

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 28<sup>TH</sup> AUGUST 2023**

The SEAC met on 28<sup>th</sup> August 2023 at 10:30 AM in the Conference Hall of Odisha State Pollution Control Board, Bhubaneswar under the Chairmanship of Sri Sashi Paul. The following members were present in the meeting.

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

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

**ITEM NO. 01**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF CONSTRUCTION OF “B+S+9 STORIED (BLOCK A & BLOCK B) & G+2 RESIDENTIAL MULTI-STOREYED APARTMENT” BY ORISSA STATE HOUSING BOARD, BHUBANESWAR OVER AN BUILT-UP AREA 27739.104 SQ.M LOCATED AT DUMDUMA (PH – VI), BHUBANESWAR OF SRI NARAYAN MAJHI – VIOLATION EC**

1. This proposal is for Environmental Clearance of Construction of “B+S+9 storied (Block A & Block B) & G+2 residential multi-storeyed apartment” By Orissa State Housing Board, Bhubaneswar over an built-up area 27739.104 sqm located at Dumduma (PH – VI), Bhubaneswar of Sri Narayan Majhi.
2. **Category:** This project falls under Category “B”, Project or Activity 8(a) Building and Construction projects as per EIA Notification dated 14th Sep, 2006 as its amendments.
3. **Violation justification:** As the built-up area is now greater than 20,000 Sq.m, Environment clearance is required for the project as per EIA Notification, 14<sup>th</sup> September 2006, and subsequent amendments. As the construction of the project has been completed, the project is coming under violation to EIA Notification 2006. Violation ToR was issued for EIA Study by the SEIAA, Odisha vide file no. SIA/OR/MIS/70699/2021, vide letter no. 4182/SEIAA dated 03.03.2022.
4. **Location and connectivity:** The project site is at Plot No. 1122 (P), Khata No. 516, Mouza – Dumduma, Bhubaneswar, Odisha, Kissam of Land - Gharabari with total Built up area: 27739.14 sq. m and Plot area is 8658.066 Sqm bearing Toposheet No. 73 H/16. The site co-ordinates of

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Asst. Environmental Scientist

the project site are:- Latitudes 20°14'29.32"N to 20°14'34.14"N and Longitudes 85°47'11.06"E to 85°47'15.37"E The nearest approach Road is NH 16 is at 1.1 Km and Khandagiri Marg is at 0.7 Km. The nearest Airport (Bhubaneswar) is 2.5 km.

- The site is coming under Bhubaneswar Development Authority. The land area of the project is 0.8648 Ha which is coming under Patita Kissam and converted to Gharabari kissam by Odisha state Housing board and used for construction of multistoried apartment.
- Area statement:**

AREA STATEMENT											
PLOT AREA = 8648.066 SQ. MT. (2.137Ac.)											
FLOORS	COVERED PARKING AREA (IN SQ.MT.)			COMMON AREA (STAIRCASE, LIFT, LOBBY & SERVICES) (IN SQ.MT.)			BUILT - UP AREA (IN SQ.MT.)			TOTAL BUILT - UP AREA (IN SQ.MT.)	TOTAL FLOOR AREA IN ONE FLOOR (IN SQ.MT.)
	BLOCK - A	BLOCK - B	BLOCK - C	BLOCK - A	BLOCK - B	BLOCK - C	BLOCK - A	BLOCK - B	BLOCK - C	Block-A, Block-B & Block -C	Block-A, Block-B & Block -C
BASEMENT	4023.18			268.58							4291.76
STILT FLOOR	1313.37	961.31		232.03	181.53						2688.24
GROUND FLOOR									220.40	220.40	220.40
FIRST FLOOR							1303.36	957.86	220.40	2481.62	2481.62
SECOND FLOOR							1284.88	944.71	220.40	2449.99	2449.99
THIRD FLOOR							1284.88	944.71		2229.59	2229.59
FOURTH FLOOR							1284.88	944.71		2229.59	2229.59
FIFTH FLOOR							1284.88	944.71		2229.59	2229.59
SIXTH FLOOR							1284.88	944.71		2229.59	2229.59
SEVENTH FLOOR							1284.88	944.71		2229.59	2229.59
EIGHTH FLOOR							1284.88	944.71		2229.59	2229.59
NINTH FLOOR							1284.88	944.71		2229.59	2229.59
<b>TOTAL</b>	<b>5338.55</b>	<b>961.31</b>		<b>500.61</b>	<b>181.53</b>		<b>11582.40</b>	<b>8515.54</b>	<b>661.20</b>	<b>20759.14</b>	<b>27739.14</b>
SOCIETY ROOM AREA = 220.40 SQ.MT.											
BASEMENT PARKING AREA = 4023.18 SQ.MT.											
STILT PARKING AREA = 2274.88 SQ.MT.											
OPEN PARKING AREA = 130.00 SQ.MT.											

7. Building details:

Particulars	Proposed Group Housing Project
Project area (Sq.m)	2.137 Acre / 8648.066 Sq. m
Maximum numbers of floors	G+S+9 (Block A & B), G+2 (Block C)
No. of dwelling units	126(72 in Block A & 54 in Block B)
Total population	750(Approx.)
Floor area ratio (FAR)	2.40 (Req. 2.75)
Built up area (Sq.m)	27739.14
Building Height (m)	29.9
Project cost (Lakhs)	7075.95
Cost incurred during period of violation	1348.00 Lakhs

Parking Provided	6427.86 Sq.m (30.96 %)
Power (Required) (in KW)	1178 Kw
DG Set no & Capacity (KVA)	125 kVA (1 nos)
Fresh water requirement (KLD)	104
Waste water requirement (KLD) for flushing & gardening	20 (Gardening & Floor Washing)
Proposed capacity of STP (KLD)	100
Solid waste generation (Kg/day)	472.5
Green areas (Sq.m)	1730.00 (20%.)
Achieved FAR	2.40 (2.75)

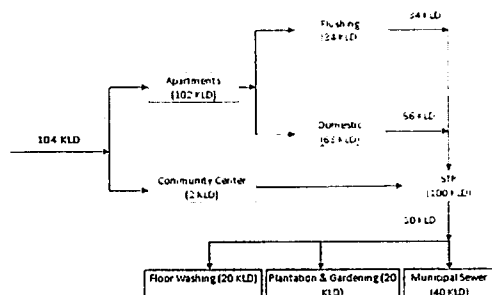
8. **Baseline study** was conducted in month of April 2022. Following are the observations as mentioned in table.

PERIOD	April 2022	Applicable Standards
AAQ PARAMETERS AT 5 LOCATIONS	PM <sub>2.5</sub> – 33.6 to 46.2 µg/cu.m	60 µg/cu.m
	PM <sub>10</sub> – 61.1 to 84.0 µg/cu.m	100 µg/cu.m
	SO <sub>2</sub> – 6.5 to 13.9 µg/cu.m	80 µg/cu.m
	Nox – 15.2 to 23.5 µg/cu.m	80 µg/cu.m
Ground water Quality at 4 Locations	pH – 6.9 to 7.2	6.5 to 8.5
	Total Hardness – 52 to 72 mg/l	600 mg/l
	Chloride - 10 to 16 mg/l	250 mg/l
	Fluorides – < 0.05 mg/l	1.5 mg/l
	TDS – 80 to 128 mg/l	1000 mg/l
	Heavy metals : BDL (Cd <0.001, As <0.01, Hg<0.0001) mg/l Detection limits of analysis method	Heavy metals: (Cd <0.003, As <0.01, Hg<0.001) mg/l
Surface water at 2 locations	pH – 7.2 to 7.4	
	Dissolved Oxygen – 6.4 to 6.6 mg/l	
	Biochemical Oxygen Demand – 2 to 2.5 mg/l	
	Chemical Oxygen demand – 8 to 10 mg/l	
Noise at 8 locations	Day (dBA Leq)- 48.8 to 65.5	55
	Night (dBA Leq) - 39.6 to 55.6	45

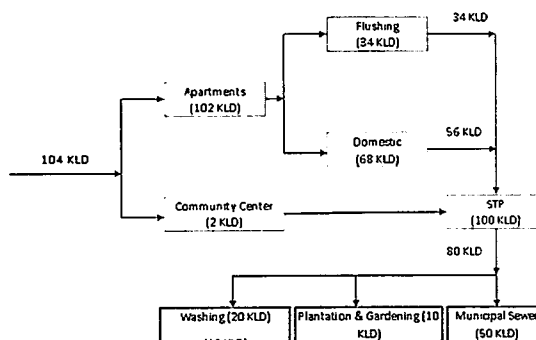
PERIOD	April 2022	Applicable Standards
Soil Quality at 5 locations	pH –6.0 to 6.8 Potassium – 80.6 to 104.8kg/Ha. , Phosphorous – 40.6 to 69.6 kg/Ha , Total Organic Carbon % –0.56 to 1.17, Electrical Conductivity- 72 to 110 $\mu$ s / Cm.	

9. **Water requirement:** The water use in the apartments will be 114 KLD, out of which 104 KLD will be for domestic use and rest will be utilized for gardening purpose. The domestic water requirement will be made available through WATCO supply.

#### Water Balance (Non-Monsoon)



#### Water Balance (Monsoon)



10. **Waste water generation:** Total waste water generation from the apartments will be 90 KLD which will be treated through the sewage treatment plant of 100 KLD capacities. 10 KLD of treated waste water will be used for gardening purpose, 10 KLD will be utilized for floor washing and rest 60 KLD of treated water will be discharged to municipal sewage drain located near the project site.

Description		Quantity
Total Domestic Water requirement	=	102 KL
Total Sewage Load	=	100 KL
Net Sewage flow - 90% of total sewage load	=	90 KL
Hence, Sewage Treatment Plant capacity	=	100 KLD
Underground tanks for Domestic uses (8 nos.)	=	160 KL
Underground tank capacity (For Fire Fighting)	=	50 KL

11. **Power requirement:** Total Electricity Requirement for the proposed project is 1178 KW. Household Requirement is 1153 KW; Community Hall: 15 KW; Street Lightning: 5 KW. 2nos of 125 KVA DG sets have been installed as standby to electric power supplied by the State Electricity Board power.

12. **Solar Power Break Up:** Outdoor solar lighting @ 150 Watt x 22 nos of solar poles= 3300 W (3.3 KW); Common area lighting = 5000 W (5.0 KW); Solar water heating system @10 KW x 5 Nos = 50KW; Total Solar Power= 58.3 KW (5% of total power).

13. **Rainwater harvesting:** There are 4 recharge pits within the campus. The capacity of each recharge pits will be 45 cum. The rain water recharge pit has been designed to recharge about

180 cum of rain water per 15 min from the project site. Harvestable rain water from the site is 110.3 cum/15 min.

14. **Parking requirement:** Total parking provided = 6427.86 Sq. m (30.96%) (281 ECS) consists of Open parking area = 130.00 Sq. m (6 ECS); Silt floor parking = 2274.68 Sq. m (100 ECS); Basement Parking = 4023.18 Sq. m (175 ECS).
15. **Fire Fighting installations:** Fire Fighting NOC obtained from Range Fire Officer, Central Range-II, Bhubaneswar vide Certificate No. FIRCER 1204130022021000682, Dtd.14/12/2021 valid up to Dtd.13/12/2026.
16. **Greenbelt development:** As the construction activity has already carried out for the project, out of the total area 8648.066 sqm; approx. 2095 sqm. (25%) area already filled with greeneries. Total 550 saplings to be planted within the project site and spacing between plants will be 2m.
17. **Solid waste management:** Total amount of solid waste generated during operation phase of the project will be 472.5 kg/day. The recyclable material like thermocol, cartoon boxes, newspaper waste is given back to suppliers for recycling. The domestic waste materials like food waste, vegetable waste and others will be disposed through BMC. The sludge generated from the STP (5 Kg approx.) will be dried in sludge drying yard and used as fertilizer for the plants within the project site. The organic waste will be treated through Organic Waste Converter.
18. **Details of court cases:** As per SEIAA, Odisha letter no. 3748 dated 30.10.2017; it was intimated that as the proponent has started the construction work at the site without obtaining Environment Clearance from the authority under EIA Notification 2006, the matter has to be considered as Case of Violation of Environment Protection Act, 1986 due the starting of construction work at the site while the EC application was pending for consideration.
19. **Project cost:** The estimated project Cost is 7075.95 Lakhs. The capital cost for EMP is Rs.111.82 Lakhs and the recurring cost will be Rs. 6.8 Lakhs per annum.

**20. Cost estimation for violation:**

Budget under Remediation plan based on the damage assessment due to violation =  
Rs. 2,34,66,049.00.

Budget for Natural Resource Augmentation Plan = Rs. 42,00,000.00.

Total allocated budget for Damage assessment and Natural resource augmentation is Rs. 2,76,66,049.00.

Cost allocated for the activities already carried out for the project: Rs. 2,13,81,049.00.

Sl. No	Activities	Total Cost (Rs.)
A	Budget under Remediation plan based on the damage assessment due to violation	2,34,66,049.00
B	Natural Resource Augmentation Plan	42,00,000.00
	<b>Total</b>	<b>2,76,66,049.00</b>
	Cost allocated for the activities already carried out for the project	2,13,81,049.00
	Proposed Budgetary allocation towards implementation of Remediation plan based on the damage assessment and natural resource augmentation plan due to violation	62,85,000.00

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21. **Cost incurred during period of violation as declared by PP and certified by CA:** 13.48 Crores. Penalty provision as calculated is 1% of the project cost Rs. 13.48 Lakhs.

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

Considering the information furnished and the presentation made by the consultant **M/s Kalyani Laboratories Pvt. Ltd., Bhubaneswar** along with the project proponent, the SEAC recommended the following:

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

- a) As per the SOP of violation case, penalty will be given 1% of the project cost. However, the percentage rate will be halved if the project proponent suo-moto declares the violation. The proponent during presentation claimed that they have suo-moto declare the project under case of violation. But, in this case violation has been identified by the sub-committee during visit in the year 2017 and directed the project proponent to apply for EC as violation case. Hence, the request of the proponent is not acceptable.
- b) Project proponent must reduce the 40 KLD water discharge by increasing green belt.
- c) The committee suggested for usage of STP treated water for gardening purpose. In addition, a proper STP system/STP enhancement shall be provided for standby along with UV system. Residents shall be informed about the same.
- d) Resubmit Revenue layout and design layout.
- e) The proposed project is a violation case as the construction has been done before the grant of EC. Hence, the project proponent must disclose the turnover so that the penalty for violation can be calculated as per the same.
- f) Cost for damage assessment is less. Revisit the cost estimation and submit.
- g) Status of legal case filed if any as per ToRs issued for violation case.

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

- i) Environmental settings of the project site.
- ii) Extent of construction activity.
- iii) Road connectivity to the project site.
- iv) Drainage network at the site.
- v) Discharge point for discharge of treated water and distance of the discharge point from the project site.
- vi) Greenbelt area.
- vii) Status of implementation of pollution control measures and other remedial measures as indicated in the cost for damage assessment.
- viii) Any other issues including local issues

**ITEM NO. 02**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF CONSTRUCTION B+S / G+8 RESIDENTIAL APARTMENTS” BY ORISSA STATE HOUSING BOARD, BHUBANESWAR OVER AN BUILT-UP AREA 45614.04 SQ.M LOCATED AT DUMDUMA (PH – VII), BHUBANESWAR OF SRI NARAYAN MAJHI – EC**

1. This proposal is for Environmental Clearance of Construction B+S / G+8 residential apartments” By Orissa State Housing Board, Bhubaneswar over an built-up area 45614.04 sq.m located at Dumduma (PH – VII), Bhubaneswar of Sri Narayan Majhi.
2. **Category:** This project falls under Category “B”, Project or Activity 8(a) Building and Construction projects as per EIA Notification dated 14th Sep, 2006 as its amendments.
3. **Violation justification:** As the built-up area is now greater than 20,000 Sq.m, Environment clearance is required for the project as per EIA Notification, 14<sup>th</sup> September 2006, and subsequent amendments. As the construction of the project has been completed, the project is coming under violation to EIA Notification 2006. Violation ToR was issued for EIA Study by the SEIAA, Odisha vide file no. SIA/OR/MIS/70722/2021, vide letter no. 4183/SEIAA dated 03.03.2022.
4. The site is coming under Bhubaneswar Development Authority and is approved by BDA vide letter no. 8906 dated 16/11/2015 & implemented by OSHB.
5. **Location and connectivity:** The proposed project is located Plot No. 1124, 1125 under Khata No. 519 & 517, Mouza – Dumduma, Bhubaneswar, Odisha, Land Kissam – Gharabari in Survey of India Toposheet No. 73 H/16. Total built up area 45614.04 sq. m. and plot area of 15584.39 Sq. m. The site co-ordinates of the project site are:- Latitudes 20°14'25.16"N to 20°14'29.14"N and Longitudes 85°47'03.81"E to 85°47'07.90"E. The nearest roads are NH- 5 which is at 1.2 km and Khandagiri Marg is 0.7 Km. The nearest Airport is at Bhubaneswar which is at 2.6 km.
6. The total plot area is 15584.39 sq.m/ 3.851 Ac./ 1.56 Ha. with total built-up area of 45614.04 sq.mt.
7. **Building details:**

Particulars	Proposed Group Housing Project
Project area (Sq.m)	15584.39 sq.m.
Maximum numbers of floors	B+S/G+8
No. of dwelling units	EWS flats G/S+4 in 5 blocks (276), LIG flats S+8 2 blocks (160), MIG flats B+G/S+8 2 blocks (196) Total – 632 units, 9 blocks and 6 nos. of shopping Kiosks
Total population	2700(Approx.)
Floor area ratio (FAR)	2.45 ( Req. 2.75)
Built up area (Sq.m)	45614.04
Building Height (m)	27.0
Project cost (Lakhs)	9821.57
Parking Provided	8495.52 Sq.m

Power (Required) (in KW)	1925Kw
DG Set no & Capacity (KVA)	2 nos. of 125 kVA DG set and 2 nos. of 100 kVA DG
Fresh water requirement (KLD)	371
Waste water requirement (KLD) for flushing & gardening	40 (Gardening & Floor Washing)
Proposed capacity of STP (KLD)	350
Solid waste generation (Kg/day)	1700
Green areas (Sq.m)	4621 Sq.m

8. **Baseline study:** Baseline study was conducted in month of April 2022. Following are the observations as mentioned in the below table:

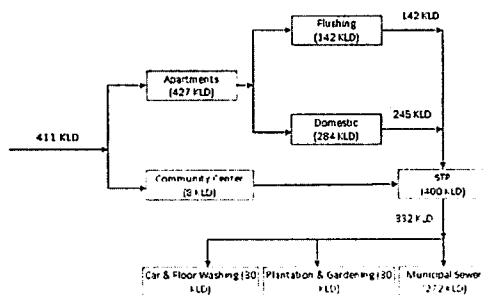
PERIOD	April2022	Applicable Standards
AAQ PARAMETERS AT 5 LOCATIONS	PM2.5 – 33.6 to 46.2 µg/cu.m	60 µg/cu.m
	PM10 – 61.1 to 84.0 µg/cu.m	100 µg/cu.m
	SO2 – 6.5 to 13.9 µg/cu.m	80 µg/cu.m
	Nox – 15.2 to 23.5 µg/cu.m	80 µg/cu.m
Ground water at 4Locations	pH – 6.9 to 7.2	6.5 to 8.5
	Total Hardness – 52 to 72 mg/l	600 mg/l
	Chloride - 10 to 16 mg/l	250 mg/l
	Fluorides – < 0.05 mg/l	1.5 mg/l
	TDS – 80 to 128 mg/l	1000 mg/l
	Heavy metals : BDL (Cd <0.001, As <0.01, Hg<0.0001) mg/l Detection limits of analysis method	Heavy metals: (Cd <0.003, As <0.01, Hg<0.001) mg/l
Surface water at 2 locations	pH – 7.2 to 7.4	
	Dissolved Oxygen – 6.4 to 6.6 mg/l	
	Biochemical Oxygen Demand – 2 to 2.5 mg/l	
	Chemical Oxygen demand – 8 to 10 mg/l	
Noise at 8 locations	Day (dBA Leq)- 48.8 to 65.5	55
	Night (dBA Leq) - 39.6 to 55.6	45



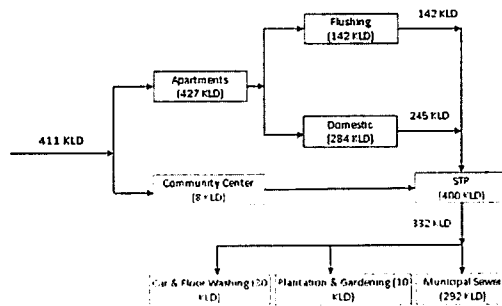
PERIOD	April 2022	Applicable Standards
Soil Quality at 5 locations	pH -6.0 to 6.8 Potassium - 80.6 to 104.8kg/Ha. , Phosphorous -40.6 to 69.6 kg/Ha , Total Organic Carbon % -0.56 to 1.17, Electrical Conductivity- 72 to 110µs / Cm.	

9. **Water requirement:** During the operational phase total water requirement for the project will be 431 KLD out of which freshwater requirement will be 371 KLD and recycled water requirement will be 60 KLD. Total wastewater generation from the project will be 368 KLD and will be treated through 400 KLD STP. Total wastewater generated from the STP will be 332 KLD. The treated water from STP (232 KLD) will be utilized for gardening, car & floor washing. 30 KLD of treated wastewater will be used for gardening purpose, 30 KLD will be utilized for floor washing and rest 272 KLD of treated water will be discharged to municipal sewage drain.

**Water Balance (Non-Monsoon)**



**Water Balance (Monsoon)**



10. **Power requirement:** Total Requirement: 1925KW; Household Requirement : 1920KW; Street Lightning: 5 KW; Transformers: 2 Nos. of 500 KVA and 2 Nos. of 250 KVA, Four nos. of DG sets (2x250 kVA and 2 x 500 kVA) has been installed. Solar Power Break Up is as follows; Outdoor solar lighting @ 200 Watt x 30nos. of solar poles = 6000 W (6KW); Common area lighting = 10000W (5.0 KW); Solar water heating system @10 KW x 8 Nos = 80KW; Total Solar Power= 96 KW (5% of total power).

Solar Power Break up	
Outdoor solar lighting @ 200 Watt x 30 nos of solar poles	6000 W (6 KW)
Common area lighting	10000 W (5.0 KW)
Solar water heating system @10 KW x 8 Nos	80 KW
Total Solar Power	96 KW (5% of total power)
<b>Energy conservation Measures Proposed:</b>	
Use of Solar power, Use of LED lights for illumination in the room (reduces electricity use 40%), Star rated electrical equipments, high efficiency transformers, Energy efficient cables and wires	

11. **Rainwater harvesting details:** Runoff coefficient is 0.80 for roof top area, 0.60 for parking area and road, 0.20 for green area. Based on the above harvested quantity of rain water harvested is as ; Harvested quantity of rain water from roof top area = 514 cu.m, Harvested quantity of rain water from Road and parking area = 2.25 cu.m, Harvested quantity of rain water from Green area

= 138 cu.m; Total harvestable quantity of rainfall from the project site = 654 cu.m. No of recharge pits required = 4 nos.

12. **Parking details:** Total parking provided = 8495.52 sqm / 369 ECS which includes Open parking area = 65.00 sqm (3 ECS); Silt floor parking = 3564.46 sqm (155 ECS); Basement Parking = 4282.20 sqm (186 ECS); Ground floor Parking = 583.86 sqm (25 ECS).
13. **Fire Fighting:** NOC obtained from Range Fire Officer, Central Range-II, Bhubaneswar vide Certificate No. FIR CER 1204130022021000701, Dtd.21/12/2021 valid up to Dtd.20/12/2026.
14. **Greenbelt:** There are total 770 nos. Saplings that will be planted in the area of 4621sqm which is 30 % of the total plot area. Three tier plantations are proposed for the project. However, a single tier plantation along the boundary has been developed.
15. **Solid waste generated and its management:** About 1700 Kg of solid waste per day (@0.625 Kg/ capita/day) will be generated from the proposed group housing project which includes bio degradable and non-biodegradable waste. There is a proposal of installing 2 no. of Organic Waste Converter (OWC) unit in an apartment.
16. **Details of court cases:** As per SEIAA, Odisha letter no. 3748 dated 30.10.2017; it was intimated that as the proponent has started the construction work at the site without obtaining Environment Clearance from the authority under EIA Notification 2006, the matter has been considered as Case of Violation of Environment Protection Act, 1986 due the starting of construction work at the site while the EC application was pending for consideration.
17. **Project cost:** Estimated Project Cost is 9821.57 Lakhs. The capital cost for EMP is Rs.126.64 Lakhs and the recurring cost will be Rs. 8.0 Lakhs per annum.

Sl. No.	Particulars	Amount (Rs in Lakhs)
<b>Capital Cost</b>		
01	Installation of STP within the project site	57.68
02	Construction of Rain Water Harvesting structure and recharge pits	16.00
03	Plantation along the project boundary	3.30
04	Construction of Surface Water Drains	22.21
05	Construction of DG stack	10.0
06	Solid waste management	17.45
<b>Total</b>		<b>126.64</b>
<b>Recurring Cost</b>		
Sl. No.	Activities	Allocated Budget (Rs.)/ Annum
1.	Maintenance of STP	4,00,000.00
2.	Maintenance of Organic waste converted for utilization of organic waste	2,40,000.00
3.	Plantation and maintenance of the green belt and avenue plantation	50,000.00
4.	Regular maintenance of DG set and monitoring of DG stack	50,000.00
5.	Environmental monitoring	60,000.00
<b>Total</b>		<b>8,00,000.00</b>

18. **Estimated cost for violation proposal:** Budget under Remediation plan based on the damage assessment due to violation is Rs. 2,64,64,000. Budget for Natural Resource Augmentation Plan is Rs. 69,60,000.00. Total allocated budget for Damage assessment and Natural resource augmentation is Rs. 3,34,24,000.00. Cost allocated for the activities already carried out for the project: Rs. 2,63,49,000.00.

Sl. No	Activities	Total Cost (Rs.)
A	Budget under Remediation plan based on the damage assessment due to violation	2,64,64,000
B	Natural Resource Augmentation Plan	69,60,000.00
<b>Total</b>		<b>3,34,24,000.00</b>
<b>Cost allocated for the activities already carried out for the project</b>		<b>2,63,49,000.00</b>
<b>Proposed Budgetary allocation towards implementation of Remediation plan based on the damage assessment due to violation and Natural resource augmentation plan</b>		<b>70,75,000.00</b>

19. **Penalty Calculation as per the proponent:** Cost incurred during period of violation as declared by PP and certified by CA: 8.58 Crores. Penalty provision as calculated is: 1% of the project cost: Rs. 8.58 Lakhs.

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

Considering the information furnished and the presentation made by the consultant **M/s Kalyani Laboratories Pvt. Ltd.**, Bhubaneswar along with the project proponent, the SEAC recommended the following:

- A. **The proponent may be asked to submit the following for further processing of EC application:**
- As per the SOP of violation case, penalty will be given 1% of the project cost. However, the percentage rate will be halved if the project proponent suo-moto declares the violation. The proponent during presentation claimed that they have suo-moto declare the project under case of violation. But, in this case violation has been identified by the sub-committee during visit in the year 2017 and directed the project proponent to apply for EC as violation case. Hence, the request of the proponent is not acceptable.
  - Find provision for STP enhancement of load factor of 75% along with higher installed capacity and with proper standby.
  - Project proponent must reduce the 272 KLD water discharge by increasing green belt.
  - The committee suggested for usage of STP treated water for gardening purpose. In addition, a proper STP system/STP enhancement shall be provided for standby along with UV system. Residents shall be informed about the same.
  - The proposed project is a violation case as the construction has been done before the grant of EC. Hence, the project proponent must disclose the turnover so that the penalty for violation can be calculated as per the same.

vi) Cost for damage assessment is less. Revisit the cost estimation and submit.

vii) Status of legal case filed if any as per ToRs issued for violation case.

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

i) Environmental settings of the project site.

ii) Extent of construction activity.

iii) Road connectivity to the project site.

iv) Drainage network at the site.

v) Discharge point for discharge of treated water and distance of the discharge point from the project site.

vi) Greenbelt area.

vii) Status of implementation of pollution control measures and other remedial measures as indicated in the cost for damage assessment

viii) Any other issues including local issues

**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 3<sup>rd</sup> 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 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
	<b>Total</b>	<b>10.25</b>	<b>-</b>	<b>10.25</b>	<b>100</b>

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**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
3.	Cast iron/Ferro Alloy	2244	Gases & Fumes	1020
<b>Total</b>		<b>22440</b>	<b>Total</b>	<b>22440</b>

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

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
	<b>Hazardous Waste</b>		
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. 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

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S. No.	Particulars	Amount in INR, Lakhs	
		Capital Cost	Recurring Cost
6	Occupational Health & Safety	5	5
Total		80	30

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

Considering the information furnished and the presentation made by the consultant, M/s Parivesh Environmental Engineering Services, Lucknow along with the project proponent, the SEAC recommended the following:

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



**ITEM NO. 04**

**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

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.

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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)	
		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

S. No	Particulars	Amount (In lakhs)	
		Capital Cost	Recurring Cost/ Annum
	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.

Considering the information furnished and the presentation made by the consultant, M/s AmplEnviron Private Limited, Hyderabad along with the project proponent, the SEAC 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.

**ITEM NO. 05**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S AMBICA IRON & STEEL PVT. LTD. FOR REGULARIZATION OF RE-ROLLING MILL PLANT FOR RE-ROLLED STEEL PRODUCTS (TMT BAR, I-BEAM, ROUNDS, ROD, FLAT, CHANNEL & ANGEL) - 28180 MTPA, IN COMPLIANCE TO THE MOEF&CC NOTIFICATION NEW DELHI VID NO. S.O. 3250 (E) DATED 20TH JULY 2022 OVER AN AREA 3.48 ACRES AT PLOT NO. 243, 240, 239, 241 & 242 AT BELDIHI, P.O.-KALUNGA, DISTRICT- SUNDARGARH OF SRI SANJAY KUMAR BANSAL - 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 Ambica Iron & Steel Pvt. Ltd for Regularization of Re-Rolling Mill Plant for Re-rolled steel products (TMT Bar, I-Beam, Rounds, Rod, Flat, Channel & Angel)- 28180 MTPA, in compliance to the MoEF&CC Notification New Delhi vid no. S.O. 3250 (E) dated 20th July 2022 over an area 3.48 acres at Plot No. 243, 240, 239, 241 & 242 at Beldihi, P.o.-Kalunga, District- Sundargarh of Sri Sanjay Kumar Bansal.
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. The renewal of last consent was granted by State Pollution Control Board, Odisha vide Consent Order no. 19/2021-22(APC & WPC) dated 11.05.2022 which is valid up to 31.03.2024. Existing Industry operated on the basis of CTO obtained from Odisha Environment Conservation Board vide letter no. 1391/CTO-054 dated 11.05.2022, which is valid till 31.03.2024. Existing Capacity of the project is 28180 MTPA of Re-Rolled Steel Products.
5. **Location and connectivity:** M/s Ambica Iron & Steel Private Limited is located at Plot No. 243, 240, 239, 241 & 242 at Beldihi, P.O.- Kalunga, District- Sundargarh, Odisha bounded by Latitude 22°14'43.36"N and Longitude 84°45'9.16"E. The nearest Railway Station is Kalunga Railway Station which is located at about 3.0 km in SW direction and Rourkela Airport is at a distance of approx. 5.8km in E direction from the project site.
6. **Raw materials required :**

S.No.	Raw Material	Quantity (TPA)	Source	Mode of transport
1	Billets/Ingots	31,700	Open Market	Road

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 11.0 KLD, while the daily fresh water requirement is 8.0 KLD, about 3 KLD makeup water for cooling purpose, 3 KLD for plantation and dust suppression and 2.0 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	2	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.

S. No	Particulars	Waste generation (KLD)	Management
2	Domestic	1.6	Existing sewage is being disposed of into septic tank and soak pit.

9. **Solid waste generation and management:**

S. No	Particulars	Quantity	Management
1.	Municipal Solid Waste (Kg/day)@0.2kg/person	2.9	It is being Send to Municipal corporation
2.	Mill scale	1800	sold to nearby Billets manufacturing Unit
3.	End Cutting	1720	sold to nearby Billets manufacturing Unit
4.	Bottom Ash	1152	Will be used in land filling

10. **Power Requirement:** Total power requirement for plants is 2.5 MW. Source from State Electricity Board. A DG Set capacity of 125 KVA also provided standby.

11. **Greenbelt development plan:** Approx. 0.3493Ha. of total land availability is reserved for greenbelt development plan. About 875 Nos. (0.3493 ha 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. The tree species to be selected for the plantation are pollutant tolerant, fast growing, and wind firm, deep rooted. A three-tier plantation is proposed comprising of an outer most belt of taller trees which will act as barrier, middle core acting as air cleaner and the innermost core which may be termed as absorptive layer consisting of trees which are known to be particularly tolerant to pollutants.

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. **Project cost:** The existing project cost is 24.00 Crores. EMP Cost includes capital cost of 50 lakhs and recurring cost 15 lakhs.

**Table: EMP cost**

S. No	Particulars	Amount (In lakhs)	
		Capital Cost	Recurring Cost/ Annum
a)	Air Pollution /Noise pollution Control System	35	5.00
b)	Green Belt Development	08	2.00
c)	Environment Monitoring and Management	-	5.00

S. No	Particulars	Amount (In lakhs)	
		Capital Cost	Recurring Cost/ Annum
d)	Water Pollution Control System	03	1.00
e)	Occupational Health& Safety	04	2.00
	<b>Total</b>	<b>50</b>	<b>15.00</b>

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.

Considering the information furnished and the presentation made by the consultant, M/s AmplEnviron Private Limited, Hyderabad along with the project proponent, the SEAC 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) Details of spent refractions in terms of generation and permission for its disposal/selling to authorized vendors as they are hazardous.
- c) The KML and layout in the provided documents are not matching. The project proponent shall rectify the discrepancy and submit a correct and clear fresh KML file along with supporting land documents.
- d) Internal Drainage layout map.
- e) Current annual generation of hazardous wastes and its disposal procedure.
- f) The existing project cost mentioned is 24.00 Crores in Summary and 10 crores in ppt. Clarify the discrepancy with correct project cost to be submitted.
- g) Year of establishment of the plant has been mentioned as 1983. Details of plant facilities alongwith copies of Consent to Establish and Consent to Operate established after 14<sup>th</sup> Sept' 2006.
- h) Copy of land documents and Kissam of land.
- i) During presentation, it was come to know that there is no plantation in the existing plant and also no vacant space is available for plantation. The industry has to clarify how to develop greenbelt of 33% inside the plant premises.

**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.

**ITEM NO. 06**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S STERLING INDUSTRIES FOR REGULARIZATION OF RE-ROLLING MILL PLANT FOR RE-ROLLED STEEL PRODUCTS (M.S. PIPE) - 1,10,000 MTPA & GALVANIZED PIPE- 36,000 MTPA, IN COMPLIANCE TO THE MOEF&CC, NEW DELHI VIDE NO. S.O. 3250 (E) DT. 20TH JULY 2022 OVER AN AREA 5.37 ACRES AT PLOT NO. 237/412 & 238 VILLAGE BIJABAHAL, PO: KUARMUNDA DISTRICT-SUNDARGARH OF SRI NIKHIL 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 Sterling Industries for Regularization of Re-Rolling Mill Plant for Re-rolled steel products (M.S. Pipe) - 1,10,000 MTPA & Galvanized Pipe- 36,000 MTPA, in compliance to the MoEF&CC, New Delhi vid no. S.O. 3250 (E) dt. 20th July 2022 over an area 5.37 acres at Plot No. 237/412 & 238 Village Bijabahal, Po: Kuarmunda District- Sundargarh of Sri Nikhil 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. The renewal of last consent for existing unit was granted by State Pollution Control Board, Odisha vide Consent Order No 1752/RO-CTO-1291 dated 02/05/2023/ Consent Order No. 0018/SPCB/RKL(APC & WPC) which is valid up to 31.03.2024.
5. **Location and connectivity:** M/s Sterling Industries is located at Plot No. 237/412 & 238 located in Village - Bijabahal, PO – Kuarmunda, District - Sundargarh, Odisha. The nearest Railway Station is Kuarmunda Railway Station which is located at about 3.2 km in SE direction and Rourkela Airport is at a distance of approx.9.5 km in ESE direction from the project site.
6. **Raw Material :**

**Table: Raw Material for Rolling Mill (M.S Pipe)**

S.No.	Raw Material	Quantity (TPA)	Source	Mode of transport
1	Billets/Ingots	1,15,000	Open Market	Road

**Table: Raw Material required in the Galvanizing Unit for steel products (Hot plating)**

S.No.	Raw Material	Quantity (TPA)	Source	Mode of transport
1	Rolled Products (M.S. Pipe)	36000	Captive Plant	--
2.	Zinc Chloride	360	Open Market	Road

3.	Acid	1080	Open Market	Road
4.	Ammonia Chloride	360	Open Market	Road
5.	Zinc	1620	Open Market	Road
Total		39120		

**7. Manufacturing process:**

Galvanizing of steel- Pickling/cleaning of Rolling Products to remove surface oxides and impurities, Mechanical Scraping of the surface, Pre-treatment, cleaning and degreasing by special solvent like sodium hydroxide solution and followed by pickling, Galvanizing of rolled products by immersing of Rerolled product in the molten bath of Zinc followed by water quenching, Inspection of Galvanized, Dispatch to market

**8. 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 54.0 KLD, while the daily fresh water requirement is 26.0 KLD, about 17 KLD makeup water for industrial use, 5 KLD for plantation and dust suppression and 4.0 KLD for domestic purposes

**9. Waste generation:**

a) **Effluent Treatment Plant and Sewage Treatment Plant:** The treated effluent from Re-Rolling Mill is being utilized for dust suppression and ash conditioning. No effluent is being let out of the plant premises. Hence Zero effluent discharge concept is being implemented.

b) **Treatment of Waste water galvanizing unit:** A very common and simple treatment applied to galvanic wastewaters is chemical precipitation with lime. In order to reduce the volume and water content of the precipitate formed at the last stage of sedimentation, inorganic coagulants (for example, iron chloride) or polyelectrolytes are added to the wastewater. Zinc can be recovered in insoluble forms as hydroxides by using several alkaline reagents, like CaO or Ca(OH)<sub>2</sub>, Mg(OH)<sub>2</sub>, NaOH, and NH<sub>4</sub>OH. Coagulation and flocculation followed by sedimentation and filtration also employed to remove heavy metal from wastewaters. Coagulation is the destabilization of colloids by neutralizing the forces that keep them apart. Many coagulants are widely used in the conventional wastewater treatment processes such as aluminium, ferrous sulphate and ferric chloride, resulting in the effective removal of wastewater particulates and impurities by charge neutralization of particles and by enmeshment of the impurities on the formed amorphous metal hydroxide precipitates

**10. Solid waste generation and management:**

S. No	Waste	Quantity	Management
a)	Municipal Solid Waste (Kg/day) @0.2kg/person	14.4 TPA	It is being Send to Municipal corporation
b)	Mill Scale	2700 TPA	Sold to Nearby by Steels industry
c)	End Cutting	2300 TPA	Sold to Nearby by Steels industry
d)	Used Oil from DG Set	0.8 KL/annum	Disposal through actual users having valid authorization from SPCB, Odisha
e)	MS Scrap	144	Sold to Nearby by Steels industry
f)	Zinc Dross	1600	Sold to registered recyclers



g)	mill scale in pickling etc	1376	Sold to Nearby by Steels industry
h)	ETP Sludge	152 TPA	TSDF
i)	Bottom Ash	3360	Will be used in land filling

11. **Power Requirement:** Total power requirement for plants is 4.2 MW, which is sourced from State Electricity Board. A DG Set capacity of 320 KVA also provided standby.
12. **Greenbelt development plan:** Approx 0.72 Ha. of total land availability is reserved for greenbelt development plan. About 1800 Nos. (0.72 ha 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. The tree species to be selected for the plantation are pollutant tolerant, fast growing, and wind firm, deep rooted. A three-tier plantation is proposed comprising of an outer most belt of taller trees which will act as barrier, middle core acting as air cleaner and the innermost core which may be termed as absorptive layer consisting of trees which are known to be particularly tolerant to pollutants.
13. **Manpower Requirement:** There are 200 Nos. of regular manpower is working in the plant and 100 Nos. of contractual manpower is also working in the plant. Recruitment of few workers as per requirement may be there as and when required. Hence, there will be no change in the population projection of the nearest & farther most villages of the project.
14. **Project cost:** The existing project cost is 2887.61 Lakhs. EMP cost includes a capital cost of 60 lakhs and recurring cost of 20 lakhs.

Table: **EMP Cost**

S. No	Particulars	Amount (In lakhs)	
		Capital Cost	Recurring Cost/ Annum
6.	Air Pollution /Noise pollution Control System	35	5.00
7.	Green Belt Development	10	3.00
8.	Environment Monitoring and Management	-	5.00
9.	Water Pollution Control System	10	4.00
10.	Occupational Health& Safety	05	3.00
	Total	60	20.00

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

Considering the information furnished and the presentation made by the consultant, M/s AmplEnviron Private Limited, Hyderabad along with the project proponent, the SEAC recommended the following:

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

- a) The unit has been established in 2021 as reported but the proponent has not taken Environmental clearance for galvanising unit., pickling unit, Re-Rolling Mill prior to operation.

Hence it is a matter of violation. Submit documents in support of the exemption from EC of the above-mentioned units to justify why it cannot be considered as violation.

- b) Submit material balance for Zinc, ammonia and residual chlorine etc.
- c) Detail notes on management of Hydrochloric acid (HCl) i.e. plan for storage, dyke arrangement and standard operating procedures of handling of HCl and waste batteries.
- d) Details of fly/bottom ash generation and its management.
- e) Details of Spent Refractories in terms of generation and permission for its disposal/selling to authorized vendors as they are hazardous.
- f) Provision for storm water drain for runoff water.
- g) Detailed water and material balance.
- h) Details of Wastewater Treatment Facility of galvanizing unit as well as other plant facilities.
- i) Copy of land documents and KISSAM of land.
- j) During the presentation, it was come to know that there is no plantation in the existing plant and also no vacant space is available for plantation. The industry has to clarify how to develop greenbelt of 33% inside the plant premises.
- k) Details of plant facilities along with copies of Consent to Establish and Consent to Operate.
- l) Details of management of sludge generated from the treatment of wastewater of the galvanizing unit by lime.

**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) Detailed Waste Water Treatment facility available for galvanizing unit as well as other plant facilities.
- g) Vacant land available.
- h) Any other issues including local issues.

**ITEM NO. 07**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S MAA BHAGWATI RE-ROLLING MILLS PVT. LTD FOR REGULARIZATION OF RE-ROLLING MILL PLANT OF 60000 TPA (ROADS, ANGELS, FLATS, BARS & PATTI) AND GALVANIZATION UNIT OF 30000 TPA CAPACITY, IN COMPLIANCE TO THE MOEF&CC NOTIFICATION DATED 20TH JULY 2022 OVER AN AREA 2.2 ACRES (0.89 HECT.) AT VILLAGE RATAKHANDI, PO: BISRA, DIST: SUNDERGARH OF SRI RAJESH KUMAR RAJUKA - 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 Maa Bhagwati Re-Rolling Mills Pvt. Ltd for Regularization of Re-Rolling Mill Plant of 60000 TPA (Roads, Angels, Flats, Bars & Patti) and Galvanization Unit of 30000 TPA capacity, in compliance to the MoEF&CC Notification dated 20th July 2022 over an area 2.2 acres (0.89 Hect.) at Village Ratakhandi, PO: Bisra, Dist: Sundergarh of Sri Rajesh Kumar Rajuka.
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. Consent to Operate from SPCB, Odisha has been obtained for the above plant vide Consent Order No. 0560/SPCB/RKL(APC & WPC) dated 31.03.2017 for Re-Rolling Plant and Consent Order No. 0599/SPCB/RKL (APC & WPC) dated 22.06.2017 both are valid till 31.03.2027.
5. **Location and connectivity:** M/s Maa Bhagawati is located at Khata No. 38/94 (Plot No. 357/559, 358/560, 359/361) & 38/95 (Plot No. 359/563, 357/562, 359/364) in Village Ratakhandi, PO: Bisra, Dist: Sundergarh, Odisha. The geocoordinates of the project are : Latitude 22°15'0.43"N and Longitude 84°59'9.60"E. The nearest Railway Station is Bisra Railway Station which is located at about 1.1 km in ESE direction and Rourkela Airport is at a distance of approx. 17.5 km in WNW direction from the project site.
6. **Manufacturing process:**
  - a) Process involved in Re-rolling Mills are: When the rolling temperature of billet /ingot reaches 1200 degree centigrade it removes from the discharge gate by the ejector and drop down in roughing mills conveyor. Re heating furnace discharge billet/ ingot at 1100–1200-degree centigrade temperature which is rolled using passes 6 Passes. 2 passes and 1 pass in stand 1, 2 & 3rd of roughing mill respectively with the help of Y- table and turning wall. Billet/ Ingot's cross-sectional area decrease as its length is increase. Material after rolling in roughing mill reach first stand to 7th stand of intermediate mill with the help of two nos pinch roll and two nos of rotary shear after cutting of front-end rear end of the pcs. Air Cooling at cooling bed till black colour, Standard length cutting by shearing machine (Heat/lot wise and Straightening (if required) by straightening machine

- b) Process involved in galvanizing of steel are Pickling/cleaning of Rolling Products to remove surface oxides and impurities, Mechanical Scraping of the surface, Pre-treatment, cleaning and degreasing by special solvent like sodium hydroxide solution and followed by pickling, Galvanizing of rolled products by immersing of Rerolled product in the molten bath of Zinc followed by water quenching, Inspection of Galvanized and Dispatch to market.

**7. Raw materials required:**

**Table: Raw Material for Rolling Mill (M.S Pipe)**

S.No.	Raw Material	Quantity (TPA)	Source	Mode of transport
1	Billets/Ingots	63,000	Open Market	Road

**Table: Raw Material required in the Galvanizing Unit for steel Products (Cold Plating)**

S.No.	Raw Material	Quantity (TPA)	Source	Mode of transport
1	Rolled Products (Roads, Angels, Flats, Bars & Patti)	30500	Captive Plant	--
2.	Zinc	685	Open Market	Road
3.	Acid	595	Open Market	Road
4.	Lime Treatment	435	Open Market	Road
<b>Total</b>		<b>32215</b>		

- 8. Water Requirement:** Total one-time water demand is 37 KLD out of which fresh water 21 KLD will be sourced from Ground Water. NOC will be obtained from CGWA. Details are as given below:-

Item	Fresh (KLD)	Recycled (KLD)	Total Water Demand (KLD)
Industrial Use (Rolling)	5	12	17
Domestic Use	2	-	2
Plantation and Dust Suppression	4	-	4
Galvanizing	10	4	14
<b>Total</b>	<b>21</b>	<b>16</b>	<b>37</b>

- 9. Power Requirement:** The total power requirement for the existing plant is 1.5 MW. The power will be sourced from State Grid. There is 1 DG set of 200 kVA for emergency.

**10. Waste generation:**

- a) The treated effluent from Re-Rolling Mill is being utilized for dust suppression and ash conditioning. No effluent is being let out of the plant premises. Hence Zero effluent discharge concept is being implemented. All the domestic sewage is being transferred to septic tank and is being used for the green belt development. Same practise will be followed in future.
- b) A very common and simple treatment applied to galvanic wastewaters is chemical precipitation with lime. In order to reduce the volume and water content of the precipitate

formed at the last stage of sedimentation, inorganic coagulants (for example, iron chloride) or polyelectrolytes are added to the wastewater. Zinc can be recovered in insoluble forms as hydroxides by using several alkaline reagents, like CaO or Ca(OH)<sub>2</sub>, Mg(OH)<sub>2</sub>, NaOH, and NH<sub>4</sub>OH. Coagulation and flocculation followed by sedimentation and filtration also employed to remove heavy metal from wastewaters. Coagulation is the destabilization of colloids by neutralizing the forces that keep them apart. Many coagulants are widely used in the conventional wastewater treatment processes such as aluminium, ferrous sulphate and ferric chloride, resulting in the effective removal of wastewater particulates and impurities by charge neutralization of particles and by enmeshment of the impurities on the formed amorphous metal hydroxide precipitates

#### 11. Solid waste generation and management

S. No	Waste	Quantity	Management
a)	Mill Scale	1600 TPA	Sold to Nearby by Steels industry
b)	End Cutting	1400 TPA	Sold to Nearby by Steels industry
c)	Used Oil from DG Set	0.1 KL/annum	Reused in industry for machine cleaning
d)	Acid neutralization lime sludge generated	1217 TPA	Sold to registered recyclers
e)	MS Scrap	855 TPA	Sold to Nearby by Steels industry
f)	Mill Scale (Pickling)	330 TPA	Sold to Nearby by Steels industry
g)	ETP Sludge	0.5 TPA	TSDF

**12. Greenbelt development plan:** Approx. 0.293Ha. of total land availability is reserved for greenbelt development plan. About 750 Nos. (0.293Ha x 2500 plant/ha) Plants will be maintained. Approx. 200 Nos. of plants has been already planted at site. 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. The tree species to be selected for the plantation are pollutant tolerant, fast growing, and wind firm, deep rooted. A three-tier plantation is proposed comprising of an outer most belt of taller trees which will act as barrier, middle core acting as air cleaner and the innermost core which may be termed as absorptive layer consisting of trees which are known to be particularly tolerant to pollutants.

**13. Manpower Requirement:** The employment is around 300 Persons and contractual labour-50 Nos. In indirect employment, there would be development of externalities viz. local logistics, warehousing etc. as supporting services.

**14. Total Project cost:** The existing project cost is estimated to be 8.95 Crores. Proposed EMP Cost is INR 40.00 Lakhs as Capital Cost & INR 15.00 Lakhs as Recurring Cost

S. No	Particulars	Amount (In lakhs)	
		Capital Cost	Recurring Cost/ Annum
a)	Air Pollution /Noise pollution Control System	25	5.00
b)	Green Belt Development	08	2.00

S. No	Particulars	Amount (In lakhs)	
		Capital Cost	Recurring Cost/ Annum
c)	Environment Monitoring and Management	-	5.00
d)	Water Pollution Control System	03	1.00
e)	Occupational Health& Safety	04	2.00
	<b>Total</b>	<b>40</b>	<b>15.00</b>

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

Considering the information furnished and the presentation made by the consultant, M/s AmplEnviron Private Limited, Hyderabad along with the project proponent, the SEAC recommended the following:

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

- a) Copy of all consent certificates (CTE, CTO etc.)
- b) Copy of authorization for Hazardous waste disposal to RAMKY.
- c) As reported, the run off rain water from the plant is disposed to the back fields i.e. to non-industrial areas. The proponent shall have a provision for storm water drainage system and management to collect run-off water from the whole plant.
- d) Land documents along with kisam of land.
- e) Details of HCl storage and mitigation measures adopted for acid leakage.
- f) Note on how ETP treated water is to be reused in rolling mill.
- g) Details of fly/bottom ash generation and its management.
- h) Details of spent refractions in terms of generation and permission for its disposal/selling to authorized vendors as they are hazardous.
- i) Details of Wastewater Treatment Facility of galvanizing unit as well as other plant facilities
- j) During the presentation, it was come to know that there is no plantation in the existing plant and also no vacant space is available for plantation. The industry has to clarify how to develop greenbelt of 33% inside the plant premises.

**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) Detailed Wastewater Treatment facility available for galvanizing unit as well as other plant facilities.
- g) Vacant land available.
- h) Any other issues including local issues.

**ITEM NO. 08**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR B. SINGHPUR DECORATIVE STONE MINE OVER 2.86 ACRES OR 1.157 HA IN VILLAGE B. SINGPUR NO-52 UNDER BORIGUMMA TAHASIL OF KORAPUT DISTRICT OF SRI SATYA PRIYA JAYASINGH - EC**

1. This proposal is for Environmental Clearance for B. Singhpur Decorative Stone mine over 2.86 Acres or 1.157 Ha in village B. Singpur No-52 under Borigumma Tahasil of Koraput district of Sri Satya Priya Jayasingh.
2. **Category:** As per EIA Notification, 2006 and subsequent amendments the project falls under Category B2 under Schedule of item of 1(a) - Mining of Minerals.
3. The applied Mining lease area was granted by Department of Steel & Mines, Govt. of Odisha, Bhubaneswar vide Letter No 8593 dated 26.10.2021 in favour of M/s A.S Mines & Minerals for 30 years.
4. The Mining Plan along with PMCP was approved by Directorate of Mines & Geology, Steel & Mines Department, Govt. of Odisha, Bhubaneswar vide letter no. MXXII - (b) -21 / 2021 27/DM&G on dated 13.10.2022.
5. The proposed mine is in the District Survey Report of Koraput District prepared for Decorative Stones, List of Specified minor mineral, Page 43 of SL. No. 29. In the said DSR, the mines was in favour of Sri Ajit Sadangi which has been transferred presently to M/s A.S Mines & Minerals.
6. As per Cluster Certificate issued by The Tahasildar, Borigumma Tahasil, there is no other mineral lease located within the 500 meters from the periphery of the proposed project. This is a new mine.
7. **Location and connectivity:** The project is located in village B. Singhpur No-52, Khata no.115, plot no. 96 and Kissam of land is Taila of Abada Ajogya Anabadi over an area of 1.157 Ha. or 2.86 Acre in village B. Singhpur No-52 under Borigumma Tahasil, Koraput District, Odisha. The area is bounded by latitude 19°03'19.2" N to 19°03'24.1" N & longitude 82°40'23.2" E to 82°40'27.0 E" bearing Toposheet no E44 E12 (65 I/12). Nearest railway station is Jeypore Railway Station at distance of 54 Km. The lease area can be approached from NH 26 & SH 46 at a distance of 26 Km & 12 Km. Telengi River at a distance of 2Km. Nearest Airport is Jeypore Airport which is at a distance of 24 Km.
8. **Total Reserves:** As estimated, Geological Reserve and Mineable Reserve of the proposed project is 17,059 Cum and 8,535 Cum respectively.
9. **Mining method:** Opencast semi-mechanized method will be adopted using machineries such as Excavator, Line offset, compressor, jack-hammer, wire ropes and drill rod etc. Volume of

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Asst. Environmental Scientist

Decorative Stone is 508 (cum)/annum and total production in 5years is 2, 540 cum. The depth of the hole is proposed to be 2 m and 3 m and diameter will be 32mm.

Production	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	Total
Total volume of rock Zone (m <sup>3</sup> )	2540	2540	2540	2540	2540	12700
Volume of blocks 20 %(m <sup>3</sup> )	508	508	508	508	508	2540
Volume of Khanda 10% (m <sup>3</sup> )	254	254	254	254	254	1270
Volume of Waste70%(m <sup>3</sup> )	1778	1778	1778	1778	1778	8890
Saleable Block: Waste Ratio	1:0.2	1:0.2	1:0.2	1:0.2	1:0.2	---

10. **Waste generation and management:** During the proposed plan period, a total of 8,890 m<sup>3</sup> of waste will be generated due to course of mining. However about 40% (3556 m<sup>3</sup>) of the generated waste will be utilized for maintenance and construction of the haul road, approach and existing roads in the surrounding areas periodically. Remaining 5,334 m<sup>3</sup> of waste will be dumped in the proposed temporary waste dump in the earmarked site over 1,226.82 m<sup>2</sup> area with an average height of 5 m having five terraces.
11. **Water requirement:** At the rate of 20 litres per head, 600 litres of potable water will be consumed for drinking / day & other purpose. About 500 litre per day of water will be required for plantation.
12. **Greenbelt:** The program of afforestation is to plant 380 saplings in the safety zone over an area of 3100 sq.m.

Year	Area to be planted (m <sup>2</sup> )	No. of Saplings	Type of species to be Planted	Location
1 <sup>st</sup> Year	2375	380	Amla, Neem, Mango, Gamhari, Kasi, Bahada, Jamun, and Bamboo	Along the Safety Zone

13. **Manpower requirement:** A total of 20 nos. of people will be required in the mine for the proposed project.
14. **Project cost:** The estimated Project cost of the proposed project is 20 Lakhs, EMP Capital cost of the project is 9.0 Lakh mine and recurring cost is 5.8 lakh mine. CSR cost includes an expenditure of 4 lakhs.

**Table: CSR cost**

S. No.	Particulars	Amt. in Lakh of Rs.
1	Repairing of Roads from lease area to village	2.00
2	Repair & Maintenance of tube wells for Drinking Water Provision	1.00
3	Financial Assistance to local school	0.5
4	Gross Plantation in waste land of the village	0.5
	<b>Grand Total</b>	<b>4.0</b>

15. **Environment Consultant:** The Environment M/s Kalyani Laboratories Private Limited, Bhubaneswar along with the proponent made a presentation on the proposal before the Committee.

Considering the information furnished and the presentation made by the consultant, M/s Kalyani Laboratories Private Limited, Bhubaneswar along with the project proponent, the SEAC recommended the following:

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Asst. Environmental Scientist



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

- a) There is no approach road/transportation road connecting to the quarry site as shown in the KML file. The project proponent has to purchase land from private owners for this purpose as mentioned during presentation. Hence, submit copies of land agreement made with private owners for the transportation road.
- b) The proposed quarry must be included and approved in DSR before grant of EC.
- c) Explore the possibility of usage of waste for manufacturing of sand. The proponent has to submit supporting documents in this regards before consideration of Environmental Clearance.
- d) Note on Dust management and waste management.

**ITEM NO. 09**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE OF CONSTRUCTION OF "B+S+9 STORED (BLOCK A & BLOCK B) & G+2 RESIDENTIAL MULTI-STOREYED APARTMENT" BY ORISSA STATE HOUSING BOARD, BHUBANESWAR OVER AN BUILT-UP AREA 45614.04 SQ.M LOCATED AT DUMDUMA (PH - VI), BHUBANESWAR OF SRI NARAYN MAJHI - EC. (File No. SIA/OR/INFRA2/408006/2022)**

The Committee recommended to delist the proposal as they have submitted revised proposal for Environmental Clearance.



**MEMBER SECRETARY, SEAC**