) • Provision of 40 No's of Solar street lightning = 50 kVA (2%) Calculation of Energy Conservation is attached as an Annexure VII .	Copy submitted
vii.	Lightening of the internal roads to be done by utilizing the solar power generated.	40 No's of Solar Street Lights i.e. 2% of total power requirement (50 KVA) will do lightening of the internal roads. Refer Annexure VII .	Copy submitted

21. The SEAC in its meeting held on dated 16-05-2024 decided to take decision on the proposal after a site visit of the Sub-Committee of SEAC.

22. The proposed site was visited by the sub-committee of SEAC on **08.06.2024**. Following are the observations of the sub-committee:

- a) Two blocks were constructed as per earlier EC. The site was adjacent to the highway and Canal. The PP has constructed about a 40 ft width bridge to connect his land.
- b) All other blocks are yet to be taken up for construction.
The PP was asked to submit the following if not submitted for modified plan:
 - c) Latest situation of drain accessibility, permission from the appropriate authority along with approved plan/drawing for discharge of excess treated water and storm water as there is no existing drain near the land.
 - d) All statutory permission including NOC from airport authority, fire, structure and stability etc.
 - e) Since it is low lying area, PP to submit the revised water balance and increase RWH. Also inform rain water management plan to combat flooding.
 - f) An undertaking that the commercial block to be used only for the residents of that apartment.
 - g) Permission from the authority for constructing bridge over the Canal.
 - h) All other points asked during presentation to be complied.

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J Nayak
Environmental Scientist, SEAC

After detailed discussion, the SEAC decided to take the decision on the proposal after receipt of the following from the proponent as raised during site visit.

- a) Latest situation of drain accessibility, permission from the appropriate authority along with approved plan/drawing for discharge of excess treated water and storm water as there is no existing drain near the land.
- b) All statutory permission including NOC from airport authority, fire, structure and stability etc.
- c) Since it is low lying area, PP to submit the revised water balance and increase RWH. Also inform rain water management plan to combat flooding.
- d) An undertaking that the commercial block to be used only for the residents of that apartment.
- e) Permission from the authority for constructing bridge over the Canal.

ITEM NO. 03

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. SHREE RAM SPONGE AND STEELS PRIVATE LIMITED FOR PROJECT IS FOR THE REGULARIZATION OF THE EXISTING PROJECT OF ROLLING MILL HAVING CAPACITY OF PENCIL / M.S. INGOTS (INDUCTION FURNACE - ONE NO EACH OF 2, 4 & 6 MT/HEAT)-1700 MT/MONTH. ROD, FLATS, ANGLE & CHANNEL-2000 MT/MONTH & PRODUCER GAS - 4200 NCUM / HR OVER AN AREA 10.25 ACRES AT BILAIGARH, PO-LAING, TEHSIL- RAJGANGPUR, DIST-SUNDERGARH OF SRI UMESH SHARMA - 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 of M/s. Shree Ram Sponge and Steels Private Limited for the Regularization of the existing project of Rolling Mill having capacity of Pencil / M.S. Ingots (Induction Furnace -one no. each of 2, 4 & 6 MT/heat) - 1700 MT/Month. Rod, Flats, Angle & Channel-2000 MT/Month & Producer gas - 4200 NCum / hr over an area 10.25 acres at Bilaigarh, Po-Laing, Tehsil - Rajgangpur, Dist – Sundergarh.
3. **Category:** This is a Category – B project which falls under schedule 3(a), Metallurgical Industries (ferrous & nonferrous) as per the EIA Notification 2006 and amendments thereafter. Proposed project is Regularization of Re-Rolling Mill, in compliance to the MoEF&CC Notification dated 20th July 2022, all Cold Rolled Stainless Steel Manufacturing Industries require prior Environment Clearance as per EIA notification 2006.
4. CTE for Expansion proposal for 3rd IF of 6 T capacity for manufacture of M.S Ingot 800 MT/Month & MS Rods, Flats, Angle & Channel 2000 MT/Month issued by OSPCB on 20-06-2006.Existing Industry operated on the basis of CTO obtained from SPCB Odisha vide letter no. 724/CT-0043 dated 26.03.2021 which is valid up to 31-03-2026.
5. **Location and Connectivity:** M/s Shree Ram Sponge & Steel Pvt Ltd is located at Bilaigarh, PO-Laing, Tehsil- Rajgangapur, Dist - Sundergarh, Odisha. The coordinates of the plant area are Latitudes 22°14'3.44"N to 22°14'11.78"N & Longitudes 84°39'22.11"E to 84°39'26.26"E. The nearest railway station is the Kansbahal Railway Station (2.7KM, S) from the site. The nearest airport is at Rourkela Airport (15.6Km, E) from the site. The site is approx. 8.3 Km away from nearest town Rajgangpur Town. Barjore Nala is at 0.02 km East from the project site. Sankh

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J Nayak
Environmental Scientist, SEAC

River is at 1.0 Km ENE from the project site. The nearest State Highway i.e., SH 10 which runs at adjacent to the project site toward south direction.

6. **Topography:** The topography of the plant area is flat in and the slope is downward towards the east direction. The average elevation of site is 195 m AMSL. Range between 194 m AMSL to 196 m AMSL. The perennial river Sankh flows about 1.0 km in the ENE direction of the project site area and forms the main drainage system of the vicinity.
7. **Seismicity:** The project is under very feeble to Zone – III (moderate damage risk zone) [as per IS 1893 (Part-I): 2002]
8. **Project details:**

S. No.	Product	Existing capacity/Quantity	production	Total Regularization	after
1	Pencil/M.S. Ingots (Induction Furnace: One no each of 2,4 & 6 MT/Heat)	1700 MT/Month		1700 MT/Month	
2	M.S Rod, Flats, Angle & Channel	2000 MT/Month		2000 MT/Month	
3	Producer Gas	4200 Ncum/hr		4200 N cum/hr	
	Area	10.25 Acres			

Proposed: It is proposed to the addition of Coal Pulverizer of 1 & 2 within the existing project site.

Sr No	Particulars	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
1	Pulverizer No.1	Closed system	Bag Filter
2	Pulverizer No.2	Closed system	Bag Filter

9. **The land utilization plan:** In total 10.25 Acres of land will be adequate to accommodate the entire planned facilities. The land utilization plan is given below:

S. No.	Land Use	Area (Acres)	Proposed Area	Total area (Acres)	Percentage
1.	Plant Area	5.0	None	5.0	48.78
2.	Internal Road, corridor other, parking, raw material storage, product storage office building etc)	0.86	None	0.86	8.39
3.	Greenbelt	3.39	-	3.39	33.07
4.	Open space	1.0	None	1.0	9.76
	Total	10.25	-	10.25	100

10. Production and Waste Generation details:

Sr. No.	INPUT		OUTPUT	
	Material Balance for Induction Furnaces (Ingots)			
		TPA		TPA
1.	Sponge Iron	17952	M.S Ingot	20,400
2.	Scrap	2244	Slag	1020

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3.	Cast iron/Ferro Alloy	2244	Gases & Fumes	1020
Total		22440	Total	22440

Description	Input	Output
Material balance for Rolled Product		
Ingots/Billets	24686	-
M.S Rod, Flats, Angle & Channel	-	24000
Mill scale	-	343
End Cutting	-	343
Total	24686	24686

11. **Manufacturing process:** Scrap & Sponge Iron form the major raw materials for Pencil/M.S. Ingots making in the induction furnace route. Rolling Mill is being used for Production of Rolled products (M.S Rod, Flats, Angle & Channel). Rolling is a process used to shape metal into a thin long layer by passing it through a gap of two rollers rotating in different directions. At first Pencil/M.S. Ingots from yard send it to reheating furnace where Producer Gas from Coal gasifier is used for heating and then processed to roughing mill than it passes to intermediate mill and finishing mill respectively. From there it will send it to QTB system for pinch roll & dividing shear and then to cutting with cold shear and bundle it for final dispatch. Now it is proposed to addition of coal pulveriser 1 & 2.

12. **Waste Generation and Management:**

Particulars	Type of waste	Existing (TPA)	Total (TPA)	Treatment/ disposal
-	STP Sludge	0.5 Kg/Day	0.5 Kg/Day	Will be used as manure for gardening
Municipal Solid Waste	Biodegradable	10	10	It is being Send to Municipal corporation, Sundergarh
Industrial waste	Mill scale	343	343	Reused in SMS
Industrial waste	End Cutting	343	343	Reused in SMS
Industrial waste	Slag	1020	1020	Slag will be crushed and metal part will be recovered by magnetic separator and rest part will be used for road construction.

S.No	Type of Solid waste	Quantity (TPA)	Disposal Proposed
1.	Bottom Ash	1400	Will be used in land filling.
2.	Tar residue	0.2	Sold to Authorized Coal tar processing units
Hazardous Waste			
1.	Used oil	1.5	Storage in containers over impervious floor under well-ventilated covered shed followed by disposal through actual users having valid authorization from SPCB, Odisha.

13. **Water requirement:** Total one-time water requirement is 111 KLD. Total daily fresh water requirement will be 45 KLD. Recycled water 66 KLD. The source of water is Ground water.

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Environmental Scientist, SEAC

CGWA NOC has been renewed from CGWA vide letter no.- CGWA/NOC/IND/ORIG/2021/12270 dated 15.10.2020 valid up to 14.10.2023 to tune of 93 KLD. The source of water will be Ground water.

14. **Wastewater management:** The sewage & sanitary wastewater from toilets, washrooms and canteen shall be treated in STP and treated water will be used for greenbelt development. Blow-down water from cooling systems will be utilized for the plant through closed circuit cooling system. Wastewater from the CCM and rolling mills are likely to contain scale and oil & grease. This water will be collected in settling tank fitted with an oil & grease skimmer. The clarified water will be re-used in the plant. Oil & Grease shall be collected in drums and sold to secondary market for recycling.
15. **Power Requirement:** Total power requirement for proposed project is 5000 kVA and it is being sourced from State Electricity Board.
16. **Green belt:** Green belt is being developed at least in 33.07% of total plant area in and around the plant premises for environmental protection as per CPCB/OPCB guidelines. In the existing project 3.39 Acres of land i.e., 33.07% of total land plant area of 10.25 Acres has been provided a natural barrier for attenuation of noise and air pollution.
17. **Baseline study details:** Baseline data to be collected during post monsoon from October to December 2023.
18. **Manpower:** The existing employment is around 175 persons and contractual labours -140 Nos.
19. **Project Cost:** The expected cost of the project is Rs.5.45 crores. EMP cost includes a capital cost of 80.0 Lakhs and a recurring cost of 30 Lakhs/Annum.

S. No.	Particulars	Amount in INR, Lakhs	
		Capital Cost	Recurring Cost
1	Air Pollution Control System	30	7
2	Noise Control System	5.72	2
3	Green Belt Development	11.28	2
4	Environment Monitoring and Management	8	6
5	Water Pollution Control System	20	8
6	Occupational Health & Safety	5	5
Total		80	30

20. **Environment Consultant:** The Environment consultant M/s Parivesh Environmental Engineering Services, Lucknow along with the proponent made a presentation on the proposal before the Committee.
21. The SEAC in its meeting dated 28-08-2023 recommended the following:
 - A. The proponent may be asked to submit the following for further processing of TOR application:
 - a) Air Pollution Control Measures adopted at present.
 - b) Copy of permission from water resource department for using ground water.
 - c) Details of spent refractions in terms of generation and permission for its disposal/selling to authorized vendors as they are hazardous.

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- d) Details of supporting documents/NOC from concerned authority for landfill of hazardous waste products and specify the area with layout.
- e) Details of fly/bottom ash generation and its management with material balance from Producer Gas Plant.
- f) All copies of Consent to Establish, Consent to Operate and Authorization granted by the Board to different units such as Induction Furnace, Producer Gas Plant, Rolling Mill and other units if any.

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

- a) Environmental settings of the project site.
- b) Extent of construction activity and operational status of all the units.
- c) Road connectivity to the project site.
- d) Drainage network at the site.
- e) Greenbelt development in the existing plant.
- f) Solid waste management practice of the existing plant.
- g) Vacant land available.
- h) Any other issues including local issues.

22. 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
viii.	Air Pollution Control Measures adopted at present.	Particular	Control equipment	Max Emission at the outlet	Monitoring	
		Reheating Furnace	Wet Scrubber with Chimney of 30 m	PM<150 mg/Nm ³	Periodically Stack monitoring is being done.	
		Induction Furnace	Adequate Stack height, bag house, Fume Extraction system with bag filters, 30 m stack height	PM<150 mg/Nm ³		
		Coal Gasifier	Tar control system with Electrostatic Tar Seperator			
		Roads	Roads are Paved inside	-		

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J Nayak
Environmental Scientist, SEAC

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent				Views of SEAC																									
			the plant premises																												
		Vehicles	completely Covered Trucks & PUC Certified Vehicles is being/will be used	-																											
ix.	Copy of permission from water resource department for using ground water.	Copy of permission obtained from CGWA is enclosed as Annexure 1				NOC from CGWA for 93KLD has been taken valid till 14-10-2023. Permission from Water Resource department, Odisha for using ground water has not been submitted.																									
x.	Details of spent refractories in terms of generation and permission for its disposal/selling to authorized vendors as they are hazardous.	150 TPA Spent refractories is being generated Management: Spent refractories have been used largely in open-loop recycling applications such as roadbed aggregates.				-																									
		<table border="1"> <thead> <tr> <th>Furnace Operation / Area of Application</th> <th>Refractory Specifications (Std. Specfn)</th> </tr> </thead> <tbody> <tr> <td>Melting Mild Steel, Stainless Steel, Manganese Steel & Alloy Steels</td> <td>Type= Mag-Chrome R/M, MgO%= 70- 85, Cr2O3%= 8-10, Sintering Temp (ST)= 800OC, Application Temp (AT)= 1750OC, Grading= 0-5 mm</td> </tr> </tbody> </table>		Furnace Operation / Area of Application	Refractory Specifications (Std. Specfn)	Melting Mild Steel, Stainless Steel, Manganese Steel & Alloy Steels	Type= Mag-Chrome R/M, MgO%= 70- 85, Cr2O3%= 8-10, Sintering Temp (ST)= 800OC, Application Temp (AT)= 1750OC, Grading= 0-5 mm																								
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xi.	Details of supporting documents/NOC from concerned authority for landfill of hazardous waste products and specify the area with layout.	Used oil of 0.5 KL/Annum is generated. Management: Storage in containers over impervious floor under well-ventilated covered shed followed by disposal through actual users having valid authorization from SPCB, Odisha. The storage area for used oil is specified in layout plan and enclosed as Annexure-2.				-																									
xii.	Details of fly/bottom ash generation and its management with material balance from Producer Gas Plant.	<table border="1"> <thead> <tr> <th colspan="3">INPUTS</th> <th colspan="2">OUTPUTS</th> </tr> <tr> <th>S.No.</th> <th>Item</th> <th>Quantity (TPA)</th> <th>Item</th> <th>Quantity (TPA)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Coal</td> <td>4800</td> <td>Producer Gas</td> <td>4200 N cum/hr</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Tar (KL/Annum)</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Bottom Ash</td> <td>1400</td> </tr> </tbody> </table>		INPUTS			OUTPUTS		S.No.	Item	Quantity (TPA)	Item	Quantity (TPA)	1.	Coal	4800	Producer Gas	4200 N cum/hr				Tar (KL/Annum)	3				Bottom Ash	1400			-
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Environmental Scientist, SEAC

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		Bottom Ash is being used for land filling	
xiii.	All copies of Consent to Establish, Consent to Operate and Authorization granted by the Board to different units such as Induction Furnace, Producer Gas Plant, Rolling Mill and other units if any.	Copies of all CTO and CTE is enclosed as Annexure-3	CTE obtained on 20-06-2006 and latest CTO is valid till 31-03-2026.

23. The SEAC in its meeting held on dated **29-12-2023** decided to take decision on the proposal after site visit of Sub-Committee of SEAC.

24. The proposed site was visited by the sub-committee of SEAC on **20.05.2024**. Following are the observations of the sub-committee:

- The plant is located close to the Biju Expressway and was under operation at the time of the site visit.
- It was noticed that the plant has a well-developed drainage network. The water is channelized to a storage tank and reused after treatment.
- The project proponent has developed and maintained a green belt close to the express way. Moreover, greenery has also been maintained in the vacant spaces within the plant premises.
- The coal is used in a gasification unit and the tar is recovered sold to outside agencies. A very small amount of slag and fly ash is generated, which is used for landfilling.
- Here is no sewage treatment plant. The process water is being treated and reused.
- The PP was advised to put adequate number of recharge pits and channel the runoff after treatment to these pits for ground water recharge.

25. The recent EIA notification of MoEF&CC, Govt. of India vide S.O. 2215(E), dated 07.06.2024 stipulates the requirement of Environmental Clearance for secondary metallurgical industry for non-toxic metals under project or activity 3 (a) as follows:

ii) Processes involving melting of nontoxic metals			The Standalone rolling or re-rolling or extrusion or piercing or forging or drawing units not involving any type of melting or pickling are exempted.
Fuel in the furnace	Category B2	Category B1	
1. Solid or liquid fuel	≥ 0.03 MTPA to < 0.06 MTPA	≥0.06 MTPA	
2. Gas fuel or electricity	≥0.06 MTPA to < 0.12 MTPA	≥0.12 MTPA	
iii) Processes involving only heating of nontoxic metals with pickling			
Fuel in the furnace	Category B2	Category B1	
1. Solid or liquid fuel	≥0.06 MTPA to < 0,12 MTPA	≥0.12 MTPA	
2. Gas fuel or electricity	≥0.12 MTPA to < 0.18 MTPA	≥0.18 MTPA	

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Environmental Scientist, SEAC

26. The Committee observed that the present proposal is for Producer Gas based Rolling Mill without any pickling facility with annual production capacity of rolled product 24000 TPA and production of MS ingot (induction furnaces) - 20400 TPA. The MoEF&CC, Govt. of India EIA notification vide S.O. 2215(E), dated 07.06.2024 stipulates "processes involving melting of non-toxic metals in gas or electricity-based furnace will require EC for production capacity ≥ 0.06 MTPA i.e. ≥ 60000 MTPA". Since, the total production capacity of the unit is < 60000 TPA, the unit does not require EC as per the above notification.

After detailed discussion, the SEAC opined that Environmental Clearance is not required for the unit as per recent notification of MoEF&CC, Govt. of India vide S.O. 2215(E), dated 07.06.2024 and recommended that SEIAA, Odisha may consider to intimate the same to the proponent.

ITEM NO. 04

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. SUBHLABH CEMENTS PRIVATE LIMITED FOR REGULARIZATION OF THE EXISTING PROJECT OF SUBHLABH CEMENT PVT. LTD. HAVING CAPACITY OF 90,000 MT/ANNUM, (TMT BAR, ANGLE, CHANNEL, FLATS, SQUARE BAR AND ROUNDS, MS PLATE, MS STRIPS, MS PIPES, MS SHEETS ETC.) OVER AN AREA 5 ACRES LOCATED AT MANDIAKUDAR, TEHSIL-RAJGANGPUR, DIST.-SUNDARGARH OF SRI SANJOJ KUMAR AGARWAL - 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 of M/s. Subhlabh Cements Private Limited for Regularization of the existing project of Subhlabh Cement Pvt. Ltd. having capacity of 90,000 MT/Annum, (TMT Bar, Angle, Channel, Flats, Square Bar and Rounds, MS Plate, MS Strips, MS Pipes, MS Sheets etc.) over an area 5 Acres located at Mandiakudar, Tehsil-Rajgangpur, Dist.- Sundargarh of Sri Sanjoj Kumar Agarwal.
3. **Category:** This is a Category – B project which falls under schedule 3(a), Metallurgical Industries (ferrous & nonferrous) as per the EIA Notification 2006 and amendments thereafter.
4. **Location and Connectivity:** M/s Subhlabh Cement Pvt. Ltd is located at Khata No.- 124/285, Plot No.-1212/1740, Village-Mandiakudar, Tehsil-Rajgangpur, Dist.-Sundargarh, Odisha. The coordinates of the plant area are $22^{\circ}13'45.37''N$ to $22^{\circ}13'48.95''N$ & $84^{\circ}41'36.41''E$ to $84^{\circ}41'45.26''E$. The nearest railway station is the Kalunga Railway Station (4.0 KM, ESE) from the site. The nearest airport is at Rourkela Airport (12 Km, E) from the site. The site is approx. 12 Km away from nearest town Rajgangpur Town. Sankh River is flowing at a distance of 0.85 Km North from the project site. The State Highway (SH-10) runs at a distance 0.15 Km to the project site toward south direction.
5. **Topography:** The topography of the plant area is flat in and the slope is downward towards the east direction. The average elevation of site is 192 m AMSL. Range between: 192 m AMSL to 194 m AMSL. The perennial river Sankh forms the main drainage system of the vicinity.
6. **Seismicity:** The project is under very feeble to Zone – III (moderate damage risk zone) [as per IS 1893 (Part-I): 2002]
7. **Project details:**

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J Nayak
Environmental Scientist, SEAC

Sr. No	Name of product	Existing capacity (Ton/Annum)	After regularization Total Capacity (Ton/Annum)
1	TMT Bar, Angle, Channel, Flats, Square Bar and Rounds	36,000	36,000
2	MS Plate, MS Trips, MS Pipe, and MS Sheet	54,000	54,000
	Total capacity	90,000	90,000

Sr No	Particulars	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
1	Pulverizer No.1	Closed system	Bag Filter

8. The land utilization plan: In total 5 Acres (20234.28 Sqm.) of land will be adequate to accommodate the entire planned facilities. The land utilization plan is given below:

Land Use	Area (Sqm)	Expansion as per CTO dated 03.06.2022	Area (Sqm)	Percentage (%)
	Existing		After Regularization	
TMT MILL - 15 TPH & MACHINE SHOP	2520	-	2520	12.454
MS HOT STRIP MILL - 15 TPH	-	2000	2000	9.884
MS TUBE MILL -15 TPH	-	1800	1800	8.895
ANCILARY UNITS	200	200	400	1.976
WATER TREATMENT PLANT	-	350	350	1.73
GREENBELT	6880	-	6880	34
INTERNAL ROAD	2500	1150	3650	18
WASTE HANDLING AREA	4	-	4	0.02
PLASTIC WASTE STORAGE SHED	4	-	4	0.02
OPEN AREA	8126.28	-	2626.28	12.98
Total Land Area	20234.28		20234.28	100

9. Production and Waste Generation details:

Sr. No.	INPUT	TPA	OUTPUT	TPA
1.	MS Billets/ Ingot	96000	TMT Bar, Angle, Channel, Flats, Square Bar and Rounds	36000
2.			MS Plate, MS Trips, MS Pipe, and MS Sheet	54000
3.			End Cutting /Mill scale	6000
Total		96000	Total	96000

10. **Manufacturing process:** Rolling Mill is being used for Production of Rolled products (MS Plate, MS Trips, MS Pipe, and MS Sheet, TMT Bar, Angle, Channel, Flats, Square Bar and Round). Rolling is a process used to shape metal into a thin long layer by passing it through a

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gap of two rollers rotating in different directions. M.S. Ingots from the yard is taken to reheating furnace where pulverized coal is used as fuel for heating and then processed to roughing mill than it passes to intermediate mill and finishing mill respectively. From there it will send it to QTB system for pinch roll & dividing shear and then to cutting with cold shear and bundle it for final dispatch.

11. Waste Generation and Management:

Sr. No.	Type/Name of waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/Annum)		Management of HW
				Existing	Total	
INDUSTRIAL SOLID WASTE						
1	End Cutting /Mill scale	End Cutting	-	6000	6000	End cutting are being given to nearby IF Unit
4	Municipal Solid Waste (Kg/ day) @0.20kg/person	-	-	15	15	It is being Send to Municipal corporation, Rourkela

Sr. No.	Type/Name of waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/Annum)		Management of HW
				Existing	Total	
HAZARDOUS WASTE						
1	Used oil	Machinery	5.1	0.5	0.5	Collection, storage, Reuse within premises OR transportation, disposal by selling to registered recycler
2	Dust from Bag filter	Pulverizer	35.1	36	36	Collection, storage and sold to brick manufacturers

12. **Water requirement:** Total one-time water requirement is 43.5 KLD. Total daily fresh water requirement will be 30 KLD. Recycled water 13.5 KLD. The source of water is Ground water.

13. **Wastewater management:** The domestic wastewater from toilets, washrooms and canteen will be treated in STP and treated water will be used for greenbelt development. Waste water from the rolling mills is likely to contain scale and oil & grease. This waste water will be treated in treatment system consists of settling tank fitted with an oil & grease skimmer. The clarified water is being re-used in the plant. Oil & Grease is being collected in drums and sold to Authorized recycler for recycling.

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14. **Power Requirement:** Total power requirement for proposed project is 3500 KVA and it is being sourced from State Electricity Board.
15. **Green belt:** In the existing project 6880 Sqm of land i.e., 34% of total land plant area of 20234.28 Sqm has been provided a natural barrier for attenuation of noise and air pollution
16. **Baseline study details:** Baseline data to be collected during post monsoon from October 2023 to December 2023
17. **Manpower:** The existing employment is around 77 Persons and contractual labour-140 Nos.
18. **Project Cost:** The expected cost of the project is Rs.985 Lakhs. EMP cost includes a capital cost of 68 Lakhs and a recurring cost of 20 Lakhs/Annum.
19. **Environment Consultant:** The Environment consultant **M/s Parivesh Environmental Engineering Services**, along with the proponent made a presentation on the proposal before the Committee on 20.10.2023.
20. The SEAC in its meeting held on dated **20-10-2023** recommended the following:

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

- i) Copy of company registration certificate, Consent to Establish and Consent to Operate order of existing and expansion project.
- ii) Details of Air Pollution Control measures provided in the existing reheating furnaces.
- iii) Comparison statement of present plant and machineries with its capacity vs proposed plant and machineries with capacity.
- iv) Justification why this will be not considered as violation case.

B. Following specific ToRs may be prescribed while issue of Terms of References.

- i) Revised layout map indicating location details, name of the species to be planted and to carry out the plantation in all the sides of the project site as the project proponent has submitted layout of greenbelt showing the plantation area only on two sides of the site
- ii) Copy of permission obtained from CGWA for drawl of ground water.
- iii) Detailed note on generation and quantity of disposal of end cuttings along with specific disposal method of end cuttings and agreements made with the end users thereof supported with documentation.
- iv) Include provision of Rainwater harvesting Pits.
- v) Include provision for installation of STP for treatment of domestic effluent and submit the detailed specification.
- vi) Details of ash management, quantity of coal burnt and provision of dust control system for handling pulverized coal and coal grinding unit.
- vii) Details of ash management such as quantity sold to dealers and disposal methods.
- viii) Detailed note on coal stock yard and coal handling management.
- ix) Details of storage of used oil and fire safety/ management.

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- x) Explore possibility to include provision for use of Solar power and cleaner fuel (CNG)/producer gas instead of coal.
- xi) Include the provision of cyclone and heat exchanger to reduce the temperature of flue gas before the Bag filter.

C. The proposed site shall be visited by local members of SEAC along with officer of Regional office of State Pollution Control Board to verify the followings:

- a) Environmental settings of the project site.
- b) Extent of construction activity and operational status of all the units.
- c) Road connectivity to the project site.
- d) Drainage network at the site.
- e) Greenbelt development in the existing plant.
- f) Solid waste management practice of the existing plant.
- g) Vacant land available.
- h) Any other issues including local issues.

21. 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
i.	Copy of company registration certificate, Consent to Establish and Consent to Operate order of existing and expansion project.	Copy of company registration certificate is enclosed as Annexure-I.						Copies submitted
		Sr. No	Particular	Product	Date of issue	Validity	Capacity	
		1.	CTE vide no 1186 dated 16.04.2018	TMT Bar, Angle, Channel, Flats, Square Bar and Rounds	16.04.2018	-	36000 Metric Ton/Annum	
		2.	CTO order no 0678/SPCB/RKL (APC & WPC) (2865)	TMT Bar, Angle, Channel, Flats, Square Bar and Rounds	02.11.2018	31.03.2020	36000 Metric Ton/Annum	
		3.	CTO order no 0678/SPCB/RKL (APC & WPC) (353)	TMT Bar, Angle, Channel, Flats, Square Bar and Rounds	05.02.2020	31.03.2025	36000 Metric Ton/Annum	
4.	CTE for	MS	03.06.2022	31.03.	54,000			

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent					Views of SEAC
		enhancement of production capacity vide letter no 1676/CTO-1152	Plate, MS Strips, MS Pipe and MS Sheets		2026	TPA	
Consent to establish and consent to operate order of existing and expansion project is enclosed as Annexure-II.							
ii.	Details of Air Pollution Control measures provided in the existing reheating furnaces.	Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of emissions i.e., Air Pollutants	Air Pollution Control Measures (APCM)	-
		1.	Reheating Furnace	30	Particulate matter SO2 NOx	Primary and Secondary fume Extraction system+ Bag Filter +Settling chamber	
iii.	Comparison statement of present plant and machineries with its capacity vs proposed plant and machineries with capacity.	Sr. no.	Existing	Proposed expansion as per vide letter no 1676/CTO-1152			-
		1.	TMT mill 15 TPH & Machine shop	-			
		2.	-	MS hot strip mill 15 TPH			
		3.	-	MS tube mill 15 TPH			
		4.	-	Water Treatment plant			
		5.	Transformer	-			
		6.	Weigh bridge	-			
		7.	Charging table with pusher	-			
		8.	Pulveriser	-			
		9.	Reheating Furnace	-			
		10.	Roughing mill	-			
		11.	Overhead Crane	-			
		12.	Intermediate mill	-			
		13.	Finishing mill	-			
		14.	Roller Table with coolingbed	-			
		15.	-	Producer gas plant			
		16.	-	Cooling tower			
		17.	-	Transformer 5000 kVA circuit breaker room			
		18.	-	DG set 250 kVA			
		19.	-	Finishing mill 5 NOS			
		20.	-	Vetical mill stand 2 Nos			
		21.	-	Overhead crane 15 & 5 Ton			
		22.	-	Coil shifter conveyor 2 Nos			
		23.	-	Twister and pinch roller 2 Nos each			
		24.	-	Tube mill Uncoiler -4 Nos Profiling mill with guide Online robotic welding			

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent			Views of SEAC
				machine End trimming Finishing mill Shear Fished pipe bed Overhead crane 10 & 5 Ton	
iv.	Justification why this will be not considered as violation case.	<ul style="list-style-type: none"> ➤ The unit is Standalone rolling/ re-rolling units and not covered under purview of EIA notification. However, the industry has obtained CTE and CTO from state pollution control Board. ➤ Further in compliance to the MoEF&CC Notification dated 20th July 2022 the application has been made for Regularization of existing rolling/ re-rolling units. 			-

22. The SEAC in its meeting held on dated **29-12-2023** decided to take decision on the proposal after site visit of Sub-Committee of SEAC.

23. The proposed site was visited by the sub-committee of SEAC on **20.05.2024**. Following are the observations of the sub-committee:

- a) The plant was under partial shutdown at the time of the visit.
- b) There is no sewage or effluent treatment plant. There is also no proper drainage network. The process water is routed to a storage tank and is being recycled.
- c) The overall slope in the plant area is towards north-west direction and the storm water flows in this direction. The project proponent was advised to create settling tanks followed by recharge pits in the north west corner of the plant and utilize the water for various activities such as dust suppression, plantation etc., and reduce the dependency on ground water. The detailed layout and design are required to be shown at the time of presentation for Environmental Clearance.
- d) A green belt of 6880m² as mentioned in the document submitted was not observed in the plant premises. Only a few saplings have been planted close to the southern boundary (Figure 2) which is not found to be adequate. The PP was advised to designate specific areas and develop a green belt and show the details on layout overlaid on KML file and submit the same for environmental clearance.

24. The recent EIA notification of MoEF&CC, Govt. of India vide S.O. 2215(E), dated 07.06.2024 stipulates the requirement of Environmental Clearance for secondary metallurgical industry for non-toxic metals under project or activity 3 (a) as follows:

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ii) Processes involving melting of nontoxic metals			The Standalone rolling or re-rolling or extrusion or piercing or forging or drawing units not involving any type of melting or pickling are exempted.
Fuel in the furnace	Category B2	Category B1	
1. Solid or liquid fuel	≥ 0.03 MTPA to < 0.06 MTPA	≥0.06 MTPA	
2. Gas fuel or electricity	≥0.06 MTPA to < 0.12 MTPA	≥0.12 MTPA	
iii) Processes involving only heating of nontoxic metals with pickling			
Fuel in the furnace	Category B2	Category B1	
1. Solid or liquid fuel	≥0.06 MTPA to < 0.12 MTPA	≥0.12 MTPA	
2. Gas fuel or electricity	≥0.12 MTPA to < 0.18 MTPA	≥0.18 MTPA	

25. The Committee observed that the present proposal is coming under category B1 as per MoEF&CC, Govt. of India EIA notification vide S.O. 2215(E), dated 07.06.2024 as described at para 24 above.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Parivesh Environmental Engineering Services, Lucknow**, the SEAC prescribed the ToR as per **Annexure – B** for conducting detailed EIA study with following specific ToRs without conducting public hearing:

- i) There is no sewage or effluent treatment plant. There is also no proper drainage network.
- ii) The project proponent was advised to create settling tanks followed by recharge pits in the north west corner of the plant and utilize the water for various activities such as dust suppression, plantation etc., and reduce the dependency on ground water. The detailed layout and design are required to be shown at the time of presentation for Environmental Clearance.
- iii) The Project proponent shall not increase the connecting load from the state grid 20% more than the existing load.
- iv) Note on existing green area and proposed green area.
- v) Furnish details on types of alloys, its composition obtained from suppliers, types of billets/ingots manufactures and quantity of billet production etc.
- vi) The Project proponent shall provide supporting documents like Memorandum of Understanding (MoU) with Raw material suppliers in EIA report.
- vii) Detailed note on slag processing, composition of slag, facilities provided for processing along with flowchart for the same.
- viii) The Project Proponent shall clarify whether the slag will be used in land filling purpose; if so then area earmarked, how much period it can be stored and method of storage for it. If the Project Proponent is planning for slag disposal, then provide details on slag disposal process and its management.

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- ix) The project proponent shall brief the Air Pollution Control measures taken and fume collection system in new induction furnaces.
- x) The project proponent shall keep provision of solar power generation.
- xi) The project proponent to furnish details of disposal of coal ash generated from the producer gas plant proposed under the expansion.

ITEM NO. 05

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. COGENT STEEL AND PIPES PRIVATE LIMITED FOR REGULARIZATION OF EXISTING ROLLING MILL FOR THE PRODUCTION OF REROLLED STEEL PRODUCTS (M.S. PIPE) – 90,000 MTPA OVER AN AREA 2.4 ACRES (0.97 HECT.) AT KHATA NO. 13, PLOT NO. 764/P, 765, 803/P, 802/1110, 764/1112, 803, 804/1111 & KHATA NO. 73/80, PLOT NO.804/1178, VILLAGE- LODOSARA, P.S.-BIRAMITRAPUR, TEHSIL- KUARMUNDA DISTRICT- SUNDARGARH OF SRI PRATIK GUPTA – 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 of M/s. Cogent Steel And Pipes Private Limited for Regularization of existing rolling mill for the production of Rerolled steel products (M.S. Pipe)- 90,000 MTPA over an area 2.4 Acres (0.97 Hect.) at Khata No. 13, Plot No. 764/P, 765, 803/P, 802/1110, 764/1112, 803, 804/1111 & Khata No. 73/80, Plot No.804/1178, Village- Lodosara, P.s.-Biramitrapur, Tehsil- Kuarmunda District- Sundargarh, Odisha of Sri Pratik Gupta.
3. **Category:** This is a Category – B project which falls under schedule 3(a), Metallurgical Industries (ferrous & nonferrous) as per the EIA Notification 2006 and amendments thereafter. Proposed project is Regularization of Re-Rolling Mill, in compliance to the MoEF&CC Notification dated 20th July 2022, all Cold Rolled Stainless Steel Manufacturing Industries require prior environment clearance as per EIA notification 2006.
4. **Location and Connectivity:** M/s Cogent Steel & Pipes Pvt. Ltd. is located at Khata No. 13, Plot No. 764/P, 765, 803/P, 802/1110, 764/1112, 803, 804/1111 & Khata No. 73/80, Plot No.804/1178, Village – Lodosara, P.S. – Biramitrapur, Tahasil – Kuarmunda District – Sundargarh, Odisha. The geo coordinates of the project are: Latitude 22°18’3.43” N and Longitude 84°45’10.33E. The nearest Railway Station is Kuarmunda Railway Station which is located at about 2.8 km in E direction and Rourkela Airport is at a distance of approx..7.5 km in SE direction from the project site.
5. The renewal of last consent was granted by State Pollution Control Board, Odisha vide No. 1503/ dated 18.04.2023 Consent Order No. 0008/SPCB/RKL (APC & WPC) which is valid up to 31.03.2028.
6. **Raw material:**

S. No.	Raw Material	Quantity (TPA)	Source	Mode of transport
1	Billets/Ingots	94,500	Open Market	Road

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7. **Water Requirement:** Water consumption for the units is primarily due to cooling requirements where water is re-circulated in a closed circuit. The one-time water demand is 25.0 KLD, while the daily fresh water requirement is 18.0 KLD, about 10 KLD makeup water for cooling purpose, 4 KLD for plantation and dust suppression and 4.0 KLD for domestic purposes
8. **Waste generation:** The following will be the waste generation from the proposed project and method of disposal.

S. No	Particulars	Waste generation (KLD)	Management
1.	Industrial	5	Waste water from the rolling mills is likely to contain scale and oil & grease. This water is collected in settling tank fitted with an oil & grease skimmer. The clarified water is being re-used in the plant. Oil & Grease is being collected in drums and sold to secondary market for recycling.
2	Domestic	3.2	Existing sewage is being disposed of into septic tank and soak pit.

9. **Solid waste generation and method of disposal:**

S. No	Particulars	Quantity	Management
1.	Municipal Solid Waste (Kg/day)@0.2kg/person	7.2	It is being Send to Municipal corporation
2.	Mill scale	2500	sold to nearby Billets manufacturing Unit
3.	End Cutting	2000	sold to nearby Billets manufacturing Unit
4.	Bottom Ash	3360	Will be used in land filling

10. **Power Requirement:** Total power requirement for plants is 3.3 MW. Source from State Electricity Board. A DG Set capacity of 320 KVA also provided standby.
11. **Greenbelt development plan:** Approx. 0.25Ha. of total land availability is reserved for greenbelt development plan. About 625 Nos. (0.25Ha. x 2500 plant/ha.) Plants will be maintained. Existing plants will be retained as it is. Plant species will be planted after consultation of local forest department. Greenbelt of 33% of the area will be developed in the plant premises as per CPCB guidelines. A three-tier plantation is proposed.
12. **Manpower Requirement:** The local areas will be benefited by way of generation of employment opportunities, increased demand for local products and services. There will be an overall improvement in the income level of the local people. The proposed project will generate direct employment 100 No's which will be employed officials, staff, skilled, semi –skilled labour & 100 Nos. indirectly employed in contract works & transport.
13. **Total Project cost:** The existing project cost is 1753.21 Lacs. EMP Cost includes a capital cost of 50 lakhs and recurring cost of 15 lakhs.

S. No	Particulars	Amount (In lakhs)
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		Capital Cost	Recurring Cost/ Annum
1.	Air Pollution /Noise pollution Control System	35	5.00
2.	Green Belt Development	08	2.00
3.	Environment Monitoring and Management	-	5.00
4.	Water Pollution Control System	03	1.00
5.	Occupational Health& Safety	04	2.00
	Total	50	15.00

14. **Environment Consultant:** The Environment consultant M/s AmplEnviron Private Limited, Hyderabad along with the proponent made a presentation on the proposal before the Committee.

15. The SEAC in its meeting held on dated **28.08.2023** recommended the following:

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

- a) Details of fly/bottom ash generation and its management.
- b) Submit documents of approval i.e., CTE, CTO, compliance to stipulated conditions.
- c) Submit a fresh KML file.
- d) Details of spent refractions in terms of generation and permission for its disposal/selling to authorized vendors as they are hazardous.
- e) Explore the possibility to use fly ash in construction purposes.

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

- a) Environmental settings of the project site.
- b) Extent of construction activity and operational status of all the units.
- c) Road connectivity to the project site.
- d) Drainage network at the site.
- e) Greenbelt development in the existing plant.
- f) Solid waste management practice of the existing plant.
- g) Vacant land available.
- h) Any other issues including local issues.

16. 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
i.	Details of fly/bottom ash generation and its management.	Fly Ash- Nil generated at site Bottom Ash- 3360 TPA (Bottom Ash will be used in land filling at project site.)	-
ii.	Submit documents of approval i.e., CTE, CTO, compliance to stipulated conditions.	Copy of CTE, CTO, Compliance to stipulated condition are enclosed as Annexure 1.	CTE – 30.03.2022, CTO – 18.04.2023

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
			Compliance report is not complete.
iii.	Submit a fresh KML file.	Fresh KML attached	KML file not found
iv.	Details of spent refractions in terms of generation and permission for its disposal/selling to authorized vendors as they are hazardous.	Spent refractions is not generated at project Site. As per Hazardous waste Authorization received from SPCB, Odisha. We generate only Used/Spent oil (0.5 KL/Annum) and Waste/Residue containing Oil (0.1 T/annum) at project site. Copy of HWA is enclosed as Annexure 2 .	Copy submitted
v.	Explore the possibility to use fly ash in construction purposes.	No Fly Ash generated at Project Site	-

17. The SEAC in its meeting held on dated **29-04-2024** decided to take decision on the proposal after a site visit of the Sub-Committee of SEAC.

18. The proposed site was visited by the sub-committee of SEAC on **31.05.2024**. Following are the observations of the sub-committee:

- a) The plant is located close to NH-143 and was under operation at the time of site visit.
- b) There is no proper drainage network in the plant premises.
- c) It was observed that the process water is recycled after treatment. A small part of the storm water is treated and reused. However, rest of the storm water is released to outside through drains without proper treatment. The PP is required to set-up proper water treatment facilities to treat the runoff water before discharging it outside the plant premises. The detailed design and layout of such facilities are required to be shown at the time of presentation for Environmental Clearance.
- d) There is no greenbelt within the plant premises. A small space is available within the plant premises that could be utilized for plantation. As per the PP, additional land is also available adjacent to the plant. The PP is required to specify the details about plantation/green belt in a time bound manner at the time of presentation for environmental clearance.
- e) The house keeping in the plant was found to be very poor and the plant premises were covered with dust. Necessary measures are required to be adopted for prevention of formation of dust as well as preventing from it from getting air borne. The dust is required to be cleaned at regular intervals and disposed of in a safe manner.
- f) The scrap generated from the plant is sold to outside agencies and as per the PP a small amount of fly ash is generated because of use of imported coal, and the fly ash is used for filling up low lying land.
- g) The PP should provide safety shoes and helmets to all the workers and ensure their use in the plant premises.

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19. The recent EIA notification of MoEF&CC, Govt. of India vide S.O. 2215(E), dated 07.06.2024 stipulates the requirement of Environmental Clearance for secondary metallurgical industry for non-toxic metals under project or activity 3 (a) as follows:

iv) Processes involving melting of nontoxic metals		
Fuel in the furnace	Category B2	Category B1
1. Solid or liquid fuel	≥ 0.03 MTPA to < 0.06 MTPA	≥0.06 MTPA
2. Gas fuel or electricity	≥0.06 MTPA to < 0.12 MTPA	≥0.12 MTPA
v) Processes involving only heating of nontoxic metals with pickling		
Fuel in the furnace	Category B2	Category B1
1. Solid or liquid fuel	≥0.06 MTPA to < 0.12 MTPA	≥0.12 MTPA
2. Gas fuel or electricity	≥0.12 MTPA to < 0.18 MTPA	≥0.18 MTPA

The Standalone rolling or re-rolling or extrusion or piercing or forging or drawing units not involving any type of melting or pickling are exempted.

20. The Committee observed that the present proposal is coming under category B1 as per MoEF&CC, Govt. of India EIA notification vide S.O. 2215(E), dated 07.06.2024 as described at para 19 above.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s AmpliEnviron Private Limited, Hyderabad**, the SEAC prescribed the ToR as per **Annexure – C** for conducting detailed EIA study with following specific ToRs without conducting public hearing :

- i) The PP is required to set-up proper water treatment facilities to treat the runoff water before discharging it outside the plant premises. The detailed design and layout of such facilities are required to be shown at the time of presentation for Environmental Clearance.
- ii) The PP is required to specify the details about plantation/green belt in a time bound manner at the time of presentation for environmental clearance.
- iii) The house keeping in the plant was found to be very poor and the plant premises were covered with dust. Necessary measures are required to be adopted for prevention of formation of dust as well as preventing from it from getting air borne. The dust is required to be cleaned at regular intervals and disposed of in a safe manner.
- iv) The PP should provide safety shoes and helmets to all the workers and ensure their use in the plant premises.
- v) The Project proponent shall not increase the connecting load from the state grid 20% more than the existing load.
- vi) Note on existing green area and proposed green area.
- vii) Furnish details on types of alloys, its composition obtained from suppliers, types of billets/ingots manufactures and quantity of billet production etc.

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- viii) The Project proponent shall provide supporting documents like Memorandum of Understanding (MoU) with Raw material suppliers in EIA report.
- ix) Detailed note on slag processing, composition of slag, facilities provided for processing along with flowchart for the same.
- x) The Project Proponent shall clarify whether the slag will be used in land filling purpose; if so then area earmarked, how much period it can be stored and method of storage for it. If the Project Proponent is planning for slag disposal, then provide details on slag disposal process and its management.
- xi) The project proponent shall brief the Air Pollution Control measures taken and fume collection system in new induction furnaces.
- xii) The project proponent shall keep provision of solar power generation.
- xiii) The project proponent to furnish details of handling / storage / disposal of the coal ashes generated from the producer gas plant during operational phase of the project.

B. RE - CONSIDERATION OF CATEGORY B1 RETURNED FROM SEIAA – 04Nos.:

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S SHRI RADHA KRISHNA ISPAT PVT LTD FOR EXPANSION OF PRODUCTION CAPACITY OF MS BILLETS/INGOTS FROM 24000 TPA TO 52000 TPA BY REPLACEMENT OF EXISTING INDUCTION FURNACE (5 TON/HEAT + 3 TON/HEAT) WITH 2 X 8 TON/HEAT INDUCTION FURNACES OVER AN AREA 3.04 ACRES AT PLOT NO. 19/1019, GOIBHANGA, P.O.-KALUNGA, DISTRICT- SUNDARGARH OF SRI ARIHANT JAIN- TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference of M/s Shri Radha Krishna Ispat Pvt Ltd., for Expansion of Production Capacity of MS Billets/Ingots from 24000 TPA to 52000 TPA by replacement of existing induction Furnace (5 Ton/Heat + 3 Ton/Heat) with 2 X 8 Ton/Heat Induction Furnace over an area 3.04 acres at Plot No. 19/1019, Goibhanga, P.O.-Kalunga, District- Sundargarh of Sri Arihant Jain.
3. **Category:** This is an existing project and is categorized under Category 'B' under Schedule item 3(a)- Metallurgical Industries (ferrous and non-ferrous), of Gazette Notification dated 14th September, 2006 and its subsequent amendments.
4. M/s Shri Radha Krishna Private Limited is an existing industrial unit producing Pencil Ingots through Induction Furnaces of capacity 5 Ton/Heat & 3 Ton/Heat.
5. **Location and connectivity:** The proposed project is of area 3.04 Acres (1.23 Ha) located at Plot No. 19/1019, Goibhanga P.O.-Kalunga, District- Sundargarh, Odisha. The project is bounded by Latitude 22°19'45.84"N and Longitude 84°44'39.18"E. The nearest Railway Station is Kalunga Railway Station which is located at about 1.2 km in SW direction and Rourkela Airport is at a distance of approx.7.0 km in ENE direction from the project site. Nearest habitation is Village – Bijabahal - 0.3 km, NW. Nearest National Highway is NH-143, 4.0 Km in

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East Direction and nearest State Highway is SH-10 – 1.0 Km, North. Nearest Water Bodies are Longmohan Nadi is at 0.1km W and Sankh River is at 2.3km N. Nearest Protected forest is Kacharu PF at 12.3km and nearest Reserve forest is Sagior RF at 4.4km from the project site.

6. The renewal of last consent was granted by State Pollution Control Board, Odisha vide No. 2502/RO-CTO-0403 dated 10.02.2021. Consent Order no 131/SPCB/RKL (APC & WPC) which is valid up to 31.03.2026.

7. Details of Existing and Proposed Plant

S. No.	Particulars	Existing	Proposed expansion	Total
i)	Induction Furnace	5 Ton +3 Ton/heat	2X8 Ton/heat (By replacing existing furnaces)	2X8 Ton/heat
ii)	Production capacity (MS Ingots/ Billets Production)	24,000 TPA	28000 TPA	52000 TPA
iii)	CCM	---	2 Strand, 4/7 m radius	2 Strand, 4/7 m radius
iv)	Fixed capital investment	11.15 Cr.	4.85 Cr.	16.00 Cr.
v)	Electrical power requirement	2.9 MW	2.6 MW	5.5 MW
vi)	Land area	3.04 Acres (1.23 Hect.)	---	3.04 Acres (1.23 Hect.)
vii)	Manpower requirement	80	20	100

8. Raw material requirement:

S. No.	Raw Material	Existing Capacity (TPA)	Proposed Capacity (TPA)	Total Capacity (TPA)	Source	Mode of transport
1	Sponge Iron	19800	23100	42900	Open Market	Road
2	Pig Iron	2640	3080	5720	Open Market	Road
3	MS Scrap	2640	4775	7415	Open Market	Road
4	Alloys	1320	1540	2860	Open Market	Road

9. **Water Requirement:** The existing daily fresh water requirement is 9 m³/day and is being sourced from existing bore well and NOC has been obtained from CGWA vide 21-4/5233/OR/IND/2023. Additional 15KLD fresh water will be required for expansion proposal for which CGWA Application is under process. After expansion, total freshwater requirement will be 24 KLD. After expansion, total water demand is 38.5 KLD, out of which fresh water will be 24 KLD which will be sourced from Ground Water. 14.5 KLD water will be recycled.

S. No.	Particulars	Fresh (KLD)	Recycled (KLD)	Total Water Demand (KLD)
i)	Industrial	14	7	21

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ii)	Domestic	10	-	10
iii)	Plantation	7.5*	STP treated water of 7.5 KLD will be used for greenbelt development	7.5
	Total	24	14.5	38.5

10. **Wastewater generation:**The following will be the waste water generation from the proposed project and method of disposal.

S. No	Particulars	Wastewater generation (KLD)	Management
i)	Industrial	7.0	IF: -Blow-down water from cooling systems will be utilized for the plant through closed circuit cooling system.
ii)	Domestic	8.0	Domestic sewage is being treated in STP and treated water is being used for greenbelt development.

11. **Solid waste generation and management:** The following will be the Solid waste generation from the proposed project and method of disposal.

S. No	Particulars	Existing Quantity (TPA)	Proposed Quantity (TPA)	Total Quantity after Expansion (TPA)	Management
i)	Municipal Solid Waste (Kg/day)@0.2 kg/person	3.6	1.8	5.4	It is being send to Municipal corporation
ii)	Slag	2640	3080	5720	Crushed in own Slag crushed unit after that metallic part used in house Billet Manufacturing and non metallic part reused for landfilling
iii)	Mill Scale	14.2	16.8	31	Dried and used in IF
iv)	Refractories	240	300	540	Sold to Building contractor

12. **Manpower Requirement:** The proposed project will generate direct employment 100 No's which will be employed officials, staff, skilled, semi -skilled labour & 100 Nos. indirectly employed in contract works & transport.

13. **Power Requirement:** Total power requirement for plants is 5.5 MW. Source from State Electricity Board. A DG Set capacity of 250 KVA also provided standby.

14. **Greenbelt development plan:** Approx. 0.406 Ha. of total land availability is reserved for greenbelt development plan.About 1015 Nos. (0.406 ha. x 2500 plant/ha.) Plants will be maintained. Nos. of trees already planted = 115 Nos.Nos. of Plants yet to be planted = 1015-115 = 900 Nos.Greenbelt of 33% of the area will be developed in the plant premises as per CPCB guidelines.

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15. Total Project cost: The estimated total project cost of the proposed project is 16.00 Crores. EMP Cost incurs a capital cost of 100 lakhs and recurring cost of 29 lakhs.

S. No	Particulars	Amount (In lakhs)	
		Capital Cost	Recurring Cost/ Annum
i)	Air Pollution /Noise pollution Control System	80	15.00
ii)	Green Belt Development	10	2.00
iii)	Environment Monitoring and Management	-	8.00
iv)	Water Pollution Control System	05	2.00
v)	Occupational Health& Safety	05	2.00
	Total	100	29.00

16. Environment Consultant: The Environment consultant M/s Parivesh Environmental Engineering Services, Lucknow along with the proponent made a presentation on the proposal before the Committee.

17. The SEAC in its meeting held on dated 01-12-2023 prescribed the ToR as per Annexure – A for conducting detailed EIA study with following specific ToRs:

- i) The Project proponent shall not increase the connecting load from the state grid 20% more than the existing load.
- ii) Note on existing green area and proposed green area.
- iii) Furnish details on types of alloys, its composition obtained from suppliers, types of billets/ingots manufactures and quantity of billet production etc.
- iv) The Project proponent shall provide supporting documents like Memorandum of Understanding (MoU) with Raw material suppliers in EIA report.
- v) Detailed note on slag processing, composition of slag, facilities provided for processing along with flowchart for the same.
- vi) The Project Proponent shall clarify whether the slag will be used in land filling purpose; if so then area earmarked, how much period it can be stored and method of storage for it. If the Project Proponent is planning for slag disposal, then provide details on slag disposal process and its management.
- vii) The project proponent shall brief the Air Pollution Control measures taken and fume collection system in new induction furnaces.
- viii) The project proponent shall keep provision of solar power generation.

18. The Proposal was placed in the 150th SEIAA, Odisha meeting held on 02.01.2024 and the Authority observed that the existing production capacity of the unit for production of MS Billet / MS Ingots is more than 5000 TPA and the proposal falls into item no.3 (a)-secondary metallurgical processing unit. After detailed deliberation in the matter, the Authority decided to seek clarification why the proposal shall not be considered as a violation category since the existing production capacity of the unit is more than 5000 TPA during the period 2007-2011. The PP shall also furnish the year wise production till date duly certified by the competent authority. Accordingly, ADS letter issued to PP on 09.01.2024 for clarification on the above mentioned point.

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19. Now, the PP has submitted their reply vide letter no. Nil dt. 17.03.2024 and uploaded in Parivesh Portal on 22.03.2024.
20. The SEIAA in its 162nd meeting held on dated 03.04.2024 & 04.04.2024 observed that this is a proposal for Expansion of Production Capacity from 24000 MTPA to 52000 TPA of M/s. Billets/Ingots by replacement of existing induction Furnace (5 Ton/Heat + 3 Ton/Heat) with 2 X 8 Ton/Heat Induction Furnace. The PP has applied for EC under the provision of MoEF&CC Notification No. S.O 3194 (E) dated 20.07.2022 meant for all re-rolling unit or cold rolling unit which are in existence and in operation as on date of the notification dated 20.07.2022. However, the EIA Notification, 2006 under 3(a)- ii, provides requirement of EC for all other nontoxic secondary metallurgical processing unit >5000 tonnes per annum. The case is referred back to SEAC for their examination and views if the present proposal comes under hot rolling mill or cold rolling mill.
21. The SEAC observed the following:
- i) The principal EIA notification 14th Sept. 2006 stipulates Induction/arc furnaces/cupola furnaces 5TPH or more will require EC as category B under project / activity 5(k) of schedule of EIA notification. This will not come under re-rolling mill.
 - ii) The above-mentioned proposal is not coming under the provision of MoEF&CC, Govt. of India Notification no. S.O. 3194 (E) dated 20.07.2022 meant for all re-rolling unit or cold rolling unit which are in existence and in operation as on date of the notification. The current proposal is for expansion of an existing facility having CTO since 2007 for producing MS ingot billets from raw materials pig iron, sponge iron and MS scrap using electric induction furnace and continuous billet casting machine. MS ingot billets are cast products and not rolled products.
 - iii) Obtaining prior authorization of EC is mandatory for establishing and operating / carrying out the stipulated activities mentioned in the MoEF&CC, Govt. of India notification S.O. 1533 (E) dated 14th September 2006. Hence obtaining CTE prior to the date of issue of above-mentioned notification does not entitle an industrial entity to carry out industrial operation without prior EC. In the instant case CTO has been obtained on 20th April 2007 and operation is continuing without EC.
 - iv) The current operation for which CTO has been issued involves operation of induction furnaces only or additional facilities such as continuous casting machine etc. need clarification. The current operation is for producing MS ingot billets and the information on what machinery is used along with the induction furnace in the existing facility is not stated. The MoEF&CC, Govt. of India notification S.O. 3067 (E) dated 01st December 2009 para (iv) against item 3(a), in column (5), for the entries, the following entries shall be substituted, namely: - (ii) reads as follows.

*"In case of secondary metallurgical processing industrial units, those projects **those projects involving operation of furnaces only** such as induction and electric arc furnace, submerged arc furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) Would require Environmental Clearance."*

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- v) The recent EIA notification of MoEF&CC, Govt. of India vide S.O. 2215(E), dated 07.06.2024 stipulates the requirement of Environmental Clearance for secondary metallurgical industry for non-toxic metals under project or activity 3 (a) as follows:

vi) Processes involving melting of nontoxic metals		
Fuel in the furnace	Category B2	Category B1
1. Solid or liquid fuel	≥ 0.03 MTPA to < 0.06 MTPA	≥0.06 MTPA
2. Gas fuel or electricity	≥0.06 MTPA to < 0.12 MTPA	≥0.12 MTPA
vii) Processes involving only heating of nontoxic metals with pickling		
Fuel in the furnace	Category B2	Category B1
1. Solid or liquid fuel	≥0.06 MTPA to < 0.12 MTPA	≥0.12 MTPA
2. Gas fuel or electricity	≥0.12 MTPA to < 0.18 MTPA	≥0.18 MTPA

The Standalone rolling or re-rolling or extrusion or piercing or forging or drawing units not involving any type of melting or pickling are exempted.

- vi) The MoEF&CC, Govt. of India EIA notification vide S.O. 2215(E), dated 07.06.2024 stipulates "processes involving melting of non-toxic metals in gas or electricity-based furnace will require EC for production capacity ≥0.06 MTPA i.e. ≥ 60000 MTPA". Since, the total production capacity of the unit is < 60000 TPA, the unit does not require EC as per the above notification.

After detailed discussion, the SEAC recommended that the SEIAA, Odisha may consider to take decision on the proposal on the basis of observation of the SEAC at para 21 above.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR OLAGADA TARTOL MAHANADI SAND SAIRAT OVER AN AREA OF 20.00 ACRES OR 8.09 HA. HAVING KHATA NO. 377,336, PLOT NO. 1270,1123 IN VILLAGE OLAGADA AND TARTOL UNDER TIRTOL TAHASIL OF JAGATSINGHPUR DISTRICT OF SRI SAGAR KUMAR RAY - EC

1. This proposal is for Environmental Clearance of Olagada Tartol Mahanadi Sand Sairat over an area of 20.00 Acres or 8.09 Ha having Khata No. 377,336, Plot No. 1270,1123 in village Olagada and Tartol under Tirtol Tahasil of Jagatsinghpur District of Sri Sagar Kumar.
2. **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.
3. Quarry lease has been awarded to Sri. Sagar Kumar Ray S/o-Sri Purna Chandra Behura, by Tahasildar of Tirtol for 5 years via letter no. 2433 dated 02/12/2021.
4. The mining plan was approved by Deputy Director Geology, Authorized officer, Directorate of Geology, Bhubaneswar vide letter no.5469/DG and date.15.09.2021.
5. Mining lease is an identified sairat source in the DSR page No.20, Sl.no.12, Annexure. I and the mine is an existing Mine.

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6. **TOR details:** Terms of Reference (TOR), was issued by SEIAA, Odisha, vide proposa No.-SIA/OR/MIN/71464/2022 and letter No.4585/SEIAA on dated 19.05.2022.
7. **Public hearing details:** Public hearing was conducted on 25.11.2022 at Bana Gachha Thakur Padia, Tahasil- Tirtol, Dist-Jagatsinghpur at 10.30 AM. Issues raised during public hearing are covering sand loaded vehicle to control air pollution; prevention of sand spillage, availability of sand at concessional price. An amount of Rs. 40,000(CER Budget) has been incurred for action plan of public hearing.
8. **Location and connectivity:** The proposed project is located at Khata no-377,336, Plot No-1270,1123 in Olagada & Tartol village under Tirtol Tahasil of Jagatsinghpur district bounded by Latitude: N20°18'54.13"to 20°19'10.53"N and Longitude : E86°20'31.03" to 86°21'06.28"E bearing Toposheet no 73L/7. The Nearest railway station is Nimakana Railway Station 4km and nearest airport is Biju Pattanaik international Airport, Bhubaneswar is at about 56 km
9. **Total Reserves and proposed production:** As estimated, the proposed production is 23300cum/Year and total production is 116500cum.

As per Approved Mining Plan	
Geological Reserve	Mineable Reserve
110544	88182

10. **Replenishment study details:** Replenishment Study Report has prepared by Drone method. Pre-monsoon Survey was conducted on 23.06.2023 and Post-Monsoon Survey was conducted on 28.11.2023 along 7651.82001 cum of sand has been replenished annually. Deposit of sand thickness is 0.4m.
11. **Mining method:** Open cast manual mining method will be adopted for the proposed project with a production capacity of max 23300 m³/year.
12. **Water requirement:**25 KLD is the total water required for the proposed project.

S. No.	Particulars	Quantity (KLD)	Source
	Dust Suppression (on haul roads etc)	5.0	Water will be sourced from nearest available source.
	Green Belt Development/Plantation	5.0	
	Drinking/Domestic & Sanitation	15.0	
	Total	25.0	

13. **Baseline study details:** Baseline study of the study area was conducted during pre-monsoon from 1st March 2022 to 31st May 2022 for Olagada Mahanadi Sand Quarry.
 - **Air Quality:** PM₁₀ levels were ranging from 61.2 to 86.5 µg/m³. PM_{2.5} levels were ranging from 18.6 to 27.7 µg/m³. SO₂ levels were ranging from 6.9 to 10.3 µg/m³. NO_x levels were found ranging from 10.4 to 15.4 µg/m³.

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- **Noise Quality:** The noise levels varied in the study area during day time from 51.2 dB (A) Leq at Nagapura to 63.5 Leq dB(A) at T-Point where Vehicle Movement is Higher which is increase the noise level. The night time noise level in the study area is in the range of 32.8 (A) Leq at Nagapura Village to 42.9 Leq dB(A) at T-Point because, because Due to surrounding activities of Project site.
- **Ground water monitoring results:** pH ranges from 6.72 to 7.28. TDS in samples ranges from 101 mg/l to 484 mg/l. Total Hardness in the water ranges from 159 mg/l to 269 mg/l. Calcium content in the water ranges from 21.47 mg/l to 40.28 mg/l, Magnesium content in the water ranges from 1.92 mg/l to 6.89 mg/l. Alkalinity in the water samples ranges from 110 mg/l to 231 mg/l. Chlorides range from 9.14 mg/l to 28.93 mg/l.
- **Surface water monitoring results:** All samples were colourless meeting desirable norms (<5 Hazen). All samples meet the desirable standards (pH ranges from 6.98 – 7.86). TDS in samples ranges from 29 mg/l to 98 mg/l. Total hardness in the water ranges from 16 mg/l to 57 mg/l. Calcium content in the water ranges from 3.28 mg/l to 16.38 mg/l, Magnesium content in the water ranges from 1.4 mg/l to 3.97 mg/l, Alkalinity in the water samples ranges from 104 mg/l to 148 mg/l. Chloride ranges from 7.23 mg/l to 9.64 mg/l.
- **Soil monitoring results:** All the samples showed pH in the range from 6.92-7.25. Conductivity of the samples were in the range from 111.2µmhos/cm – 264.1µmhos/cm. Moisture were in the range from 3.43% to 10.55%. Organic Carbon ranges from 0.54% - 1.64%. Organic Matter BDL. Phosphorus in the samples ranges from 0.14 mg/kg- 0.62 mg/kg. Total Nitrogen BDL. Potassium in the samples ranges from 150 mg/kg - 299 mg/kg. Calcium in the samples ranges from 48.32 mg/kg - 84.31 mg/kg. Magnesium ranges from 12.45 mg/kg – 53.32 mg/kg. Chloride ranges from 48.32 mg/kg- 84.31 mg/kg.

14. **Greenbelt development:**50 trees per year will be planted as greenbelt development for the proposed project.

Year	Number of saplings proposed	Location	Type of saplings
1st Year	50	Plantation is carried out safety zone of the lease area(river bank areas)	Teak,Mango,Jammu,Jhaun, Neem etc.
2nd Year	50		
3rd Year	50		
4th Year	50		
5th Year	50		
Total	250		

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15. **Manpower requirement:** For the proposed project, 49 persons are required as manpower.

Designation	Number of persons (Olagada Sand Quarry)
Supervisory Personnel/ Statutory Personnel	1
Skilled laborers (Operator and Helper)	8
Semi-skilled Laborer	10
Unskilled Laborer	30
Total	49

16. **Project cost:** The estimated project cost is Rs. 10 lakhs, with EMP Capital Cost of Rs. 1, 45,000 and recurring cost of 75,000.

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

18. The SEAC in its meeting held on dated **01-02-2024** recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions and following specific conditions:

- a) Amended EIA Notification dated 25th July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining.
- b) In absence of proper Replenishment Study Report, the SEAC recommended sand for 1st year to a capacity of 60% of annual production capacity as approved in the mining plan.
- c) Issues raised in Public Hearing shall be complied by the project proponent.
- d) Sand extraction shall be limited to quantity and depth as per replenishment study report. Regular replenishment study as per guidelines to be conducted and report to be submitted.
- e) Provision of Bio-toilet shall be made at the site.
- f) Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.
- g) Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.
- h) No natural water course shall be obstructed or diverted for the purpose of sand mining.
- i) As per Sand Sustainable Guidelines, 2020, the proponent shall ensure that no mining should be allowed below water level.

19. The SEIAA in its 157th meeting of SEIAA held on 22.02.2024 and 23.02.2024 observed that the PP has proposed the production quantity of sand of 7651 cum/ annum against the approved quantity of 12753 cum/ annum of sand stated to be replenished as per ARRS report. The SEAC recommended for extraction of sand for 1st year to a capacity of 60% of annual production capacity as approved in the mining plan which is higher than 7651 cum.

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20. After detailed deliberation in the matter, the Authority decided to refer back the proposal to SEAC for re-examination of ARRS report and considered opinion on the same.

21. The SEAC observed the following:

- i) SEAC observations as per proceeding dated 01-02-2024 was that the RS was not proper.
- ii) Since it is the 1st year mining, SEAC recommended 60% of the quantity as per approved mining plan following all other terms and conditions of sand mining.
- iii) The matter was discussed again and SEAC reiterates its previous recommendations.

ITEM NO. 03

PROPOSAL FOR EXTENSION OF ENVIRONMENTAL CLEARANCE FOR NUAPADA DECORATIVE STONE MINE OVER AN AREA OF 8.575 HA. LOCATED AT PLOT NO. 74/P & 237/P, KHATA NO. 203, AT/PO- NUAPADA, TAHASIL - BHAWANIPATNA, DISTRICT- KALAHANDI, ODISHA OF SRI HARENDRA KUMAR PATTNAIK - EC

1. This proposal is for extension of Environmental Clearance of Nuapada Decorative Stone Mine with total production capacity of 22,015 cum having an area of 8.575 Ha. located at Plot No. 74/P & 237/P, Khata No. 203, At/PO-Nuapada, Tahasil - Bhawanipatna, District- Kalahandi, Odisha of Sri Harendra Kumar Pattnaik.
2. **Category:** As per the EIA Notification dated 14th September 2006 and its subsequent amendments the proposed project falls under category B of Schedule in item 1 (a) – mining of minerals.
3. **List of Statutory Clearances obtained earlier -**
 - a) Environmental Clearance vide letter no. SEIAA/4234 dtd. 17.08.2015 for total production capacity of 22,015 cum obtained from SEIAA.
 - b) The Mining Plan was approved by Directorate of Mines & Geology, Steel & Mines Department, Govt. of Odisha, Bhubaneswar vide letter no. MXXXI(b)14/13/1308/DM, Dtd. 16.02.2015.
 - c) Mining lease granted by- Mining Officer, Kalahandi Circle, Bhawanipatna.
4. **Location and connectivity:** The project area is located at Plot No. 74/P & 237/P, Khata No. 203, At/PO-Nuapada, Tahasil- Bhawanipatna, Dist-Kalahandi. The geographical co-ordinates of centre of project site are Latitude: 20° 09' 85"N To 20° 10' 02"N Longitude: 83° 01' 28" E To 83° 01' 28" E. Toposheet No: 64P/4, Kisam- Abad Ajogya Anabadi.
5. The project is not located within Eco-Sensitive Zone (ESZ) or Eco-Sensitive Area (ESA) notified by the MoEF&CC. The nearest Wildlife Sanctuary is Karlapat Wildlife Sanctuary- 27.8 Km.
6. **Total Reserves Production:** The total Geological Reserves for the ML area is 1,629,500Cum, Mineable Reserves for the ML area is 933,500Cum.
7. **Water requirement:** About 5KLD of water will be required in the mine for domestic and non-domestic purpose.

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8. Mining Plan Details:

- a) **Details of Minerals:** There will be production of Decorative Stone of quantity 22,015 (cum)/annum.
- b) **Method of Mining:** Opencast and semi mechanized method with the deployment of machines like jack hammer drill, compressor, hydraulic excavator & tipper.
9. **Solid waste generation:** A total waste of 30,664m³ or 36,797m³ (swollen) waste/rejects will be generated during the conceptual period.
10. **Mitigation of solid waste produced:** The waste rejects will be dumped over an area of 4,530m² at 8.5m height (approx).
11. **Greenbelt Development:** They have proposed for afforestation program of 240 saplings in the safety zone over an area of 1,500sq.m.
12. **Total Employment:** A total of 37 nos. of people will be employed in the mine.
13. **Project Cost:** The total project cost is 1.5 Crores. The Capital cost allocated for implementation of EMP is 5 Lakhs.
14. **Environment Consultant:** The Environment consultant M/s. **Green Circle, INC., Vadodara**, along with the proponent made a presentation on the proposal before the Committee.
15. The SEAC in its meeting held on dated **03-02-2024** decided to take decision on the proposal after receipt of the following from the proponent:
16. 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.	Copy of Environmental Clearance, Mining Plan and lease documents showing the project proponent is the rightful lessee and validity period of lease.	The relevant documents i.e. Mining plan, Environmental Clearance & Lease documents as desire by SEAC are enclosed herewith for validity extension of Environmental Clearance of Nuapada Decorative Stone Mine over an area 8.575 Ha.	Environment Clearance has been granted to the project vide letter no. 4234 dated 17.08.2015. has been submitted. Letter from Steel And Mines dept. vide letter no. 12638 dated 18-12-2023 that the project proponent is the rightful lessee and validity period of lease is upto 2032. Mining Plan has been approved vide letter no. 1308 on dated 16-02-2015. The validity of the approved mining plan as per the above-mentioned letter is for the period FY2012 – 2013 to FY2016-2017. The updated approved mining plan needs to be submitted.

17. The SEAC in its meeting held on dated **21-03-2024** decided to recommend the proposal Nuapada Decorative Stone Mine, over an area of 8.575 Ha. located at Plot No. 74/P & 237/P, Khata No. 203, At/PO-Nuapada, Tahasil - Bhawanipatna, District- Kalahandi, Odisha for extension of Environmental Clearance valid upto the lease period i.e. 2032. However, SEIAA shall grant EC after the project proponent submits the updated approved mining plan.

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J Nayak
Environmental Scientist, SEAC

18. The SEIAA in its 165th meeting held on dated **30-04-2024** observed the following:-

- a. Govt. of Odisha, Steel & Mines Deptt. vide their proceeding no. 12638/S&M dated 18.12.2023 has allowed extension of the lease period of Nuapada Decorative stone mine over an area of 8.575 ha. in village Nuapada under Bhawanipatna Tahasil, District Kalahandi for a period of 30 years from the date of original grant i.e. upto 15.08.2032.
- b. The Mining Plan submitted has a validity period of five years for F.Y. 2012-13 to F.Y. 2016-17 approved by Order no. 1308/BM dated 16.2.2015.
- c. Earlier EC has been issued vide SEIAA letter no. SEIAA/4234 dated 17.08.2015 under the then B2 category for which public hearing was not required. However, as per extant guideline, this is now categorized as B1 and requires Public Hearing (As the lease area is more than 5 ha.).
- d. After detailed discussion, the authority decided to referred back the proposal to SEAC for their considered view whether public hearing is required or not in the instant case.

19. **The SEAC observed the following:**

- a) Earlier EC was recommended by SEAC (under then B2 category) upto to the lease period.
- b) This project is not fresh proposal rather an ongoing project. Due to amendment in MoEF&CC, Govt. of India Notification 2006, the proposal has now been changed from B2 category to B1 category. Fresh Public Hearing may not be applicable to an ongoing mining project.
- c) As per extant guideline, there is provision for re - appraisal of those cases, where EC has been granted by DEIAA. There is no guidelines/information for those cases applied under Extension of EC (i.e. cases like the present proposal which has now been changed from B2 category to B1 category).

After detailed discussion, the SEAC decided reiterates its earlier recommendation with a request that the SEIAA, Odisha may consider the case for extension of EC as per observation made by SEAC in Para 19 or may seek clarification from MoEF&CC, Govt. of India, New Delhi whether such case can be considered for Extension of EC.

ITEM NO. 04

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S BIO-TECH SOLUTIONS FOR COMMON BIOMEDICAL WASTE TREATMENT FACILITY (CBWTF) AT PLOT NO. 155/1020 AND 15/1025, VILLAGE: JAMAPALLI, TEHSIL: BINIKA, DISTRICT: SUBARNAPUR OF SRI RAJENDRA KUMAR SAHU - EC

1. This proposal is for Environmental Clearance of M/s. Bio-Tech Solutions for Common Biomedical Waste Treatment Facility (CBWTF) at Plot no. 155/1020 and 15/1025, Village: Jamapalli, Tehsil: Binika, District: Subarnapur of Sri Rajendra Kumar Sahu.
2. **Category:** This project falls under Category "B" of Project activity 7 (da) - Development of Common Bio Medical Waste Treatment Facility projects as per EIA Notification dated 14th Sept, 2006 as its amendments.
3. **TOR details:** Terms of Reference was issued by SEIAA, Odisha vide letter No. 4959/SEIAA dated 28.07.2022 for the proposed project.

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4. **Location and connectivity:** The proposed project is located at Plot No. 155/1020 and 15/1025, Village: Jamapalli, Tehsil: Binika, District: Subarnapur, State: Odisha. The geographical co-ordinates of project site are 21° 5'20.87"N to 21° 5'21.12"N and 83°45'41.75"E to 83°45'45.60"E. it falls under Toposheet no.: 64O12, 64O16, 64P9 & 64P13. The nearest residential area is Village: Jamapalli at 600 m towards SW direction and nearest town is Binika town at 10 km towards SSE direction. The nearest highway is NH-126A at a distance of 1.18 Km in North Direction. The nearest Railway Station is DUNGRI PALLI Railway Station at a distance of 22.0 Km in West direction. The nearest Airport is Veer Surendra Sai Airport, Jharsuguda at 96 KM NNE direction & Biju Patnaik International Airport, Bhubaneswar at 232Km SE direction. The nearest water bodies are Jira River: 5.0 Km NE Direction, Mahanadi River: 7.5 Km SE Direction and Choki Nala: 7.5 Km S Direction. The nearest reserve forest is Singhijuba RF: 1.30 Km SW Direction, Ghatasan RF: 8.0 Km SE Direction and Bishalbari PF: 9.0 Km S Direction.
5. There are no National Park/Wildlife Sanctuary/ Eco-sensitive zone are within 10 km radius of the Project Site.
6. **List of Statutory Clearances:**
- Consent to establish has been obtained vide consent no. 6053/IIICON (NOC)/164/2021-22 dated 18.11.2021.
 - Letter from DFO obtained vide office order no. 289/4F (Misc) dated 30.11.2021.
7. **Public hearing details:** The Public hearing was conducted successfully on 28.06.2023 at 10.00AM in the weekly market ground of Sanindpur village.
8. **Baseline study conducted:** Baseline study was conducted during Pre-Monsoon season of 2022 i.e. from 1st March 2022 to 31st May 2022.
- Ambient Air monitoring:** - PM₁₀ is within range of 50 µg/m³ to 70.4 µg/m³, PM_{2.5} is within range of 30.5 µg/m³ to 44.5 µg/m³, SO₂ is within range of 11.2 µg/m³ to 23.7 µg/m³ and NO_x is within range of 12 µg/m³ to 27.3 µg/m³.
 - Water quality monitoring:** The result of surface water samples collected shows that the pH varies from 7.53 to 7.79, Total Hardness varies from 197.26 to 716.82 mg/l, Total Dissolved Solids varies from 341 to 862 mg/l, BOD varies from 10.0 to 29.0 (mg/l), COD varies from 24.21 to 67.0 (mg/l). The result of ground water samples collected shows that the pH varies from 7.52 to 7.75, Total Hardness varies from 149.38 to 226.79 mg/l, Total Dissolved Solids varies from 270 to 381 mg/l and Flouride content varies from 0.2 mg /l. to 0.23 mg/l.
 - Ambient Noise monitoring:** Minimum and maximum noise levels recorded during the day time were from 48.86 Leq Db and 53.18 Leq Db respectively and minimum and maximum level of noise during night time were 39.76 Leq Db and 43.72 Leq Db.
 - Soil monitoring:** The pH of the samples ranged from 7.25 to 7.41, which is slightly to moderately alkaline, Organic matter ranges from 0.29% to 0.45%, the concentration of Nitrogen ranges from 143.56 Kg/ha to 190.84 Kg/ha, Phosphorus ranges from 11.67 Kg/ha to 27.11 Kg/ha and Potassium ranges from 176.11 Kg/ha to 201.94 Kg/ha
9. **Water requirement:** The total water requirement for the proposed project will be 9 KLD (Fresh water 5.5 KLD + Treated water 3.5 KLD). Water will be sourced from Ground Water. Out of the total water requirement 3.5 KLD will be used for washing purpose i.e. vehicle washing & area

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washing, 2.0 KLD will be used for the scrubber, 1.5 KLD will be used for the Domestic consumption and 2.0 KLD will be used for the Greenbelt development.

10. **Wastewater details:** Total effluent generation would be 5.0 KLD which will be treated with the help of ETP and the treated water will be used for Greenbelt development, Scrubber and Washing. Domestic waste water will be treated with the help of the Septic tank followed by Soak pit.

Sl. No.	Particulars	Water Requirement (KLD)	Fresh Water	Treated Water	Effluent Generated	Treatment
1.	Vehicle Washing	3.0	2.0	1.0	3.0	6 KLD of ETP with ZLD Concept is Proposed for Wastewater treatment
2.	Scrubber	2.0	2.0	-	2.0	
3.	Greenbelt	2.0	-	2.0	-	
4	Area Washings	0.5	-	0.5	-	
5	Domestic	1.5	1.5	-	-	Septic Tank followed By Soak pit
Total		9.0	5.5	3.5	5.0	

11. **Power requirement and solar power details:** Total power requirement for the proposed project would be approx. 150 kVA which will be sourced from TP western Odisha Distribution Limited (TPWODL). Additionally 1 No. of DG set will be provided of capacity 75kVA to be used in case of power supply failure/emergency.
12. **Solar Power generation:** About 3000 sq. ft. roof top area will be there, which will be used for installation of solar panels for generation of 15 kVA electricity generation which will be 0.1% of the total power consumption.
13. **Rainwater harvesting details:** As the proposed facility is for management of infectious biomedical waste, there are possibilities rainwater getting contaminated at site hence rain water recharge pits shall not be installed. Proper storm water drainage system shall be laid to ensure and prevent any contamination before disposal into natural drain or collection tank for its use for washing or maintaining green areas.
14. **Solid waste generation:** Municipal Solid waste of quantity approx. 3.75 kg/day will be generated (considering 0.125 kg /person). Hazardous waste like Used oil (0.5 TPA), Incineration waste (15-20 kg/hr) and ETP sludge (80-100 kg/month) of hazardous waste will be generated.
15. **Mitigation of solid waste produced:** Municipal solid waste will be segregated into organic and inorganic waste. Organic waste will be managed by composting whereas inorganic waste will be sent to authorize waste management agency.

Schedule	Type of the Hazardous waste	Quantity	Mode of Disposal
5.1	Used Oil	0.5 TPA	Reused as lubricant in plant and machinery/ send to authorized recyclers.

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36.2	Incineration Ash	15-20 Kg/hr	Send to TSDF site for land filling.
34.3	ETP Sludge	80-100 Kg/Month	Send to TSDF site for land filling.

16. **Greenbelt development:** Green belt will be developed over 33.36% area of the total plant area. Out of the 1.058 acre of the plant area, 0.353 acre will be developed for plantation. Considering 2500 nos of trees per ha, this CBWTF area will require 358 trees for raising greeneries around the unit. Hence, we are proposing total 360 trees. A budget of approx. Rs. 1.05 Lakh has been kept for green belt development.
17. **Total Employment:** Total 30 persons are proposed to hire for plant operations including officers, skilled and unskilled workers.
18. **Project cost:** The estimated project cost is 1.90 Crores and capital cost for EMP is 34.05 lakhs and recurring cost is 5.85lakhs.

Details of CER activities

Sr. No.	Activities	Budgetary Details (in lakhs)
1.	Providing infrastructure facilities such as beds, medical instruments etc. to the medical centres in Adampur government hospital	1.0
2.	Distributions of Dust Bins and arrangement of Garbage disposal to local authorities.	0.20
3.	Solar light installation at village	1.0
Total		2.20

Details of EMP activities

Sr. No.	Particulars	Capital Cost (In Lakhs)	Recurring Cost (In Lakhs)
1	Solid & Hazardous Waste management	5.0	1.5
2	Water and Waste water management	10.0	2.0
3	Air Pollution Control & Monitoring System	15.0	1.5
4	Greenbelt Development	1.05	0.35
5	Occupational Health & safety, Fire Protection measures	3.0	0.50
Total		34.05	5.85

19. **Environment Consultant:** The Environment consultant M/s **Gaurang Environmental Solutions Pvt. Ltd, Jaipur** along with the proponent made a presentation on the proposal before the Committee on 02.12.2023.
20. The SEAC in its meeting dated **02-12-2023** 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
i)	Permission from local authority for settling up of the proposed project.	Permission from the local authority i.e., Gram panchayat NOC is enclosed herewith as Annexure 1 .	submitted
ii)	Submit a detailed layout of the	Detailed plant layout demarcating the	Submitted

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	proposed project showing all process, materials storage, and handling units.	process area, entry/exist. Vehicle washing area, Greenbelt etc. has been enclosed as Annexure 2.	
iii)	Regarding disposal of the incinerator ash it is mentioned as landfill in the online documents. However, during the presentation it was mentioned for disposal at M/s. Re-Sustainability limited site (TSDf). The proponent needs to submit clarification in this regard.	No land filling has been proposed at the site. The Ash generated from incinerator will be handed over to the nearest TSDf site.	-
iv)	Precautionary measures shall be undertaken for protection of adjacent agricultural lands and nearby school located at 400m, distance.	Details of precautionary measures to be implemented for protection of adjacent agricultural lands and nearby school located at 400m distance are enclosed as Annexure 3.	complied
v)	A buffer zone of 500m needs to be demarcated around the project site as per CPCB guidelines.	Map demarcating buffer zone of 500m around the project site is enclosed as Annexure 4.	complied
vi)	Details of the wastewater treatment system/technology adopted with inlet and outlet water parameters.	Details of the wastewater treatment system/technology proposed to be installed along with (As it is a proposed Greenfield project) outlet water parameters are enclosed as Annexure 5.	complied
vii)	Precautionary measures to be undertaken during transportation of the biomedical waste as well as their storage and handling from their source of generation.	Precautionary measures proposed to be implemented for transportation of biomedical waste as well as their storage and handling from their source of generation is enclosed as Annexure 6.	complied
viii)	Specific measures to be followed by the M/s. Re-Sustainability limited for handling the incinerator waste for disposal.	The details of clarification for disposal of the Incineration waste at M/s Re-Sustainability limited are enclosed as Annexure 7.	complied
ix)	Precautionary measures followed for storing the diesel at the project site.	Diesel will be stored at project site following below mentioned precautionary measures. <ol style="list-style-type: none"> 1. Diesel will be stored in drums under covered storage. 2. Only trained and experienced personnel will be deployed for handling operations of Diesel. 3. All safety precautions will be taken at the storage area of the Diesel. 4. Fire protection measures and fire extinguishers will be provided at the area. 5. Emergency evacuation and response plan will be made and will be implemented in case of emergencies. 	-
x)	The proposed site is located within	Detailed write-up in regards of the	Justification

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	75 K.M. from another existing CBWTF at Balangir. A petition has been received from the proponent of CBWTF at Balangir not to allow this proposed CBWTF at Binika, Dist. Subarnapur as same is not confirmed to the siting criteria as per CPCB guidelines. The PP has to clarify as to why this proposal shall not be rejected due to non-confirm to the siting criteria. A detailed writeup in this regard shall be submitted.	<p>proposed site located within 75 K.M from another existing CBWTF at Balangir is enclosed as Annexure 8.</p> <p>The project proponent has clarified the following:</p> <ul style="list-style-type: none"> Distance from other CBWTFs is not less than 70 kms. In this point there are other CBWTFs in other states are very nearest, and those comes under same district of a state nearing about 2 kms distance on road way and those have been granted with the "Environment Clearance" for set up of CBWTF and the detailed are presented in the next points showing the nearest CBWTFs within the radius of 70 kms. On road way where the air distances will be naturally less than road ways. The next point table shows the clear idea about the nearer to nearest CBWTFs has been operating and has obtained EC. 	submitted

21. The SEAC in its meeting dated 30-01-2024 decided recommended to return the proposal to SEIAA, Odisha with a request to seek clarification from CPCB, Delhi whether EC can be granted to this CBWTF as per clarification given by the project proponent indicating that EC has been granted in other CBWTF of other State within a distance of 2 kms from another CBWTF.

22. The proposal was placed in 163rd SEIAA, Odisha meeting held on 18.04.2024 & 19.04.2024 and after detailed deliberation in the matter, the authority decided to seek clarification / information on the following:

- (i) The PP is required to explain why the application shall not be rejected in terms of the Common Biomedical Waste Treatment and Disposal Facility Guidelines, 2016 of CPCB.

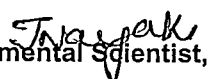
23. The PP has submitted ADS reply vide letter no. 32/BTS/2024 dt. 02.05.2024.

24. The SEIAA in its 167th meeting held on dated 03-06-2024 decided that the proposal be Referred back to SEAC for their considered views on the ADS reply of the PP.

After detailed discussion, the SEAC reiterates its earlier recommendation to seek clarification from CPCB, Delhi whether EC can be granted to this CBWTF as per clarification given by the project proponent indicating that EC has been granted in other CBWTF of other State within a distance of 2 kms from another CBWTF.


MEMBER SECRETARY, SEAC

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Environmental Scientist, SEAC

TERMS OF REFERENCE (TOR) FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT FOR M/S PRIME INDUSTRIES FOR CHROME ORE BENEFICIATION PLANT WITH THROUGHPUT CAPACITY OF 18,500 TPA WITHIN THE EXISTING CHROME MONOLITHIC UNIT IN RAHANJA INDUSTRIAL ESTATE, VILLAGE RAHANJA OF BHADRAK DISTRICT OF SRI SUMAN SWAIN - TOR

1. The alternate sites considered, the relative merits and demerits and the reasons for selecting the proposed site for the Beneficiation Plant should be indicated.
2. Details of the technology and process involved for beneficiation should be given.
3. Location of the proposed Plant w.r.t. the source of raw material and mode of transportations of the ore from mines to the beneficiation plant should be justified.
4. Treatment of run of mine (ROM) and or of the fines/waste dump should be spelt out.
5. Estimation of the fines going into the washings should be made and its management described.
6. Details of the equipment, settling pond etc. should be furnished.
7. Detailed material balance should be provided.
8. Sources of raw material and its transportation should be indicated. Steps proposed to be taken to protect the ore from getting air borne should be brought out.
9. Management and disposal of tailings and closure plan of the tailing pond, if any after the project is over, should be detailed in a quantified manner.
10. The water requirement for the project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should also be indicated.
11. A copy of the document in support of the fact that the Proponent is the rightful lessee of the unit should be given.
12. All documents including EIA and public hearing should be compatible with one another in terms of the production levels, waste generation and its management and technology and should be in the name of the lessee.
13. All corner coordinates of the Unit, superimposed on a High Resolution Imagery/Toposheet should be provided. Such an Imagery of the proposed Unit should clearly show the land use and other ecological features of the study area (core and buffer zone).
14. Issues relating to Safety should be detailed. The proposed safeguard measures in each case should also be provided. Disaster management plan shall be prepared and included in the EIA/EMP Report.
15. The study area will comprise of 10 km zone around the Plant.

16. Cumulative impact study of both Beneficiation Plant with suggested mitigation measures as per the study should be described.
17. Option to provide only silo for storage of minerals instead of open stacking to avoid fugitive dust should be explored and arrangements finalized justified.
18. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
19. Details of the land for any Over Burden Dumps outside the lease, such as extent of land area, distance from lease, its land use, R&R issues, if any, should be given.
20. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the Project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
21. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
22. A study shall be got done to ascertain the impact of the Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required, should be worked out with cost implications and submitted.
23. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
24. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

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25. Proximity to Areas declared as 'Critically Polluted' shall also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB/CPCB shall be secured and furnished to the effect that the proposed activities could be considered.
26. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects, should be discussed in the report.
27. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the unit in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
28. Air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
29. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
30. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be secured and copy furnished. .
31. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
32. Impact of the project on the water quality, both surface and groundwater should be assessed and necessary safeguard measures, if any required, should be provided.

33. Details of any stream, seasonal or otherwise, passing through the project area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
34. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the project. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to the pollution.
35. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
36. Details of the onsite shelter and facilities to be provided to the workers should be included in the EIA report.
37. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area should be detailed.
38. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
39. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
40. Public hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
42. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
43. A brief background of the Project, its financial position, Group Companies and legal issues etc. should be provided with past and current important litigations if any.
44. Benefits of the Project, if the project is implemented should be outlined. The benefits of the projects shall clearly indicate environmental, social, economic, employment potential, etc.

45. Besides the above, the below mentioned general points are also to be followed:-
- (a) Executive Summary of the EIA/EMP Report
 - (b) All documents to be properly referenced with index and continuous page numbering.
 - (c) Where data are presented in the report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - (d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the project.
 - (e) Where the documents provided are in a language other than English, an English translation should be provided.
 - (f) The Questionnaire for environmental appraisal of project as devised earlier by the Ministry shall also be filled and submitted.
 - (g) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should also be followed.
 - (h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered.
 - (i) Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation. As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified Report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project by the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
46. **THE TORS PRESCRIBED SHALL BE VALID FOR A PERIOD OF THREE YEARS FOR SUBMISSION OF THE EIA-EMP REPORTS ALONG WITH PUBLIC HEARING PROCEEDINGS (WHEREVER STIPULATED) AS PER MOEF&CC, GOVT. OF INDIA O.M. NO. J-11013/41/2006-IA-II(I)(P), DATED 07.11.2014.**

TERMS OF REFERENCE (ToR) FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT FOR M/S SUBHLABH CEMENTS PRIVATE LIMITED FOR REGULARIZATION OF THE EXISTING PROJECT OF SUBHLABH CEMENT PVT. LTD. HAVING CAPACITY OF 90,000 MT/ANNUM, (TMT BAR, ANGLE, CHANNEL, FLATS, SQUARE BAR AND ROUNDS, MS PLATE, MS STRIPS, MS PIPES, MS SHEETS ETC.) OVER AN AREA 5 ACRES LOCATED AT MANDIAKUDAR, TEHSIL-RAJGANGPUR, DIST.- SUNDARGARH OF SRI SANOJ KUMAR AGARWAL - TOR.

STANDARD TERMS OF REFERENCE (TOR):

1. Executive Summary.

2. Introduction

- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent.
- iii. Importance and benefits of the project.

3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
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- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).
- ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
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- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

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7. Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards. vi. Measures for fugitive emission control
- vi. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- vii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- viii. Action plan for the green belt development plan in 33 % area i.e. land with not less than
- ix. 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
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8. Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
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- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
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TERMS OF REFERENCE (ToR) FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT FOR M/S COGENT STEEL AND PIPES PRIVATE LIMITED FOR REGULARIZATION OF EXISTING ROLLING MILL FOR THE PRODUCTION OF REROLLED STEEL PRODUCTS (M.S. PIPE) – 90,000 MTPA OVER AN AREA 2.4 ACRES (0.97 HECT.) AT KHATA NO. 13, PLOT NO. 764/P, 765, 803/P, 802/1110, 764/1112, 803, 804/1111 & KHATA NO. 73/80, PLOT NO.804/1178, VILLAGE- LODOSARA, P.S.-BIRAMITRAPUR, TEHSIL- KUARMUNDA DISTRICT- SUNDARGARH OF SRI PRATIK GUPTA - TOR.

STANDARD TERMS OF REFERENCE (TOR):

1. Executive Summary.

2. Introduction

- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent.
- iii. Importance and benefits of the project.

3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
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