

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 27<sup>TH</sup> NOVEMBER, 2019**

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The SEAC met on 27<sup>th</sup> November, 2019 at 11:00 AM in the Conference Hall of Odisha State Pollution Control Board, Bhubaneswar under the Chairmanship of Sri. B. P. Singh. The following members were present in the meeting.

1. Sri. B. P. Singh	-	Chairman
2. Dr. D. Swain	-	Member
3. Prof. (Dr.) P.K. Mohanty	-	Member
4. Sri. J. K. Mahapatra	-	Member
5. Sri. K. R. Acharya	-	Member
6. Prof.(Dr.) B.K. Satpathy	-	Member
7. Dr. K.C.S Panigrahi	-	Member
8. Dr. Sailabala Padhi	-	Member

The agenda-wise proceedings and recommendations of the committee are detailed below:

**ITEM NO. 1**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR M/S CHETTINAD CEMENT CORPORATION PVT. LTD. FOR PROPOSED 2X1.0 MTPA CEMENT GRINDING UNIT AT KALINGANAGAR INDUSTRIAL COMPLEX, TEHSIL: DANGADI, DISTRICT: JAJPUR OF MR. A. ANNADURAI. (EC)**

1. The proposal is for Environmental Clearance for M/s. Chettinad Cement Corporation Pvt. Ltd. for proposed 2x1.0 MTPA Cement Grinding Unit for production of PPC, PSC, OPC & GGBS cement, over an area of 83.0 Ac. situated at- Kalinganagar Industrial Complex, Tahasil - Dangadi, District- Jajpur of Mr. A. Annadurai.
2. The project falls under Category "B", Project or Activity 3 (b) as per schedule of EIA Notification dated 14<sup>th</sup> Sep, 2006, as amended from time to time.
3. The total project area is 83.0 acres. About 27 acre (33%) of the total project area will be covered under green belt & plantation.
4. The coordinates of the area is Latitude - 20°56'9.54" N and Longitude - 86°3'14.12" E. Nearest town is Duburi located at a distance of 7.0 Km from the project site. National Highway (NH-200) is at a distance of 8.0 Km from the project site. Nearest village is Jakhapura Village-1.0 Km.
5. No National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger / Elephant Reserve, Wildlife Corridor etc. falls within 10 km radius of the plant site. Total Cost of the proposed project will be ₹ 120 Crores. Capital cost for environmental protection measures will be ₹ 290.00 lakhs and Recurring cost would be ₹ 30.0 Lakhs.
6. Total power requirement for the proposed project will be 10 MVA which will be sourced from Odisha Power Transmission Corporation Limited. Total nos. of employees will be 185.
7. Total water requirement of proposed project is 100 KLD and sourced from IDCO water supply from nearby Brahmani River.
8. Raw materials required for the proposed project are Clinker, Slag, Gypsum & Flyash. Clinker is proposed to be sourced from CCCPL's units established at Ariyalur, Ariyalur District, Tamil Nadu. Fly ash from nearby Thermal power plants. Gypsum will be

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**Secretary, SEAC**


procured from Pardeep Phosphate / IFFCO (110 Kms.) and slag would be procured from Jindal Stainless Limited, Tata Steel, Neelachal Ispat Ltd. Kalinganagar. Transportation of raw material and product (cement) would be done by road and railway.

9. Cooling Tower blow down will be re-circulated through cooling and treatment. The entire treated waste water will be recycled for various purposes inside the plant. waste water generated from plant will be treated in the existing STP The treated water from STP will be used for dust suppression & green belt development. Zero liquid discharge concept from plant operation shall be adopted
10. High efficient bag filters will be installed to maintain particulate matter emissions within permissible limit. Domestic effluent will be treated in STP and treated water will be used for plantation.
11. Dust collected from various pollution control equipment will be recycled back into the process. STP Sludge will be utilized as manure for plantation. Used oil will be sold to re-processors.
12. Earmuffs will be provided to all operators and employees working near the machinery to control noise pollution.
13. Drainage of the study area shows mainly dendritic pattern and consist of first, second and third order streams. Structurally controlled sub-parallel drainage can also be noted in the area. Overall drainage flow of the study area is from north to south and is mainly controlled by Brahmani River which flows from west to east at a distance of 5.3 Km in south side of the project site. Here, Brahmani River bifurcates into two streams- One stream as Kharsua River, which after flowing, continues to flow in the SW direction and Second stream continues as Brahmani River in south direction.
14. Streams such as Gonda nala, Ghagia nala, Kabari nala, Dhenkasai nala and Jhurjhuri nala flowing from northern part of the study area finally merge into the Brahmani River.
15. Within plant roof top rainwater harvesting shall be implemented. Harvested rain water will be recharged through a recharge pond (12m x 10m x 6m) to increase the ground water level of the area as per guidelines prescribed by Central Ground Water Board shall be taken into consideration for designing of rain water harvesting system. A part of rain water shall be preserved for plant use during lean season.
16. Baseline data collected from March'2019 to May'2019 (Pre - monsoon) as per MoEF&CC, Govt. of India Office Memorandum dated 29.08.2017.
17. ToR was issued for EIA study by the SEAC vide letter no. 1092/SEAC-173, dated 14.12.2018. Public Hearing was conducted on 06<sup>th</sup> March 2019.
18. The consultant **M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar** along with the proponent have made a detailed presentation on the EIA/EMP report.

Considering the information / documents furnished by the proponent and presentation made by the consultant on behalf of the project proponent, the SEAC decided to take decision on the proposal after the proponent submits the following information/ documents:

1. Proposed Pollution Control Measures.
2. Certified Copy of agreement that land has been transferred from IDCO to project proponent name.

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Secretary, SEAC

3. Supporting documents regarding land schedule and kissam of land.
4. Material Balance for each products (Input and Output Balance) PPC, PSC, OPC & GGBS.
5. Use of phospho-gypsum being generated from fertilizer plants in Odisha may be explored in reference to quality requirement of the proponent and cost benefit analysis as well.
6. Submission of detailed Plant layout showing storage yards of raw materials, coal storage unit, ash generated from coal, products along with garland drains and retaining walls.
7. Permission Copy from IDCO that water will be supplied for proposed plant use.
8. Submission of water balance to be used in this project in detail both monsoon and non-monsoon period
9. Details of parking provision for incoming and outgoing vehicles in new plant, inside and outside the plant.
10. Details of quantity of materials to be transported by rail and road.
11. Details of green belt area and list of plant species selected should be cyclone resistant and high green leaf area.
12. Drainage map showing location of 5 nallahs with distance from project site.
13. ToR Point 4.xi to be complied in detail.
14. Repeat the study of inversion of temperature in winter season covering neighbouring industries along with the proposed plant and mitigative measures if any. Sampling locations should include residential areas. Inversion study to be done and report submitted from any Govt. Institution of national repute.
15. Compliance to issues raised in public hearing conducted on 06 March 2019.
16. Repeat the Iron content analysis in surface water, and if it is high then measures taken for reduction of it.
17. Ground water to be monitored once again and ground water analysis report to be submitted.
18. Traffic Density Study to be carried out by Operational Research (OR) expert and report to be submitted.
19. Plan for biodiversity assessment.
20. Separate the budget of Corporate Environment Responsibility and Environment Management and give details of each.
21. Identify the CSR AND CER activities to be done in the proposed project.
22. Specific Occupational health hazard study and check-ups to be done and budget allotted under it. Detail plan to be submitted.
23. No. of water sprinklers and bag filters to be used.
24. Percentage of Solar/ renewable energy used in the proposed project and detailed plan.
25. Details of rainwater harvesting proposed in the plant and amount compensated towards water requirement/recharging as well.
26. Detailed Carbon balance / budget should be compiled.

## ITEM NO. 2

### **PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PROPOSED CONSTRUCTION OF B+G+6 MULTISTORIED RESIDENTIAL APARTMENT BUILDING LOCATED AT GHATIKIA, DIST - BHUBANESWAR, STATE-ODISHA WITH TOTAL BUILT UP AREA – 24273.99 SQM OF M/S. ALTRADE CONSTRUCTION PVT LTD (EC)**

1. This is a proposal for Environmental Clearance for construction of B+G+6 Multistoried apartment by Altrade Construction Pvt. Ltd., Bhubaneswar over an area of 1.80 acres Ghatikia at Bhubaneswar of M/s Altrade Construction Pvt. Ltd. with total built-up area of 24273.99 m<sup>2</sup> (EC).
2. The project area of M/s Altrade Constructions Pvt. Ltd. is 1.8 acres bearing plot no- 4363, 4365/9551 & 4366 and Khata No-1988/9 in village - Ghatikia, P.S- Chandaka, Bhubaneswar. The area is located in Survey of India Toposheet No. 73H/15. The project site is connected by 18.3 m wide road connected to Ghatikia main road. The Geographical co-ordinate of the project site is: Latitude – 20°16'12.08"N & Longitude - 85°46'35.52"E. The project site is well connected with National Highway NH-16 at a distance of approx 2.88 Km.
3. The project got approval from Bhubaneswar Municipality Corporation vide letter no. 0749/CSC, dated 22.02.2017 for Construction of "B+G+6 Multi storied residential apartment, plot no. 4364, 4365/9551 & 4366, Khata No. 1988/9 Mz. Ghatikia, P.S. Chandaka, Bhubaneswar.
4. The Building Details Of The Project:

<b>Particular</b>	<b>Proposed</b>
Project Name	Proposed Construction of B+G+6 Multistoried Residential Building
Plot Area	7284.34 sqm (1.8 Acres)
Ground Coverage	2643.85 sqm (36.29 %)
FAR (Floor Area Ratio)	2.23
Built up Area	24273.99 sqm
Maximum Height	20.95 m
Basement Parking Area	5478.89 sqm
Total Parking Area	5478.89 sqm
Green Belt Area	1717.19 sqm (23.57 %)
Maximum No. of Floor	B+G+6
Power/Electricity Requirement & Sources	Total - 958 KW Solar - 10.04 KW CESU - 947.96 KW
No. of DG sets	1x380 KVA
Water requirement & Sources	62.0 KLD (Fresh)
Sewage Treatment & Disposal	STP Capacity 100 KLD
Estimated Population-Residential, Commercial, Floating/visitors	Residential Apartment - 108 EWS Apartment - 42 Estimate Population - 666

## 5. REQUIREMENT FOR THE PROJECT:

### (i) Power requirement:

The daily power requirement for the proposed complex is preliminarily assessed as **958 KW** (Solar System- 10.04 KW & CESU - 947.96 KW). In order to meet emergency power requirements during the grid failure, there is provision of 1 no. of DG set having 380 KVA capacities for power back up in the Residential Building Project. For energy conservation, there will be 75 nos. of Solar Lighting poles (@72 Watt) has been proposed for Street & common area solar lighting, so Energy conservation by using Solar Street Lighting =  $75 \times 72 = 5400$  watt = 5.4 KW  
Energy conservation by using Solar lighting for common area = 4.64 KW  
Total Energy Conservation =  $(4.64+5.4)$  KW = 10.04 KW  
Total Energy saving =  $10.04/958 = 0.0104 \times 100 = 1.04 \%$

### (ii) Water requirement:

Fresh make up of 62.0 m<sup>3</sup>/day will be required for the project which will be sourced from Ground water. Waste water of 79.0 KLD will be treated in a STP of 1080 KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the Municipal Drain.  
Rain Water will be harvested through 10 no. of recharging pits.

### (iii) Fire fighting Installations:

Fire fighting system will be installed as per recommendation of the Fire fighting Officer, Odisha and as per the guideline of NBC (part-4).

### (iv) Green Belt Development:

Green belt will be developed over an area of 1717.19 sqm which is 23.57 % of the plot area; by using the local species like Radhachuda, Nageswar, Akash Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kaniara, Tagar, Hena, etc.

### (v) Solid Waste Management:

From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/person/day, which will be about 299.7 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate colored bins. Proper waste management practices will be adopted during the collection, storage and disposal of the generated solid waste and construction and demolition waste.

Solid waste from sweeping and Dry Garbage containing non biodegradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved recyclers.

Around 36.0 kg/day of STP sludge will be generated. As sewage sludge contains many elements essential to plant life, such as nitrogen, phosphorous, potassium, and in addition, at least traces of minor nutrients which are considered more or less indispensable for plant growth, such as boron, calcium, copper, iron, magnesium, manganese, sulphur and zinc. The sludge humus, besides furnishing plant food, benefits the soil by increasing the water holding capacity, thus making possible the working of heavy soils into satisfactory seed beds. Sludge will be used as manure in landscaping.

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	666 @ 0.45 kg/day	299.7
2.	Floating Population	67 @ 0.15 kg/day	10.05
3.	STP sludge		36.0
<b>TOTAL SOLID WASTE GENERATED</b>			<b>345.75 kg/day</b>

6. **Estimated Project cost:**

Total Capital Cost = ₹ 15.73 Crores

Environment Management Cost = ₹ 1.48 Lakhs

7. The Environmental Clearance for the proposal was rejected earlier and communicated to the proponent as no feasible waste water discharge system do exist at the proposed site.
8. Now the project proponent has submitted fresh EC proposal with revised plan for discharge of waste water at the proposed site.
9. The consultant M/s **Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, Bhubaneswar** along with the proponent have made a detailed presentation on the proposal.

Considering the information / documents furnished by the proponent and presentation made by the consultant on behalf of the project proponent, the SEAC decided to take decision on the proposal after the proponent submits the following information/ documents followed by visit of Sub-Committee of SEAC to the proposed site.

1. Proposal to increase the percentage of Solar/ renewable energy to 5% with detailed plan.
2. Undertaking by the Sewerage Board to complete 250 mm dia sewer line within span of 3 years which is proposed to be laid along with Paikarapur-Naka Gate Square road and they will connect the said sewer line to the drain of the proposed project.
3. Discharge of treated water to municipality drain should be reduced by increasing usage of the treated water in green belt plantation and car washing. Detailed proposal to this effect to be submitted.
4. Provision for electric point at each and every parking location for e- vehicle charging etc. shall be provided. An undertaking to this effect to be submitted.
5. Detailed water balance.

**ITEM NO. 03**


**PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PROPOSED PRODUCTION OF STEEL STRUCTURE / ROD 2,00,000 TPA & IRON BILLET – 2,00,000 TPA, AT-SARUA INDUSTRIAL ESTATE, KHORDHA OF M/S. NEW LAXMI INDUSTRIES PVT. LTD OF SRI PAWAN KUMAR GUPTA (TOR).**


The project proponent didn't attend the meeting. The proponent had also not attended the earlier meeting of the SEAC held on 25.09.2019. The Committee decided to return the proposal to the SEIAA, Odisha.

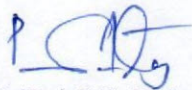
**ITEM NO. 04**

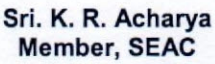
**PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PROPOSED PRODUCTION OF STEEL STRUCTURE / ROD 2,00,000 TPA & IRON BILLET – 2,00,000 TPA, AT-SARUA INDUSTRIAL ESTATE, KHORDHA OF M/S. NEW LAXMI STEEL AND POWER PVT. LTD. OF SRI PAWAN KUMAR GUPTA (TOR).**

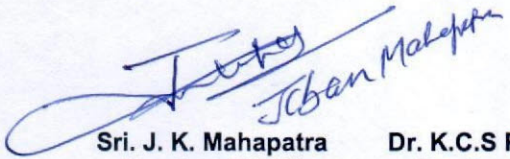
The project proponent didn't attend the meeting. The proponent had also not attended the earlier meeting of the SEAC held on 25.09.2019. The Committee decided to return the proposal to the SEIAA, Odisha.

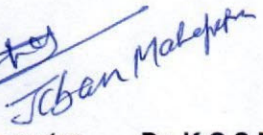
  
Sri. B. P. Singh  
Chairman, SEAC

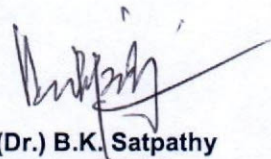
  
Dr. D. Swain  
Member, SEAC

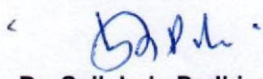
  
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Dr. K.C.S Panigrahi  
Member, SEAC

  
Prof.(Dr.) B.K. Satpathy  
Member, SEAC

  
Dr. Sailabala Padhi  
Member, SEAC

Approved

  
Chairman, SEAC