

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 28TH FEBRUARY 2024**

The SEAC met on 28th February 2024 at 10:30 AM in the Conference Hall of Odisha State Pollution Control Board, Bhubaneswar under Chairmanship of Sri Shashi Paul. The following members were present in the meeting.

- | | | |
|------------------------------|---|---------------------|
| 1. Sri Shashi Paul | - | Chairman |
| 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. Er. Fakir Mohan Panigrahi | - | Member |
| 7. Prof. (Dr.) B.K. Satpathy | - | Member |
| 8. Er. Kumuda Ranjan Acharya | - | Member |
| 9. Shri Jayant Kumar Das | - | Member (through VC) |
| 10. Dr. Ashok Kumar Sahu | - | Member (through VC) |
| 11. Dr. K. C. S Panigrahi | - | Member (through VC) |

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

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S MAYFAIR HOTELS & RESORTS LIMITED FOR PROPOSED CONSTRUCTION OF (B+G+3) BLOCK-A & SINGLE STORIED BLOCK-B HOTEL BUILDING OF MAYFAIR BAY RESORT, PARADEEP, A UNIT OF M/S MAYFAIR HOTELS & RESORT LIMITED LOCATED AT PLOT NO.- 47(P), 56(P), KHATA NO.-01, MOUZA - NUASANDHAKUDA, DIST- JAGATSINGHPUR OF SRI BIJU JOHN - EC

1. This proposal is for Environmental Clearance of M/s Mayfair Hotels & Resorts Limited for Proposed Construction of (B+G+3) Block-A & Single Storied Block-B Hotel Building of Mayfair Bay Resort, Paradeep, a unit of M/s MAYFAIR Hotels & Resort Limited located at Plot No.- 47(P), 56(P), Khata No.-01, Mouza - Nuasandhakuda, Dist - Jagatsinghpur of Sri Biju John.
2. **Category:** As per the EIA notification 2006 and its subsequent amendments, proposed project falls in category B under schedule of Item 8(a): Building & Construction Projects.
3. M/s Mayfair Hotels & Resorts Limited has proposed for development of a Three Star Hotel with 134 Rooms with all modern facilities.
4. The existing property of Panthanivas, Paradeep needs to be demolished so that the infrastructure of the proposed hotel can be established.
5. **Location and Connectivity** – The proposed Mayfair Bay Resorts is located at Plot No.- 47(P), 56(P), Khata No.- 01, Mouza- Nuashandhakuda, Tahasil - Kujang, Dist- Jagatsinghpur, Odisha. The Geographical co-ordinate of the project site is: Latitude - 20° 15' 36.097" N & Longitude - 86° 39' 54.851" E. The location of the project area can be seen in Survey of India Open Series No. F45U11 & F45U12. The project site is well

connected with Paradeep-Chandikhol Road i.e. National Highway-53 which is 0.8 km from the proposed project site. The nearest railway station is Paradeep Railway Station at a distance of 5.8 km from project site. The nearest Airport is Biju Patnaik International Airport Bhubaneswar, which is approximately 90.0 km from the site.

6. The project site is in CRZ-II area and the site is coming under Paradeep Development Authority (PDA)
7. The total plot area is 12140.0 sq.mt./3.0 Ac./1.21 Ha. with total built-up area 28414.75 sq.mt.
8. The Building Area Details of the Project is:

Particular	Proposed
Plot Area	12140 sqm (3 Acres)
Ground Coverage	7064.78 sqm (58 %)
Total Built up Area	28414.75 sqm
Total FAR Area	19009.61 sqm
Maximum Height	14.99 meter
Parking Area	5956.08 sqm
Green Belt Area	2428.0 sqm (20%)
Power/Electricity Requirement & Sources	500.0 KVA Source: PPT Power Supply
DG sets	500 KVA
Fresh Water requirement & Sources	110.0 KLD Source: PHD Supply
Sewage Treatment & Disposal	STP Capacity 100 KLD
Total No. of Room	138.0 Nos.
Solid Waste Generation	155.2 kg/day

9. **Water Requirement and waste water management:** Fresh make up of 112.0 m³/day will be required for the project which will be sourced from PHED Supply Water. Total waste water generated from the hotel and Restuarant is about 109.6 KLD which will be treated in STP of Capacity 120 KLD. The PP has proposed zero discharge in Non Monsoon period and 60KLD of treated waste water in Monsoon period will be discharged to nearby drain.

Sl. No.	Description	Total Population	Per Capita Consumption (ltr/day)		Water Requirement (KLD)		
			Fresh	Flushing	Domestic	Flushing	Total
1.	Hotel (138 nos. Room)	276 nos.	Fresh (260)	Flushing (60)	71.8	16.5	88.3
2.	Staff	175 Nos.	Fresh (25)	Flushing (20)	4.4	3.5	7.9
3.	Kitchen & Laundry	--	--	--	35.7	--	35.7
Total					111.9≈ 112	20.0	131.9≈ 132.0

Domestic Water Requirement	112.0 KLD
Fresh (80% of domestic water required)	89.6 KLD
Flushing Water Requirement	20.0 KLD
Flushing (100% of flushing water required)	20.0 KLD
Waste Water Generated (80% fresh + 100% flushing)	89.6+20.0 = 109.6 KLD
STP Capacity	120.0 KLD
STP Loss (5%)	5.5 KLD
Total Recycled Water	104.1 KLD

10. **Power Requirement:** Total Power requirement of the proposed building is 500.0 KVA, Source is PPT Power Supply, 1x500 KVA DG Sets is provided. Total 25 KVA Solar Power Generation which is 5.0% of total power required in project.
11. **Rainwater Harvesting:** Total 307.0 cum Rainwater is harvested through 08 nos. of recharge pits.
12. **Parking Requirement:** Total parking area provided is 5956.08 Sq.mt. and total 196 nos. of ECS and location of parking area is Basement & Open area.

Parking Area Provided			
Open Parking			1108.61 sqm
Basement Parking			4847.47 sqm
Total Parking	--	--	5956.08 sqm
Equivalent Car Space Provided			
	Area(sqm)	Area/ECS	

Open Parking	1108.61	25	44 ECS
Basement Parking	4847.47	32	152 ECS
Total Parking Provided			196 ECS

13. **Firefighting Installations:** Fire Fighting will be provided as per NBC Norms.
14. **Green Belt Development:** Greenbelt is developed over an area of 2428.0 sqm which is 20.0% of the total plot area. Total 154 nos. of plants to be planted and 3 tier plantations.
15. **Solid Waste Management:** From the hotel complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @0.40 kg/person/day, which will be about 110.4 kg/day. The generated solid waste from the hotel 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 Generation

Sl. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Hotel Population	276 @ 0.40 kg/day	110.4
2.	Floating Population	175 @ 0.15 kg/day	26.3
3.	STP Sludge		18.5
TOTAL SOLID WASTE GENERATED			155.2 kg/day

16. **Project cost:** The estimated project cost is 78.0 Crores and cost for EMP is 1.45 Crores.
17. **Environment Consultant:** The Environment consultant **M/s Centre for Envotech & Management Consultancy 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 Centre for Envotech & Management Consultancy 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:

- i) Land documents with kism of land and ROR.
- ii) Permission from PHD section of Paradeep Port for water and electricity.
- iii) Permission for drainage discharge/ discharge of excess water from concerned authority along with drainage layout.
- iv) Difference between bottom reduced level and rainwater harvesting pits, basement reduced level and ground water reduced level.
- v) Details of Solid Waste Management and disposal practice.
- vi) Copy of recommendation of CRZ Authority.

- vii) The PP shall augment the solar energy up to 25% and include provision for roof top solar arrangements.
- viii) Traffic study report vetted by institute of repute.
- ix) Plan for disaster management in case of cyclone as it is a cyclone prone area.
- x) Measures should be taken for lightening and window panes should be adequately designed for cyclone.

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

- i) Status of demolition of existing hotel building of Pantha-nivas.
- ii) Adequacy of the land available for setting of the proposed project.
- iii) Construction activities if any carried out for the proposed project.
- iv) Drainage network at the site.
- v) Discharge point for discharge of treated waste water and distance of the discharge point from the project site.
- vi) Road connectivity to the project site.
- i) Any other issues including local issues.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S RUNGTA SONS PRIVATE LIMITED FOR SANINDPUR AND BAUXITE MINES FOR PRODUCTION OF IRON ORE FROM 16.50 MILLION TPA (15.0 MILLION TPA ROM +DRY CRUSHING AND SCREENING OF LOW GRADE ORE FROM OLD STACKS & DUMPS OF 1.50 MILLION TPA) TO TOTAL EXCAVATION 26.827 MILLION TPA (ROM IRON ORE: 20.85 MILLION TPA + DRY CRUSHING & SCREENING OF 2.085 MILLION TPA OF LOW GRADE IRON ORE FROM OLD STACKS & DUMP + WASTE 3.892 MILLION TPA) OVER AN AREA OF 147. 10HA. LOCATED IN VILLAGES SANINDPUR & ORAGHAT IN SUNDERGARH DISTRICT OF SRI HIRAK MAZUMDER - EC

1. This proposal is for Environmental Clearance of M/s Rungta Sons Private Limited for Sanindpur and Bauxite mines production of Iron ore from 16.50 million TPA (15.0 million TPA ROM +dry crushing and screening of low grade ore from old stacks & dumps of 1.50 million TPA) to total excavation 26.827 Million TPA (ROM Iron Ore: 20.85 million TPA + dry crushing & Screening of 2.085 million TPA of low grade Iron ore from old stacks & dump + Waste 3.892 million TPA) over an area of 147. 10 ha. located in villages Sanindpur & Oraghat in Sundergarh district of Sri Hirak Mazumder under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022.
2. **Category:** As per EIA Notification 2006 and subsequent amendments, the proposed project falls under Category B in Schedule item 1(a) - Mining of Minerals.
3. Total lease area of Sanindpur Iron and Bauxite Mine is 147.10 Ha, out of which 126.324 Ha is forest land and 20.776 Ha. is non-forest land. The Stage-II forest clearance has been obtained in three phases. In first phase, 52.742 Ha. forest land has been granted FC vide letter No.8-135/ 2003-FC dated 19.06.2006. In second phase, 15.393 ha. forest land has been granted FC vide letter No.8-135/ 2003-FC

(vol.) dated 24.10.2013. In the 3rd phase, the balance 58.189 ha. forest land has been accorded Stage-II forest clearance vide letter No.8-135/2003-FC (VOL. I) dated 26.11.2020.

4. The mining lease was granted in favour of the lessee and executed for 20 years w.e.f. 06/09/1985 to 05/09/2005. In pursuance to section 8-A (6) of MMDR Amendment Act, 2015, the mining lease period has been extended up to 05.09.2035 by execution of a Supplementary Lease Deed on 14.07.2016, over an area of 147.100 hectare.
5. Approval of modification of review of Mining Plan with progressive mine closure plan for the proposed production has been approved by the Indian Bureau of Mines vide letter no. MCDR-MiFL0FE/45/2023-BBS-IBM-RO-BBS dated 14.02.2024.
6. Environmental Clearance has been granted to the existing project by SEIAA vide letter No. letter No. EC23B001OR130718, File No. 439726/770-MINB1/09-2023 dated 27.10.2023 for Total Handling of 19.3 MTPA [(production of 16.50 million TPA (15.0 million TPA ROM +dry crushing and screening of low grade ore from old stacks & dumps of 1.50 million TPA)+ 2.8 MTPA waste]including wet beneficiation plant of throughput capacity of 1.44 MTPA granted earlier. The Present consent to operate was granted on 02.11.2023 and is valid up to 31.03.2025.
7. Surface water withdrawal permission for 1178 KLD has been renewed on 16.08.2023 which is valid up to 18.02.2026 allocation for 1087 KLD of surface water has been approved. The balance water requirement will be met from rain water collected in the mine pit. The PP has already received NOC from Central Ground Water Authority for withdrawal of 250 KLD ground water which is valid up to 17.03.2025.
8. **Project details:** The proposed expansion will be carried out in two phases of increase of 19.5% in each phase. Thus the expansion in 1st phase (19.5% increase) will be total handling of 23.0635 MTPA [(ROM: 17.925 MTPA + low grade ore from old stack/dump: 1.7925 MTPA) + Waste: 3.346 MTPA] and thereafter in 2nd phase the expansion in total handling will be 26.827 MTPA (ROM + low grade ore from old stack/dump: 22.935 + waste: 3.892 MTPA) under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022.

Particulars	Status
Terms of Reference	Standard TOR conditions stipulated for Non Coal Mining Projects (as per OM dated 30/05/2022)
Baseline Env. Monitoring studies	Conducted during March to May 2021 representing Summer season in the study area comprise of 10 Km zone around ML and one month revalidation of baseline data was conducted on December 2023.
Env. Public Hearing	Exempted vide O.M dated 11/4/2022. Project has gone through Public Hearing process at the time of obtaining EC under EIA Notification 2006.
Requirement of additional land	NIL (No additional land acquisition / increase in M.L area is involved). Expansion is proposed in existing ML area of 147.10 Ha.

9. **Location and connectivity:** The proposed project is located at located at villages Sanindpur & Oraghat, Tehsil- Koida, District-Sundargarh, State- Odisha of M/s Rungta Sons Pvt. Ltd bearing Toposheet no: 73G/5. Nearby villages are Sanidipur and Oraghat which are located at a distance of 2Km and 1 km respectively from the Lease area. The nearest railhead is at Barsuan of S.E. Railways and is 27 km away. Barbil is nearest railway station at distance of 33 KM. Airport under operation near the area are Bhubaneswar-300 km, Ranchi-220 km & Jamshedpur-172 km. Nearest river is Suna nadi which is 500m away and a power transmission passing through the eastern boundary of lease area. Distance of SH/NH road is 8km away which is NH-520. There are some major reserve forests such as Mendhamaruni, Siddhmath, Khesra, Kathmal, Karo, Patmunda, Kajhurdihi and Lakhraghat within the 10 km area from the lease boundary.
10. **Method of Mining:** The Proposed mining operation will be mechanized opencast, and the maximum total handling will be 26.827 MTPA [(ROM: 20.85 MTPA + 2.085 million tonne from dry crushing & screening of old dumps/low grade stacks) + 3.892 MTPA waste]. However, in the 1st phase, the expansion capacity will be for total handling of 23.0635 MTPA [(ROM: 17.925 MTPA + low grade ore from old stack/dump: 1.7925 MTPA) + Waste: 3.346 MTPA]. The bench height and width will be up to 9m and 20m for C-top Iron quarry. During the proposed mining operation, the maximum waste generation per year will be 3.346 million tonne. The conventional opencast mining is adopted with deep hole drilling & blasting with 110 mm dia. wagon drill, excavation by excavator & dumper combination of capacity 3.2 m³, 3.9 m³, 4.3 m³ and 60 MT. Loader of capacity 2.1m³ are used for loading purposes. Both ore & OB/waste will be transported by dumpers of average capacity up to 40MT. Ore will be dispatched to nearby railway siding by 35 MT dumpers. Sometimes, ore will be transported to buyer's destination by truck also.
11. **Drilling/blasting details:** Drilling will be done by deep hole drilling with 110 mm diameter drilling machine with bit size 110 mm which can drill 35000 m/year on an average. The maximum depth of drill holes will be 10 m including one meter subgrade mineral reject drilling. It is an old mine, blasting requirement is very less, is done as and when required by external agency. However, no explosive storage is present within the mine.
12. **Crusher details:** In the process of expansion additional 4x30 TPH screening plant will be required along with the existing plants.
13. **Dump management:** In the mines there are 3 dumps (Dump B, D & E) Dump-B is a stabilized dump and progressive removal of this dump is under process whereas Dump D & E are active dumps. All dumps are surrounded by retaining wall & garland drain followed the settling pond. The inactive dump slopes are covered by plantation & coir mating. During proposed plan period dump B will be rehandled through screening/Crushing. Dump-D & Dump-E are active dumps. In the mine Dump-D and Dump-E are as waste dumps, occupying an area of 6.62 Ha and 3.6 Ha respectively. In dump D the quantity of waste materials- 4379288m³ up to Nov-2023 and in Dump-E contains total 263674 m³ waste at present. In the plan period it is proposed to dump another 449980m³ waste material in Dump-E in 5.58 ha area. In the year 2024-25, backfilling will be done in B1, over an area of 5.70 ha. Total 1450800m³ waste will be backfilled in Backfilling area B1. In the mine, dump-B is present as mineral reject dump, occupying an area of 8.64 ha. At present 4.53 million tonnes of low-grade iron ore/Mineral reject in present in this mineral reject Dump-B are used as Dump working material.

Existing dump management.

Item	Dump-B	Dump D	Dump E
Retaining wall	803m	1160	360
Garland drain	815m	1170	370
Settling pond	1No.	1 No. 3600 cum	1no. 900 cum

Sl. No.	Year	Name of the dump	Volume of dump (m ³)	Total dump quantity (t)	Grade of mineral reject
1	2023-24 (upto 30.11.23)	Dump- B	2267070.50m ³ / 4534141 MT	221503m ³ / 443006 MT	+45%
2	2024-25	Dump-B	2045567.50m ³ / 4091135.00 MT	1042500 m ³ / 2085000 MT	+45%

14. **Water requirement:** Total water requirement will be 3319 m³/day out of which 3069 m³/day of surface water and 250 m³/day of ground water. NOC from Central Ground Water Authority, Ministry of Water resources, River Development and Ganga Rejuvenation, Govt. of India for withdrawal of 250 KLD of ground water has already been received vide NOC No.: CGWA/NOC/MIN/REN/2/2023/8638 dated 29.11.2023 which is valid up to 17/03/2025. Surface water allocation of 1178 KL has been obtained and additional 1087 KLD has been approved. (Copy is yet to be received) . Balance water requirement will be met from rain water collected in the mine pit.

15. **Power requirement:** The electricity is supplied to the project by WESCO through 8 nos. transformers of total capacity 18815 kVA. For wet beneficiation plant already granted EC, 01 transformer with total capacity of 5MW is already installed. 3 nos. of generator of capacity 1320 KVA are available. There is additional requirement of 3 generators of capacity varying from 140 to 500 kVA (140 kVA, 320 kVA and 500 kVA). Solar power support system of 338.9 KW in the mine office and camp area is under operation. Present requirement of H.S.D is 2590426 Liters/year. For the envisaged increase in production total H.S.D. requirement will be around 3600692 Liters/year.

16. **Greenbelt:** There is 4.32 ha of green belt in the mine. 8640 nos of saplings have been planted excluding causality replacement. In the life of the mine, yearly causality replacement will be done. At the Conceptual period a total of 140.1 ha (out of 147.10 ha) shall be covered under plantation. The tree planted are with species like Teak, Chakunda, Karanja, Mango, Acacia, Simarouba, Neem, Sisoo, etc.

Total plantation proposed during the period 2023-24 to 2024-25			
Year	Proposed Nos. of Saplings	Location of plantation	Area covered (ha)
Proposed Plantation			
2023-24	10000	DUMP-D (Dump slope area with casual replacement as required)	3.0

2024-25	10000	DUMP-D (Dump slope area with casual replacement as required)	3.0
Total	20000		6.0

DETAILS OF PROPOSED AFFORESTATION TILL LIFE OF THE MINE			
Category	Area (ha)	*No of Saplings @1600 per hect.	Total Expenditure (Rs.) @ Rs. 150/plant (Projected base rate 2020-21 @ Rs. 100/ plant with an escalation of 50% i.e., Rs. 150/plant including 5 years maintenance)
Mining	117.7	294175	4412625
Waste Dump	16.52	26432	3964800
Area utilized for Mineral Storage	1.58	2528	265440
Green belt	4.32	6912	1036800
Total	140.1	330047	96,79,665

17. **Manpower requirement:** At present 864 nos. of people are directly employed & 600 nos. of persons are indirectly employed. After proposed production enhancement the direct employment potential will be 1162 and indirect employment potential will be 800 no. of person.

18. **CSR Cost:** Expenditure made from 01.04.2014 to 31.03.2023 is Rs.2,08,95,47,339/- and the proposed expenditure for the year 2023-24 & 2024-25 are Rs.1,91,07,000/- & Rs.81,97,000/- respectively.

19. **Project Cost:** Total project cost is approx. 400 Crore rupees. Capital cost already made on Environment: Rs. 4965.03 lacs. Capital cost to be made on Environment: Rs. 262 lacs. Proposed recurring cost to be made on Environment per year from 2023-24 to lease period: Rs. 2084.74 lacs.

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

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

S. No.	Particular	Status																				
1.	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	The Public Hearing was held on 9/11/2021 at 1.30 PM at open ground near Hanuman Temple at Oraghat Village, under Koira block of Sundergarh District for existing Environmental clearance (attached as Annexure-1(C)) for total excavation 19.3 Million TPA (16.5 million TPA (15.0 million TPA ROM Iron Ore + dry crushing & Screening of 1.5 million TPA of low grade Iron ore from old stacks & dump) +2.8 Million TPA waste) in the mine lease area of 147.10 Ha. Latest compliance status of the issues raised during last public hearing held on 9th November, 2021 is given under Section 6.5 of Chapter-6 of EIA report.																				
2.	There should not be change in Category of the project from 'B2' to 'B1' or 'A' due to proposed modernisation or expansion.	There is no change in the category of project i.e. "B1".																				
3.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-a.-vis the area mentioned in the EC, based on which public hearing has been held earlier.	<p>There is no additional land acquisition/ increase in M.L area/forest land diversion is involved in proposed expansion. Expansion is proposed in existing ML area of 147.10 Ha.</p> <p>Total lease area of Sanindpur Iron and Bauxite Mine is 147.10 Ha, out of which 126.324 Ha is forest land and 20.776 Ha is non-forest land.</p> <p>The Stage-II forest clearance has been obtained in three phases (attached as Annexure-1(G) of EIA report);</p> <p>In first phase, 52.742 Ha. forest land has been granted FC vide letter No.8-135/2003-Fe dated 19.06.2006.</p> <p>In second phase, 15.393 ha forest land has been granted FC vide letter No.8-135/ 2003-FC (vol.) dated 24.10.2013.</p> <p>In the 3rd phase, the balance 58.189 ha forest land has been accorded Stage-II forest clearance vide letter No.8-135/2003-FC (VOL. I) dated 26.11.2020</p>																				
4.	The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	<p>The proposed expansion is of 39% only (Phase-I: 19.5% & Phase-II:19.5%).</p> <table border="1" data-bbox="619 1496 1426 1989"> <thead> <tr> <th></th> <th>Existing (MTPA)</th> <th>Phase-I (19.5%) (MTPA)</th> <th>Phase-II (19.5%) (MTPA)</th> <th>Total (MTPA)</th> </tr> </thead> <tbody> <tr> <td>Total Material Handling</td> <td>19.30</td> <td>3.764</td> <td>3.763</td> <td>26.827</td> </tr> <tr> <td>Total ROM</td> <td>15.00</td> <td>2.925</td> <td>2.925</td> <td>20.850</td> </tr> <tr> <td>Low Grade from Dump & Old Stacks</td> <td>1.50</td> <td>0.293</td> <td>0.292</td> <td>2.085</td> </tr> </tbody> </table>		Existing (MTPA)	Phase-I (19.5%) (MTPA)	Phase-II (19.5%) (MTPA)	Total (MTPA)	Total Material Handling	19.30	3.764	3.763	26.827	Total ROM	15.00	2.925	2.925	20.850	Low Grade from Dump & Old Stacks	1.50	0.293	0.292	2.085
	Existing (MTPA)	Phase-I (19.5%) (MTPA)	Phase-II (19.5%) (MTPA)	Total (MTPA)																		
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Low Grade from Dump & Old Stacks	1.50	0.293	0.292	2.085																		

No.	Particular	Status			
		Waste Handling	2.80	0.546	0.546
5.	Predicted environmental quality parameters arising out of proposed expansion/modernization shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	It is an existing project having well defined EMP in place. The predicted environmental quality parameters for 39% expansion are of within the prescribed standards (discussed under Section 4.5 of Chapter-4) of EIA report and will be maintained well within the prescribed standards.			
6.	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	There will be no reduction in greenbelt and will remain same.			
7.	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application.	The certified compliance report has been obtained vide File No. 101-1054 dated 27.02.2024 (attached as Annexure-1(I)). Latest compliance status of the issues raised during last public hearing held on 9th November, 2021 is given under Section 6.5 of Chapter-6 of EIA report.			
8.	Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	The proposed expansion is up to 39%. Hence as per provision of O.M. dated 11.04.2022, Public Consultation is not applicable.			
9.	Effluent monitoring including	There is no effluent generation in the mine since there is no			

S. No.	Particular	Status
	air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	process waste water and no vehicle maintenance workshop is present. However, storm water generated rainy season is collected in in different water storage structures made at strategic point of the mine. Three Continuous Ambient Air Quality monitoring system has been installed in core and buffer zone.

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

22. The proponent has also furnished compliance to NEERI recommendations as part of standard ToRs and also certified compliance report to conditions stipulated in earlier Environmental Clearance in EIA report. They have furnished through mail revised EIA/EMP report along with queries and clarifications raised by the member during presentation.

Considering the information furnished and the presentation made by the consultant **M/s Ecomen Laboratories Pvt. Ltd., Lucknow** along with the project proponent, the SEAC recommended for grant of Environmental Clearance only for 19.5% increase in Iron Ore production capacity i.e. from 16.5 MTPA (Total material handling of 19.30 MTPA : 15 MTPA ROM Iron Ore + 1.50 MTPA low grade from Dump and Old stacks + 2.80 MTPA waste handling) to 19.7 MTPA (Total material handling of 23.064 MTPA : 17.925 MTPA ROM Iron Ore + 1.793 MTPA low grade from Dump and Old stacks + 3.346 MTPA waste handling) in **Phase - I** under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022 with stipulated conditions as per **Annexure – A** and following specific conditions and **after successful compliance to Phase - I, rest 19.5% increase in Iron Ore production capacity in Phase - II i.e. from 19.7 MTPA (Total material handling of 23.064 MTPA : 17.925 MTPA ROM Iron Ore + 1.793 MTPA low grade from Dump and Old stacks + 3.346 MTPA waste handling) to 22.9 MTPA (Total material handling of 26.827 MTPA : 20.850 MTPA ROM Iron Ore + 2.085 MTPA low grade from Dump and Old stacks + 3.892 MTPA waste handling) will be considered under 7(ii) (a) of EIA notification 2006 as per MoEF&CC, Govt. of India OM dated 11th April 2022.**

- i) The project proponent needs to preserve or utilize the ore and fine's containing Fe between 35-45%, following IBM guidelines.
- ii) The project proponent shall maintain adequate greenbelt in the lease area.
- iii) OB dump sites shall be managed properly as proposed.
- iv) The additional fines generated due to proposed enhancement shall be managed properly.
- v) Proper Air Pollution Control measures shall be provided to control dust emission and local dust generation.
- vi) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent

authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.

- vii) Traffic management shall be done as per recommendation of Traffic Management Study Report duly vetted by institute of repute.
- viii) As a part of six-monthly compliance, the PP shall submit the status of Tailing Pond and its annual make-up to ascertain its capacity to take care of expansion in production including mineralogical & chemical analysis of excavated ore, dump materials and rejects. Also, actual layout after expansion may be submitted as a part of six-monthly compliance to the SEIAA, Odisha and Regional Office, MoEF&CC, Govt. of India, Bhubaneswar.
- ix) Adequate measures shall be adopted for management of noise, vibration and fly rocks.
- x) Bench and dump slopes are to be designed based on scientific studies by subject experts from Institute of repute and maintained so that their failure is avoided.
- xi) The PP shall ensure proper surface runoff management and adopt adequate water conservation measures to augment the water resources of the area.
- xii) The PP shall keep adequate space for storing and managing dump and tailing as brought out in the revised EIA report. All sub grades shall be staked for future use based on their potential (Fe content).

ITEM NO. 03

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

1. This proposal is for Environmental Clearance of M/s. Eastern Estates Construction and Developers Pvt Ltd for Expansion of "Diamond City, Cuttack" is a Residential Apartment with Commercial Building on a land measuring 2.86 acres (11556.61 sq.m) which is located at Village: Pratapnagari, Nuagada, District: Cuttack of Sri Sanjeev Kumar.
2. **Category:** This project falls under Category "B" under 8(a) - Building and Construction projects as per EIA Notification dated 14th Sept, 2006 and its amendments.
3. **Location and connectivity:** The project site is located at Khata No. 96, 985/664, 985/927, 985/928, 985/941, 985/1305, 985/1294, 985/1296, 985/1288, 985/1287, 985/1026, 985/1026, 985/1970, 985/1970 and Plot No. 2340, 2340/3563, 2343, 2333/5410, 2343/5411, 2344, 2334/6142, 2346/5962, 2347, 2347/5956, 2348, 2248/5496, 2248/5497, 2353/6397, 2353/6403 at Village- Pratapnagari, Nuagada, Cuttack, Odisha. The geographical co-ordinates of project site are 20°23'28.19"N & 85°53'6.89"E. The Toposheet no. F45T15. The nearest Airport is Biju Patnaik International Airport which is 17.284 KM away from the project site in SW direction. The nearest railway station is Bhubaneswar New Junction which is 5.337 KM away from the project site in W direction. The nearest ring road is 1.95 KM, SH-16 is 7.36 KM and NH-16 is 0.06 KM away from the project site in ENE, N & SW direction respectively. 5. The Chandaka Reserved Forest is about 11.33 km in SW direction, Nandan Kanan

Zoo is about 6.20 km in W direction & Churhanga Reserve Forest is about 7.19km in WNW direction.

4. The site is coming under Cuttack Development Authority.
5. The total plot area is 11556.61 sq.mt./2.86 Acre with total built-up area is 65660.35 sq.mt.
6. Statutory Clearances obtained so far for the project are;
 - a. The project was earlier granted EC by SEIAA, Odisha vide letter no 441322/121-INFRA2/09-2023 dated 30.10.2023 for a total plot area of 2.48 acre or 10039.85 m² and total built-up area of 54,514.323 m².
 - b. CGWA NOC has been obtained vide letter no. CGWA/NOC/INF/ORIG/2023/19261 valid from 18/09/2023 to 17/09/2028.
 - c. The NOC for Water Supply and Sewerage connection has been obtained from Office of the General Manager, WATCO Division, Cuttack vide letter no. 10468 dated 19/09/2022.

7. Comparative Area Statement -

S. No.	Particulars	As per earlier EC granted	Expansion	Total
1	Total Plot Area (Acres)	2.48	0.38	2.86
2	Total Plot Area (Sq.m)	10039.85	1516.76	11556.61
3	Total FAR Area (Including Services) (sq.m)	40346.04	10624.52	50970.56
4	Ground Coverage (Permissible) 40% (sq.m)	4015.94	606.70	4622.64
5	Achieved Coverage 35.76% (sq.m)	3865.34	267.35	4132.69
6	Non Far (Combined Stilt and Basement built-up area) (sq.m)	12168.26	2521.53	14689.79
7	Miscellaneous Area (Guard Room, STP, UGT etc.) (sq.m)	2000.00	-2000.00	0.00
8	Total Built-up Area (3+8+9) (sq.m)	54514.30	11146.05	65660.35
9	Green belt Area (sq.m) (25% of total plot area)	2514.85	374.30	2889.15
10	Paved Open Green & Avenue Green area (sq.m) (13% of total plot Area)	1305.18	197.18	1502.36
11	Surface Parking Area (sq.m)	880.00	275.66	1155.66
12	Road and Open Area (sq.m)	1857.38	19.37	1876.75
13	Parking (ECS)	396	157	553

8. The total population is 3163 Nos (as per earlier EC & Expansion).
9. **Power Requirement:** The power supply is supplied by (Odisha State Electricity Board). The connected load for Project is approx. 2500 KVA (As per earlier granted EC & Expansion). There is provision of 4 no. of DG sets of total capacity 1010 KVA (1*150 + 1*62.5 + 2*400 KVA each) for power back up in the Project. The DG sets is equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.

10. **Water requirement:** During operation phase, the total water requirement will be approx. 393 KLD (After Expansion) out of which fresh water demand will be 256 KLD.
11. **Wastewater details:** The project will generate approx. 334 KLD (After Expansion) of wastewater. The wastewater will be treated in onsite STP of 350 KLD capacity. The treated effluent will be reused for flushing and landscaping purpose. About 163 KLD surplus water in summer season and 166 KLD surplus water in monsoon season will be discharged in existing drain/external sewer.

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

12. **Rainwater harvesting details:** They have proposed for 10 no. of RWH pits of 9.81 cubic meter capacity each within the project site.
13. **Parking details:** Total parking area provided is 14689.79m². Total no. of 553 ECS parking is proposed.
14. **Solid waste generation:** During the operation phase, the solid waste will be generated as per the below table;

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

15. **Fire fighting Installations:** Fire fighting measures will be adopted as per the guidelines of NBC. External yard hydrants shall be installed around all buildings in the complex in galvanized steel fire house cabinet (weather proof).
16. **Greenbelt:** Green belt will be developed over an area of 2889.15 sqm which is 25% of the total plot area. Total no. of 150 plants to be planted and 3-meter spacing between plants in 2 tier plantation. There will be a provision of Paved Open Green & Avenue Green area over an area of 1502.36 sqm which is 13% of total plot Area.

17. **Project cost:** The estimated project cost is 87 Crores or 8700 Lakhs and cost for EMP is 1.74 Crores or 174 Lakhs i.e. 2 % of the total project cost.

18. **Environment Consultant:** The Environment consultant M/s. **Oceao-Enviro Management Solutions (India) Pvt. Ltd, Ghaziabad** along with the proponent made a presentation on the proposal before the Committee.

Considering the information furnished and the presentation made by the consultant M/s **Oceao-Enviro Management Solutions (India) Pvt. Ltd, Ghaziabad** 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:

- i) Comparison table for previous and present status w.r.t. greenbelt, solar power utilization, parking requirement, water requirement and pollution load etc.
- ii) NOC for water usage; separately for commercial unit and domestic purpose.
- iii) Revised traffic study report incorporating the additional load in traffic due to revised plan.
- iv) Mitigation measures to be followed during construction phase.
- v) No. of labourers to be employed during the construction period.
- vi) Explore possibility for solar power utilization by incorporation of rooftop panels.
- vii) Lightening of the internal roads to be done by utilizing the solar power generated.

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

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

ITEM NO. 04

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. NAWAH CORPORATE PRIVATE LIMITED FOR RESIDENTIAL APARTMENT PROJECT "9 EMPORIO" TOTAL BUILT UP AREA 28899.79 SQM LOCATED AT PLOT NO. 203,205,202/3352/3637/4137, 202/3352/4136, 205/3973, 206/1764, 191/4275,191/4276 & 204/3607 KHATA NO - 511/3668, 511/3669, 511/2648, 511/3688,511/3689 & 511/3585, OF MOUZA-RAGHUNATHPUR JALI, TEHSILBHUBANESWAR, DISTRICT- KHURDA OF SRI SIDHARTHA SEKHAR MOHAPATRA – EC

1. This proposal is for Environmental Clearance of M/s. Nawah Corporate Private Limited for Residential Apartment Project "9 Emporio" total Built up area 28899.79 sqm located at Plot No. 203,205,202/3352/3637/4137, 202/3352/4136, 205/3973, 206/1764, 191/4275,191/4276 & 204/3607 Khata No -511/3668, 511/3669, 511/2648,

511/3688,511/3689 & 511/3585, of Mouza- Raghunathpur Jali, TehsilBhubaneswar, District- Khurda of Sri Sidhartha Sekhar Mohapatra.

2. **Category:** This project falls under Category "B" under 8(a) - Building and Construction projects as per EIA Notification dated 14th Sept, 2006 and its amendments.
3. **Location and connectivity:** The project site is located at Plot No. 203,205,202/3352/3637/4137, 202/3352/4136, 205/3973, 206/1764, 191/4275,191/4276 & 204/3607 Khata No -511/3668, 511/3669, 511/2648, 511/3688,511/3689 & 511/3585, of Mouza- Raghunathpur Jali, Tehsil- Bhubaneswar, District- Khurda, Odisha. The geographical co-ordinates of centre of project site are 20°22'55.10"N and 85°49'24.56"E. Toposheet no. F44T15. The Nearest Highway is NH-16 which is 6.3km in East direction from the project site, NH-316 A is 7.5km towards ESE direction, NH-55 is 11.5km towards North East direction, & Nanadakanan Road Site connecting road is adjacent to the project site in east direction. The nearest Railway Station is Bhubaneswar New Junction Station, which is about 1.3 km (East) away from the project site. Biju Patnaik International Airport is at 13.5 km (S) from project site.
4. The site is coming under Bhubaneswar Development Authority.
5. The plot area is 3,925.32 m² (0.97 Acre) with total built-up area 28,899.79 m².
6. Statutory Clearances obtained;
 - a. CGWA NOC has been obtained vide no. **CGWA/NOC/INF/ORIG/2023/19024** valid from **16th Aug. 2023** to **15th Aug. 2028**.

7. **Area Statement –**

S. No.	Particulars	Total Area (m ²)
1.	Total Plot Area	3,925.32
	Area affected by Road	449.02
	Net Plot Area (1-2)	3,476.30
2.	Permissible Ground Coverage (@ 40% of the net plot area)	1390.52
3.	Proposed Ground Coverage (@34.36% of the net plot area)	1,194.60
4.	Total Permissible FAR (@6 of the net plot area)	20,857.8
5.	Total Proposed FAR (@5.99 of the net plot area)	20,846.43
6.	Non-FAR (Parking and Services)	8,053.36
7.	Total Built Up Area (2B+S+34)	28,899.79 m ²
8.	Green Area Proposed (20.06 % of net plot area)	697.25 m ²
9.	Maximum Height of the Building up to terrace level (meter)	111.15

8. **The total population** is 3163 Nos (as per earlier EC & Expansion).
9. **Power Requirement:** The power supply will be through TP Central Odisha Distribution Limited (TPCODL). The total maximum demand is estimated as 1498.82 kVA. 5% of the total power demand will be met through solar energy i.e. 74.941 kVA along with 5% for LED lighting and other conservation measures. Solar energy will be utilized for street lighting, solar blinkers and signage to reduce electricity consumption. There is provision

of 1 nos. of DG sets of total 1010 kVA (1 X 1010 kVA) capacity for power back up. The DG set will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion as per CPCB norms.

10. **Water requirement:** During operation phase, the source of water supply will be Ground water. The total water requirement for the project will be approx. 96 KLD out of which domestic water demand is 93 KLD. The fresh water requirement will be 61 KLD.
11. **Wastewater details:** The project will generate approx. 81 KLD of wastewater. The wastewater will be treated in onsite STP of 112 KLD capacity. The treated effluent will be reused for flushing & horticulture. Surplus treated effluent will be discharged to external sewer.
12. **Rainwater harvesting details:** They have proposed for 1 RWH pit of 75 m³ capacity for artificial ground water recharge.
13. **Parking details:** Proposed Parking Area = 5,864.82 m². Total 193 ECS parking is proposed.
14. **Solid waste generation:** During the operation phase, waste will comprise domestic as well as horticultural waste. The solid waste generated from the project shall be approx. 365 kg per day (@ 0.5 kg per capita per day for residents, @ 0.15 kg per capita per day for the visitor, 0.25 kg per capita per day for the staff members and landscape waste @ 0.2 kg/acre/day.
15. **Fire fighting Installations:** Fire fighting measures will be adopted as per the guidelines of NBC. External yard hydrants shall be installed around all buildings in the complex in galvanized steel fire house cabinet (weather proof). All external yard hydrants shall be at one meter height from finished ground level as per NBC at a distance of 60 m along the road. External fire hydrants shall be located such that no portion of any building is more than 45 m from a hydrant and the external hydrants are not vulnerable to mechanical or vehicular damage.
16. **Greenbelt:** Green Belt will be developed over an area of 697.25 m² i.e. 20.06% of the plot area. Total 60 Nos. of plants to be planted and 3m spacing between plants and it will be 2 tier plantation.
17. **Project cost:** The estimated Project cost is 58 Crores (Land and Development Cost) and cost form EMP is 25.42 lakhs.
18. **Environment Consultant:** The Environment consultant **M/s. Grass Roots Research & Creation India (P) Ltd., Noida** along with the proponent made a presentation on the proposal before the Committee.

Considering the information furnished and the presentation made by the consultant, **M/s Grass Roots Research & Creation India (P) Ltd., Noida** 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:

- i) Width kept for fire corridor with layout
- ii) NOC/Permission from Road authority to discharge the storm water to nearest roadside drain.

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

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

ITEM NO. 05

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S NEW LAXMI STEEL & POWER PVT. LTD. & M/S NEW LAXMI INDUSTRY PVT. LTD FOR EXPANSION OF EXISTING IF FROM 58,700 TPA (2 X 8 T + 1X10T) TO FINAL 4,45, 500 TPA (REPLACEMENT OF EXISTING 2 X 8T WITH NEW 2 X 25T, EXISTING 1 X 10 T AND NEW 3 X 25 T) AND NO EXPANSION OF EXISTING 1,44,000 TPA ROLLING MILL, 1,20,000 TPA STRUCTURAL MILL & 29,000 TPA GALVANIZED STEEL LOCATED ADJACENT AT JAYAMANGALA, SARUA, KHORDHA OF SRI RAHUL AGRAAWAL – TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference (ToR) for obtaining Environmental Clearance of M/s New Laxmi Steel & Power Pvt. Ltd. & M/s New Laxmi Industry Pvt. Ltd for Expansion of existing IF from 58,700 TPA (2 X 8 T + 1X10T) to final 4,45, 500 TPA (Replacement of existing 2 X 8T with new 2 X 25T, existing 1 x 10 T and new 3 x 25 T) and No expansion of Existing 1,44,000 TPA Rolling mill, 1,20,000 TPA Structural mill & 29,000 TPA Galvanized Steel located adjacent at Jayamangala, Sarua, Khordha of Sri Rahul Agrawal.
3. **Category:** This project falls under Category "B" under 3(a) - Metallurgical Industries (ferrous and nonferrous) as per EIA Notification dated 14th Sept, 2006 and its amendments.
4. The PP proposes Merger of New Laxmi Steel & Power Pvt. Ltd. & New Laxmi Industry Pvt. Ltd., located adjacent at Jayamangala, Sarua, Khordha to form a single entity named as New Laxmi Steel & Power Pvt. Ltd. & Expansion of existing IF from 58,700 TPA (2 X 8T + 1X10T) to Final 4,45, 500 TPA (Replacement of existing 2 X 8T with new 2 X 25T, existing 1 x 10 T and new 3 x 25 T) and No expansion of Existing 1,44,000 TPA Rolling mill, 1,20,000 TPA Structural mill & 29,000 TPA Galvanized Steel.
5. **Location and connectivity:** The project site is in IDCO Land of 6.9160Ha. (17.090 acres) is located at Plot No 1974(P) & 192/244(P), 1974(P). Revenue Khata No 594 & 89 Corresponding to IDCO Plot No ,A/32 corresponding to IDCO Plot No.A/22, A/23, A/24 & A/25 in Mouza: Sarua and Jayamangala. Total 17.090 Ac/6.9160 Ha. The

geographical co-ordinates of the project site are - NE Extent of KML is 20.208277 to 85.541276 and SW Extent of KML is 20.205084,85.538357 falls under Toposheet no. F45T7, F45T8, F45T11, F45T12. Nearest approach roads to the project site: SH 1/NH57 -0.65 km, NH 16 - 9.25km, Atri Road - 2.14km, NH14/SH13 - 11.03km and NH5 – 13.25 km. The nearest Railway Station is Khordha railway station-7.64km, Begunia railway station - 11.31km away from the project site. Nearest Airport is Biju Patnaik International Airport is at 29.01 km (S) from project site. Nearest town is Khordha Town is at 8.92 km. Nearest habitations are Jayamangala at 0.45 and Sarua at 0.71km. No National Parks, Wildlife Sanctuaries, Biosphere Reserves within 10 Km radius of the proposed site. Nearest forest are - Chandaka Dampada Sanctuary (8 Km NNE), Barunei RF (10.18 km, ESE), Tarakai RF (10.53 km, NE), Jayamangala RF (1.96km, NNE), Tartua protected forest(4.40km ENE), Jariput protected forest (7.25 km SSE). Nearest Water Body are Chatra Nala (3.03km WSW), Narasingh Nala (0.77Km SSW), Rana River (5.33 km ENE). The area falls on under Sismic zone III.

6. List of Statutory clearances obtained earlier

Year	NEW LAXMI INDUSTRIES PVT LTD	
2017	CTO (30/12/2016)-File No - 5296/RO-CON-882 valid till 31/03/2017	Details of Product Manufactured
		Steel structure -50TPD
		Galvanized Steel Structure-40TPD
		Emission permitted through Stack MS stack attached to galvanization chamber -30m above ground level
2023	CTO	Valid From - 01/04/2023-31/03/2025
		Valid from-01/04/2023-31/03/2025
	CTE (4/02/2023)- File no- 251/RO-BBSR/NOC-1351	Production of Slag Touched Metals By processing Iron (Ferro) Slag at quantity of 700 MT/Month
		Details of Products Manufactured
	CTO (24/04/2023) -File no- 1396/RO-BBSR/882 valid upto- 31/03/2025	Iron Ingot/Billet -29000MT/Annum
		Production of Slag Touched metals -7000MT/Annum
		Galvanized Steel Structure -29000MT/Annum
		Discharge Permitted -
		Outlet of ETP of Galvanizing Plant -200KLD
		Emission permitted through Stack
		Stack attached to 8TPH Induction Furnace- 30m above ground
		Oil Fired Furnace at to Zinc Melting Vessel -11m
Stack attached to wet scrubber of galvanizing Unit - 11m		
DG set		
Year	NEW LAXMI Steel & Power (P) LTD	
2008	CTE(2535) date- 4/10/2008	For production of 2975MT/Month of MS Rod
2010	CTO(685/RO/CON/408) date - 28/06/10 valid up to - 31/03/2015	MS Rod : 2475MT/Month
		Emission Permitted through the Stack
		M.S Stack Attached to IF - 30mtr Above Ground Level
CTE (452/RO/CON/408) DATE-10/05/10	Attached to RHF -30mtr Above Ground Level	
2021	CTO (28/04/2021) -File no - 2584/RO-CON-408 valid up to 31/03/2024	Production of MS Rod of 2450MT/Month At Sarua Industrial Estate
2021	CTO (28/04/2021) -File no - 2584/RO-CON-408 valid up to 31/03/2024	Details of Products Manufactured
		M.S. Rod -1,44,000MT/Annum Iron Ingot Billet -29,700MT/Annum
	CTO period from (01/04/2021-31/03/2024)	To make new discharge of Sewage/trade Effluent from land premises owned

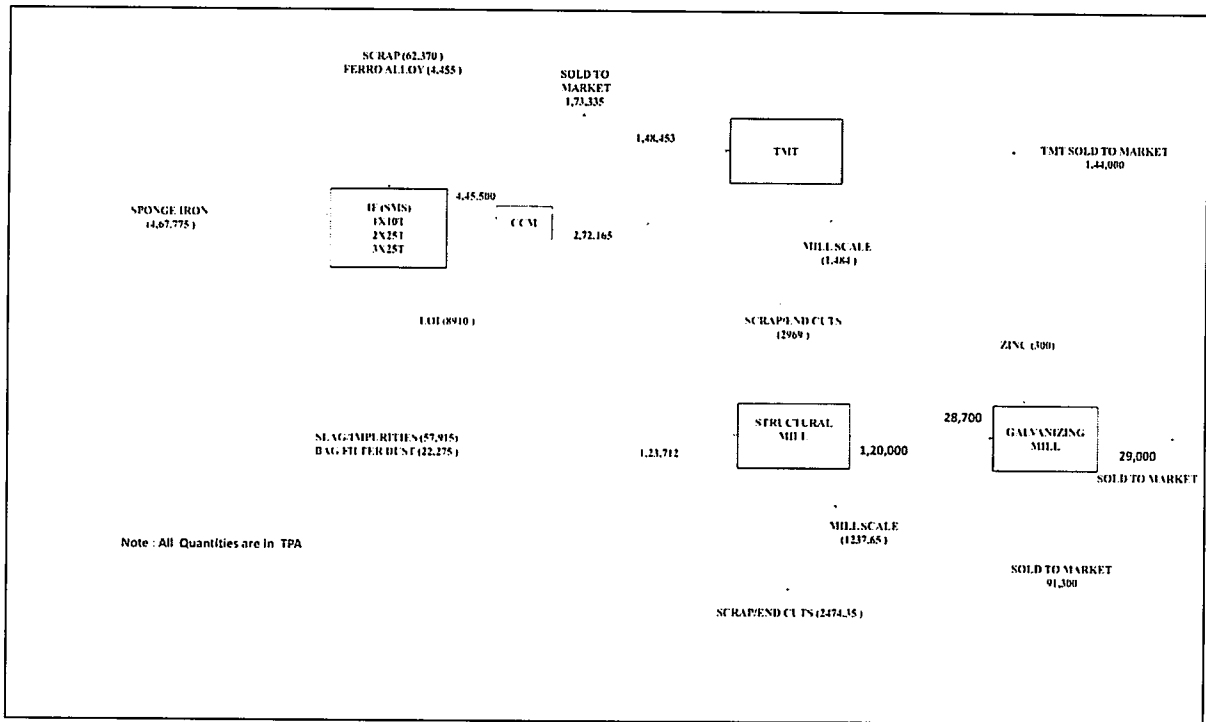
7. The Landuse breakup:

Sl. No.	Description	Area in Acres	%
1	Rolling Mill	1.751	10.294
2	Induction Furnace	1.679	9.871
3	Storage Shed	0.873	5.132
4	Structural Shed	1.042	8.242
5	Galvanized Shed	0.880	5.173
6	Office & Scale Room	0.074	0.435
7	Security Room	0.009	0.052
8	Crusher Shed	0.516	3.033
9	Labour Room	0.038	0.223
10	Parking Place	0.075	0.440
11	ETP	0.014	0.082
12	Other Facilities	1.023	6.014
13	Truck parking	0.428	2.516
14	Solid Waste	0.229	1.346
15	Surface Runoff	0.162	0.952
16	Ladle Refining Furnace	0.046	0.270
17	Raw Material Storage	0.422	2.481
18	Green Belt	5.662	33.288
19	Internal Road	1.726	10.147
TOTAL AREA		17.009	100

8. The Plant Configuration as follows:

UNITS	Existing		Proposed For EC		Total For EC
	M/s. New laxmi steel & power Pvt. Ltd.	M/s. New laxmi industries Pvt. Ltd.	M/s. New laxmi steel & power Pvt. Ltd.		M/s. New laxmi steel & power Pvt. Ltd.
Induction furnace	2 X 8T (1 Working + 1 Standby) (29700 TPA)	1 X 10T (29000 TPA)	2 X 8T to be replaced with 2x25T (1,65,000 TPA)	3 x 25 T (2,47,500 TPA)	2 x 25T +1 x 10 T + 3 x 25 T 4,45,500 TPA
Rolling mill	1x144000 TPA	-	-	-	1x144000 TPA
Structural mill	-	1 x 120000TPA	-	-	120000 TPA
Galvanizing plant	-	29000 TPA	-	-	29000 TPA
Slag Touched Metal (Metal Recovery)	--	7000 TPA	--	--	7000 TPA

9. INTEGRATED PROCESS FLOW CUM MATERIAL BALANCE



10. Details of Minerals:

S. No	Raw Material	Quantity required per annum			Source	Aerial Distance from site (Kms)	Mode of Transportation
		Existing (TPA)	Expansion (TPA)	Total (TPA)			
1	Sponge Iron	61,635	381885	4,43,520	Chhatia/Keonjhar	80/225 KM	Road
2	Pig iron/Scrap	8218	50,917	59135	Jajpur	135 km	Road
3	Ferro Alloy	587	3637	4224	Jajpur	135 km	Road
4	Zinc	300	-	300	Local market	100-500 km	Road

11. Summary of products generated by the project

UNITS	Existing		Proposed For EC		Total For EC
	M/s. New laxmi steel & power Pvt. Ltd.	M/s. New laxmi industries Pvt. Ltd.	M/s. New laxmi steel & power Pvt. Ltd.	M/s. New laxmi steel & power Pvt. Ltd.	M/s. New laxmi steel & power Pvt. Ltd.
Induction furnace	2 X 8T 29700MT/Annum	1 X 10T 29000MT/Annum	2 X 8T to 2x25T	3 x 25 T	2 x 25T +1 x 10 T + 3 x 25 T 4,45,500 TPA
Galvanizing plant	-	29000 TPA	-	-	29000 TPA
Rolling mill	1x144000 TPA 144000 TPA	-	-	-	1x144000 TPA 144000 TPA
Structural mill	--	1 x 120000 TPA 120000 TPA	-	-	120000 TPA

12. Waste generated and management:

S. No	Unit	Detail
1	Waste Water	ETP + STP and maintenance
2	Air	APCD (ESP, Bag Filter)
3	Hazardous Management	Proper collection, Safe Handling, Storage within premises and disposal of waste at approved TSDF, recyclers, etc as applicable

The Raw Material Handling Section would be provided with dust suppression (DS) by water sprinkling at the stockyard and multiple dust extraction (DE) systems for the dust generation points at the screen, conveyor transfer point, and gas sealing devices to arrest the dust emissions to the atmosphere. The DE system shall consist of bag filter units complete with ducts, extraction fans, and a stack of appropriate height.

The exhausted gases sucked through the Pellet plant will be cleaned in an ESP. The dust collected will be discharged into a water-sealed chamber and sent to the primary mixing unit for recirculation. Waste gases will be discharged into the atmosphere through a chimney.

13. Baseline study has been conducted for Time period - 1st Oct 2023 to 31st Dec 2023 (Winter Season) for Air, water, soil, noise quality monitoring.

14. Water requirement: The total water required is 903 KLD (Makeup).

15. Existing water requirement is 269 KLD (water requirement is obtained from ground water (Existing water Ground water permission, vide NOC No. CGWA /NOC/IND/ORIG/2021/12823 Application No.: 21-4/2906/OR/IND/2021 Valid up to: 03/09/2024)

16. The Blow down water 163.41 KLD will be utilised in Ash quenching, sprinkling on road and plantation.

17. Proposed water requirement is 634KLD (as Ground water use will be phased out after availability of surface water at site), the source of water will be from ground water (NOC from CGWB has been obtained).

18. Existing Ground water use will be phased out after availability of surface water at site.

19. Rain Water Harvesting system - 112m³/day water will be available for rainwater Harvesting and it will be reused in process after treatment. So net Water Required will be :-903-112=791 KLD

20. Existing Break up of water requirement

Plant Facilities	Circulating Water m ³ /day	Makeup Water m ³ /day	Recirculation Water m ³ /day	Evaporation m ³ /day	Waste water generation m ³ /day
SMS 58700 TPA	9200	101	9,099	84	16.89
Galvanizing plant	1	1	0	0.5	0.50

29000 TPA					
Structural 120000 TPA	6,600	73	6,527	61	12.12
Rolling 144000 TPA	8,000	88	7,912	73	14.69
Drinking & Sanitation	5.44	5.44	-	1.088	4.352
TOTAL	23,806	269	23,538	220	49

21. Proposed Break up of water requirement

Plant Facilities	Circulating Water m ³ /day	Makeup Water m ³ /day	Recirculation Water m ³ /day	Evaporation m ³ /day	Waste water generation m ³ /day
SMS 422400 TPA	66191	720	65,471	600	120
Galvanizing plant 29000 TPA	10	10	0	3	7
Rolling 120000 TPA	6,600	73	6,527	61	12.12
Rolling 144000 TPA	8,000	88	7,912	73	14.69
Drinking & Sanitation	12	12	-	2.4	9.6
TOTAL	80,813	903	79,910	739.4	163.41

22. **Power Requirement:** The total power requirement for plants is 47.12 MW. Existing power 10.49MW is obtained from TPCODL. Proposed Power Requirement is 36.63MW obtained from TPCODL. DG set of 750 KVA will be installed as stand by (Emergency use). Provision of Solar power: 2% of the total power consumption .is 94KW.

S L	FACILITIES	CAPACITY PRESENT	After modification of Existing	PROPOSED	POWER CONSUMPTION IN MW			
					Existing	After modification of Existing	Proposed	Total
1	SMS	58700 TPA	198000TPA	247,500 TPA	5.56	18.75	23.44	42.19
2	Galvanizing plant	29000 TPA	29000 TPA		0.5	0.5		0.50
3	Rolling Mill	1 X 144000 TPA	1 X 144000 TPA		1.2	1.2		1.20
4	Structural Mill	120000 TPA	120000 TPA		3.0	3.0		3.03
5	Miscellaneous				0.2	0.2	0.3	0.50
TOTAL					10.49	23.68	23.44	47.12

23. **Rainwater harvesting details:** Total Volume of Runoff Available: 41037.97 m³/yr. ≈ 41038 m³/yr. Harvesting Potential = 41,038 / 365 = 112 m³/day.
24. **Greenbelt:** Green Belt will be developed over an area of 33.288% of total plant area (5.662 acres). The green belt include plantation surrounding the Project boundary along the roads and around various facilities like shops and offices. 2500 number of trees per Hectare will be planted for the greenbelt development. So total no. of trees will be planted for greenbelt area = 2500 x 2.275 ha. = 5687.5 no. of tress. A three-tier plantation is proposed comprising of an outermost belt of taller trees which will act as a barrier. Local plant species will be preferred as per the CPCB guidelines in consultation with the Local Forest Department.
25. **Manpower Requirement:** Total about 295 persons are proposed to be hired for plant operations including officers, skilled and unskilled workers. Required manpower shall be sourced from local area. During Construction phase, the labours and workers will be hired from nearby villages.

Particulars	Existing	Proposed	Total
Managerial	2	2	4
Supervisory	5	3	8
Skilled	10	10	20
Semiskilled	50	80	130
Unskilled	48	85	133
Total (Direct)	115	180	295

26. **Project cost:** The estimated Project cost is Rs.69.51 Crore (Existing: Rs. 39.51 Crore, Proposed: Rs. 30. Crore) Rs. 4.8 Crore (Existing: Rs 2.7 Crores, Proposed: Rs 2.1 Crores).

Sl. No.	Particulars	Existing (Rs. Crores)	Proposed (Rs. Crores)	Total (Rs. Crores)
1	Land	0.8	-	0.8
2	Building	8.18	7.5	15.68
3	Plant and Machinery	27.83	20.4	48.23
4	EMP Cost	2.7	2.1	4.8
5	Others	-	-	-
	Total capital cost	39.51	30	69.51

S. No	Unit	Detail	Capital Cost	Operating Cost	Maintenance Cost	Total Recurring Cost
			(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)
1	Waste Water	ETP + STP and maintenance	54	3	1	4
2	Air	APCD (Bag Filter, Water sprinklers)	158	8	6	14
3	Solid and Hazardous Waste Management	Collection , handling, storage and disposal to authorized parties	19	0.7	0.3	1

4	Fire & Safety	Fire Extinguishers, Fire hydrant system	53	1.3	0.7	2
5	Env. Monitoring	CAAMS , CEMS, Third Party monitoring	56	1.5	0.5	2
6	Green Belt Development	Plantation	34	1.5	0.5	2
7	Occupational Health	Medical Health check-up, PPE	17	0.8	0.2	1
8	CER	Solar Panel & Road Construction etc. as required	82	4.2	0.8	5
9	Misc.	Contingency Fund	7	1.8	0.2	2
Total			480	22.8	10.2	33

27. **Environment Consultant:** The Environment consultant **M/s Visiontek Consultancy Services 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 Visiontek Consultancy Services Private Limited., 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 TOR application:

- i) Justification why EC was not required for both the existing projects and why the present case will not be treated as violation case.
- ii) Copies of CTE and CTO earlier obtained for both the existing units.
- iii) NOC/Permission copy from concerned DFO from Chandaka Damapara wildlife sanctuary that the project site does not fall under the eco sensitive zone of the sanctuary.
- iv) Supporting documents for merger of 2 units to a single unit.

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

- i) Present status of the existing projects.
- ii) Construction activity if any started at the site and extent of construction activity for the proposed project.
- 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) Any other issues including local issues.

ITEM NO. 06

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. INFRASTRUCTURE UNIT TWO PROPOSES FOR INSTALLATION OF A CEMENT GRINDING UNIT OF CAPACITY 15000 TONS PER ANNUM. THE TOTAL PROJECT AREA IS OF 0.853 ACRE LOCATED AT IDCO PLOT NO. 2/A/1 & 2/A/2 KH. NO. 1068, REVENUE PLOT NO. 37/P REVENUE MOUZA- EKATALI, DIST-JHARSUGUDA OF SRI ARUN MUNDRA – TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference (ToR) for obtaining Environmental Clearance of M/s. Infrastructure Unit Two proposes for installation of a Cement Grinding Unit of capacity 15000 tons per annum. The total project area is of 0.853 Acre located at IDCO Plot No. 2/a/1 & 2/A/2 Kh. No. 1068, Revenue Plot No. 37/P Revenue Mouza- Ekatali, Dist-Jharsuguda of Sri Arun Mundra.
3. **Category:** This project falls under Category "B" under 3(b) - Cement plants (Standalone Grinding unit) as per EIA Notification dated 14th Sept, 2006 and its amendments.
4. The proponent M/s. Infrastructure Unit proposes for installation of a Cement Grinding Unit of capacity 15000 ton per annum. The cement will be used as raw material for the paver block and chequered tiles together will be used for selling in the open market. The total project area is of 0.853 Acre located at IDCO Plot No. 2/A/1 & 2/A/2 Kh. No. 1068, Revenue Plot No. 37/P Revenue Mouza- Ekatali, Dist-Jharsuguda Pin- 768201, Odisha
5. **Location and connectivity:** The proposed Cement Grinding Plant is located at IDCO Plot No. 2/a/1 & 2/A/2 Kh. No. 1068, Revenue Plot No. 37/P Revenue Mouza- Ekatali, Dist-Jharsuguda Pin- 768201, Odisha. The plot size of approx. 0.853acres has been allotted on dated 01.02.2022 by M/s IDCO Govt. of Odisha in favor of M/S Infrastructure. Lease deed Certificate No- IN-OD03208698129562U Dt. 01:02:2022. The Geo coordinates are: P1 - 21.881586N 84.008691E, P2 - 21.881203N 84.00891E P3 - 21.881342N 84.009174E P4 - 21.881522N 84.009533E P5 - 21.881897N 84.009349E P6 - 21.881708N 84.009888E and falls under Toposheet No - F44R13. The project site can be approached is at a distance of 5km from the national highway, 2km from the state highway and 10km from the Jharsuguda airport. IB River is 4.5 kms from the project site. The project site can be approached is at a distance of 5km from the national highway no -53, which connects Raipur/Chandikhol and 10 km from the Jharsuguda airport.
6. Total Landuse Breakup:

SI No.	Pattern of Utilisation	Area in Ha.
1.	Plant and Building	0.1232
2.	Road and Open Space	0.1160
3.	Parking Area	0.0223
4.	Green Belt	0.0835
	TOTAL	0.345 Ha.

7. **Details of mineral:** The proponent M/s. Infrastructure Unit proposes for installation of a Cement Grinding Unit of capacity 15000 ton per annum. The cement will be used as raw material for the paver block and chequered tiles together will be used for selling in the open market
8. The cement will be used as raw material for the paver block and chequered tiles together will be used for selling in the open market.
9. **Details of Raw Materials –**

Sr.No.	Material	Source	Transportation mode
1	Clinker	Transported from Clinkerization Unit	By Trucks
2	Gypsum	Purchase from Market	By Trucks
3	Flyash	Nearby Power Plant	By Covered Trucks
4	GGBS/Slag	Transported from Clinkerization Unit	By Trucks

10. Summary of products generated by the project

There are three products, which M/s Infrastructure (Unit –II) proposes to produce 15000 MT of the mixture to be used as raw material for the Paver Block and Chequered Tiles together with to be used for selling the same in Open Market. The details of Products, which are proposed to be manufactured is as follows:

1. Mixture type Grade-1 with use of Clinker; and Gypsum and GGBS/Slag
2. Mixture type Grade-2 with use of Clinker, flyash and Gypsum
3. Mixture Type Grade-3 with use of Clinker and Gypsum

The proposed plant aims to produce equal quantity of both grades of materials. The majority of the product is supposed to be used in the captive consumption i.e. as a source of Raw material for the production of Paver Block and Chequered Tiles.

The project involves installation of a small grinding unit for manufacturing of Portland Pozzolana Cement (PPC)/ Ordinary Portland Cement /Slag cement using Clinker, Gypsum and Flyash and Slag/GGBS.

Product OPC/PPC/ Slag cement (SPC)			
Product Mix	PPC	OPC	Slag Cement
Clinker	65%	90%	50%
Gypsum	5%	5%	5%
Flyash	30%	0%	0%
GGBS/slag	0%	5%	45%

11. **Details of waste generated:** No solid waste will be generated from the cement manufacturing process. Dust collected from air pollution control equipment will be totally recycled in process. A part of used oil will be utilized for lubrication purpose and remaining will be sold authorized members.

12. Mitigation of waste produced:

Sl. No	Waste	Qty/Year	Unit	Method of Disposal	Area
1	Used Oil	1	KL	Used internally for lubrication of scraper chains	Plant
2	Used Grease	100	Kg	Giving to PCB approved agencies	
3	Lead Acid Batteries	10	Nos	Exchanging with PCB approved agencies/OEMs	
4	Transformer Oil	0.1	KL	Giving to PCB approved agencies	

13. **Other waste generation, if any:** Dust collected from air pollution control equipment is totally recycled in process. Solid waste generated from office area is disposed after segregating the waste into biodegradable and non-biodegradable.
14. Baseline study conducted (if taken) – Time period, Air, water, soil, noise quality monitoring results: Post-Monsoon, 15th Nov – 15th Dec (One Month).
15. Total water requirements and waste water management: The water requirement for the grinding unit, for domestic purpose estimated to be 2000 Lt. or 2 KL.
16. **Power requirement and solar power details:** The total connected power of the plant is expected to be about 76 KWH and shall be met by installing 315 KVA switch yard with suitable step down transformer.
17. **Rain water harvesting details** – The rain water harvesting would be done by means of making a suitable structure in the North-East side of the area with a proper slope gradient to a pit size of 8m x 8m sump for collecting the yield rain water and further a bore well of 6 inch radius for further charging of the ground water table.
18. **Green belt development:** Out of total land 33% of the area will be covered under greenbelt & plantation. A thick greenbelt all along the roads and plant will be developed. Plantation will be done in and around the plant premises. 80% survival rate will be maintained with all possible efforts. The trees have been planted at suitable grid spacing to encourage proper growth. Local plant species will be preferred.
19. **Total employment:** There will be an employment opportunity of 20 direct and 20 indirect manpower due to the project. Unskilled/ semi-skilled manpower can be sourced from the local area and skilled manpower shall have to be sourced from outside/ local.
20. **Total Project cost and EMP, CSR Cost** - Project Cost - Rs 2.8 Cr. (approx.), EMP cost - Rs 0.25 Corers, CSR Cost - Rs 0.05 corers/annum.
21. The Project Proponent has requested for public hearing exemption for the project as, the site is located at the IDCO industrial estate and the project capacity is very less i.e 15000 Tonne per annum/50 tonne per day of Cement production and environmental impact would be less.
22. **Environment Consultant:** The Environment consultant **M/s Envomin Consultant Pvt. Ltd. Bhubaneswar, Odisha** along with the proponent made a presentation on the proposal before the Committee.

23. The project proponent requested before the SEAC for exemption of public hearing for the following reason:

- i) The site is located at the IDCO industrial estate.
- ii) The project capacity is very less i.e. 15000 Tonne per annum/50 tonne per day of Cement production and environmental impact would be less.
- iii) This project will generate direct & indirect employment scopes for the local people and also increase the revenue for the state exchequer. More attention will be given to improve the socio-economic conditions in health, education, employment, roads, plantation and cultural activities.

24. The SEAC opined that there is no such provisions as per EIA Notifications 2006 and amendment thereafter for exemption of public hearing as requested by the proponent at para 23 above and the industrial Estate in which the project will be located has not obtained Environmental Clearance as per EIA Notification 2006.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Envomin Consultant Pvt. Ltd. Bhubaneswar, Odisha**, the SEAC prescribed the ToRs as per **Annexure – B** and following specific ToRs for conducting detailed EIA study.

- i) Land documents in favour of the proposed cement grinding unit to be submitted along with the land use breakup.
- ii) Agreement copies/MOU with raw material suppliers for raw materials procurements.
- iii) List of machinery equipments with capacities.
- iv) Details of Air Pollution control measures to control stack emission as well as fugitive emission to ensure PM, PM₁₀ and PM_{2.5} pollutants shall be within permissible limits.
- v) Regular health check-up of employees and proper care to be taken to prevent silicosis.
- vi) Safety measures to be followed for transportation and storage of clinker.
- vii) Provision to be kept for Electric HAG (Hot Air Generator).
- viii) Measures for quality control set up for cement.
- ix) Basic facilities shall be provided for labours working at the project site.
- x) Details of storage facility of raw materials and its conveying system to silo.
- xi) Detail mitigation programme for emission of criteria pollutants and toxicants from different unit operations and their necessary control measures shall be provided. Health risk assessment should also be included in the above study.

ITEM NO. 07

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. INFRASTRUCTURE FOR PROPOSES TO INSTALLATION OF A CEMENT GRINDING UNIT OF CAPACITY 0.015 MTP (15000 TONNE) OF PPC, OPC AND SLAG CEMENT TO BE USED AS RAW MATERIAL FOR PAVER BLOCK AND CHEQUERED TILES MANUFACTURING UNIT. THE TOTAL PROJECT AREA IS OF 0.853 ACRE LOCATED AT IDCO PLOT NO. 2/A/1 & 2/A/2 KH. NO. 1068, REVENUE PLOT NO. 37/P REVENUE MOUZA- EKATALI, DIST- JHARSUGUDA OF SRI ARUN MUNDRA – TOR (File No. SIA/OR/IND1/455736/2023)

The PP have requested to delist the proposal vide E mail on dated 19.02.2024 as they have submitted revised proposal for Terms of Reference (TOR). The Committee recommended delist the proposal.

ITEM NO. 08

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S NEW LAXMI STEEL & POWER PVT. LTD. & M/S NEW LAXMI INDUSTRY PVT. LTD FOR EXPANSION OF EXISTING IF FROM 58,700 TPA (2 X 8 T + 1X10T) TO FINAL 4,45, 500 TPA (REPLACEMENT OF EXISTING 2 X 8T WITH NEW 2 X 25T, EXISTING 1 X 10 T AND NEW 3 X 25 T) AND NO EXPANSION OF EXISTING 1,44,000 TPA ROLLING MILL, 1,20,000 TPA STRUCTURAL MILL & 29,000 TPA GALVANIZED STEEL LOCATED ADJACENT AT JAYAMANGALA, SARUA, KHORDHA OF SRI RAHUL AGRAAWAL – TOR (File No. SIA/OR/IND1/446560/2023)

The PP have requested to delist the proposal vide E mail as they have submitted revised proposal for Terms of Reference (TOR). The Committee recommended delist the proposal.


MEMBER SECRETARY, SEAC

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S RUNGTA SONS PRIVATE LIMITED OF PRODUCTION OF IRON ORE FROM 16.5 MTPA (TOTAL MATERIAL HANDLING OF 19.30 MTPA: 15 MTPA ROM IRON ORE + 1.50 MTPA LOW GRADE FROM DUMP AND OLD STACKS + 2.80 MTPA WASTE HANDLING) TO 19.7 MTPA (TOTAL MATERIAL HANDLING OF 23.064 MTPA: 17.925 MTPA ROM IRON ORE + 1.793 MTPA LOW GRADE FROM DUMP AND OLD STACKS + 3.346 MTPA WASTE HANDLING) OVER AN AREA OF 147. 10 HA. LOCATED IN VILLAGES SANINDPUR & ORAGHAT IN SUNDERGARH DISTRICT OF SRI HIRAK MAZUMDER – EC.

(I) Statutory compliance

- (i) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- (ii) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- (iii) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- (iv) This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project,
- (v) This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the project.
- (vi) Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board.
- (vii) The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- (viii) The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made thereunder in respect of lands which are not owned by it.
- (ix) The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related

to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”.

- (x) The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- (xi) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- (xii) State Pollution Control Board shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- (xiii) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and Climate Change (www.environmentclearance.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record.
- (xiv) The Project Proponent shall inform the MoEF&CC/SEIAA, Odisha for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

(II) Air quality monitoring and preservation

- (i) The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM₁₀, PM_{2.5}, NO₂, CO and SO₂ etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- (ii) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM₁₀ and PM_{2.5} are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble

chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.

(III) Water quality monitoring and preservation

- (i) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- (ii) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- (iii) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- (iv) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC / SEIAA, Odisha. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, SEIAA, Odisha, Central Ground Water Authority and Regional Director, Central Ground Water Board, State

Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

- (v) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J-20012/1 /2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
 - (vi) The project proponent shall construct retaining wall and settling pond within the lease area. Further, check dams shall be constructed at strategic locations in which rain water passes in rainy season. Finally, the excess supernatant after sedimentation shall be allowed to spill away through stone pitch structure to the nearby valley.
 - (vii) De-silting of agricultural lands in buffer zone and beyond including nearby Nalas/rivers perennially periodically and perpetually caused due to wash up of minerals/OB/dumps shall be done as per SOP submitted. A legal affidavit shall be submitted within 6 months from the date of issue of Environmental Clearance to this effect with periodicity of de-silting.
 - (viii) Detail design of the existing retaining wall and the proposed for the expansion from a chartered Civil Engineer shall be submitted within 6 months from the date of issue of Environmental Clearance to ensure that no silt after wash up is escaped from the core / buffer zone of the mines.
 - (ix) An area of 3.40Ha shall be kept for public use as pond and road. Hence, remaining 52.956Ha shall be planted during life of the mine in a phased manner i.e. within a period of 20 years.
 - (x) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office, MoEF&CC annually.
 - (xi) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated in an ETP as proposed so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
 - (xii) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board.
- (IV) Noise and vibration monitoring and prevention**
- (i) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

- (ii) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- (iii) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The worker engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

(V) Mining Plan

- (i) The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- (ii) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- (iii) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office / SEIAA, Odisha.

(VI) Land reclamation

- (i) The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height,

- width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- (ii) The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
 - (iii) The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
 - (iv) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface runoff. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
 - (v) The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha.
 - (vi) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and topsoil / OB / waste dumps to prevent runoff of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
 - (vii) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
 - (viii) The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

- (ix) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

(VII) Transportation

- (i) No Transportation of the minerals shall be allowed in case of roads passing through transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- (ii) The Main haulage road within the mine lease should be provided with a permanent water arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.
- (iii) Traffic management shall be done as per recommendation of Traffic Management Study Report.
- (iv) The Project Proponent shall provide parking plaza for the heavy vehicles within the lease area as recommendation of NEERI.

(VIII) Green Belt

- (i) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- (ii) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those

- species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- (iii) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
 - (iv) The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.
 - (v) And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.
- (IX) Public hearing and human health issues**
- (i) The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.
 - (ii) A commitment in form of an undertaking for periodical occupational health checkup of the employee and the local people shall be done through an occupational health expert as per the detailed action plan submitted with the proposal within 6 months from the date of issue of Environmental Clearance.
 - (iii) The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary

Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.

- (iv) The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x 14 inches and of good quality).
- (v) The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities, (c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.
- (vi) The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- (vii) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- (viii) The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing conducted on 09.11.2021 shall be completed

as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

- (ix) Issues raised and recorded in proceedings of public hearing w.r.t. environment / pollution / CER shall be complied by the Mining Authority as per OM F. No. 22-65/2017-IA.III, dated 30.09.2020 of MoEF&CC, Govt. of India.

(X) Corporate Environment Responsibility (CER)

- (i) The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by SEAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.
- (ii) Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office / SEIAA, Odisha.

(XI) Miscellaneous

- (i) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.
- (ii) The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (iii) The project proponent shall establish a solar power plant with 30KVA capacity within the lease area as proposed.
- (iv) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC & its concerned Regional Office, SEIAA, Odisha, Central Pollution Control Board and State Pollution Control Board.
- (v) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.
- (vi) **The proponent shall comply all the specific conditions as recommended by CSIR-NEERI on carrying capacity study (as applicable) in time bound manner as proposed.**
- (vii) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been

disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

- (viii) The project proponent shall augment infrastructure on drinking water, health care and education in nearby villages as per time bound action plan submitted.
- (ix) The project proponent shall obtain permission from DGMS under 106(2b) to carry out blasting operation within the lease area.
- (x) The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
- (xi) Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

TERMS OF REFERENCE (ToR) FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT FOR M/S. INFRASTRUCTURE UNIT TWO PROPOSES FOR INSTALLATION OF A CEMENT GRINDING UNIT OF CAPACITY 15000 TONS PER ANNUM. THE TOTAL PROJECT AREA IS OF 0.853 ACRE LOCATED AT IDCO PLOT NO. 2/A/1 & 2/A/2 KH. NO. 1068, REVENUE PLOT NO. 37/P REVENUE MOUZA-EKATALI, DIST-JHARSUGUDA OF SRI ARUN MUNDRA – TOR.

A. STANDARD TERMS OF REFERENCE (ToR)

1. Executive Summary
2. Introduction
 - i. Details of the EIA Consultant including NABET accreditation
 - ii. Information about the project proponent
 - iii. Importance and benefits of the project
3. Project Description
 - i. Cost of project and time of completion.
 - ii. Products with capacities for the proposed project.
 - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
 - iv. List of raw materials required and their source along with mode of transportation.
 - v. Other chemicals and materials required with quantities and storage capacities
 - vi. Details of Emission, effluents, hazardous waste generation and their management.
 - vii. Requirement of water, power, with source of supply, status of approval (energy balance with provision of renewable energy), material balance, water balance diagram for different purposes with water harvesting, man-power requirement (regular and contract)
 - viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided
 - ix. Hazard identification and details of proposed safety systems.
4. Site Details
 - i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.

- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet, (including all eco-sensitive areas and environmentally sensitive places).
 - iii. Co-ordinates (lat-long) of all four corners of the site.
 - iv. Google map-Earth downloaded of the project site.
 - v. Map showing sample collection location
 - vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
 - vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
 - viii. Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc. shall be included, (not required for industrial area). Land schedule and kissam of land to be furnished.
 - ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
 - x. Geological features and Geo-hydrological status of the study area shall be included.
 - xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided, (mega green field projects)
 - xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
 - xiii. R&R details in respect of land in line with state Government policy
5. **Forest and wildlife related issues (if applicable):**
- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department, (if applicable)
 - ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (*in case of projects involving forest land more than 40 ha*)
 - iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.


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- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.
- v. Certificate from the concerned DFO that the location is not within the notified Eco-sensitive Zone of Kapilash Wildlife Sanctuary and exact distance of the project location from the boundary of Kapilash Wildlife Sanctuary.
- vi. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vii. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6. **Environmental Status**

- i. Determination of atmospheric inversion level at the project site during winter and site- specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM₁₀, PM_{2.5}, SO₂, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (60m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF&CC, Govt. of India guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, Govt. of India.
- vi. Ground water monitoring minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Traffic Intensity Study for vehicular traffic to be carried out by simulation study through Operation Research (OR) Model by OR Specialist (expert).

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- xi. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xii. Socio-economic status of the study area.

7. **Impact Assessment and Environment Management Plan**

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

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planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health

- i. Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analyzed data of abovementioned parameters as per age, sex, duration of exposure and department wise.
- iii. Annual report of health status of workers with special reference to Occupational Health and Safety.
- iv. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
- v. Detail demographic survey and occupational health study of the employees working in plant and impact of cement plant on local people with appropriate remedies to avoid related diseases needs to be clearly mentioned. This should be prepared avoiding duplicacy which Govt. is doing for locality

9. Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the

- environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
 - iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report
10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
 11. Enterprise Social Commitment (ESC)
 - i. Adequate funds (atleast 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Specific Socio- economic development activities need to be elaborated upon including soil development programme.
 12. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 13. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
 14. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
 15. A tabular chart with index for point wise compliance of above TORs.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES

1. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.

J Nayak
Environmental Scientist, SEAC

2. If the raw materials used have trace elements, an Environment Management Plan shall also be included.
 3. Raw material requirement comparing with existing requirement.
 4. Land use breakup comparing with earlier land use breakup as submitted during Environmental Clearance application of existing plant.
 5. Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines must be prepared.
 6. Energy consumption per ton of clinker and cement grinding
 7. Conversion of existing land Kisam to industrial use.
 8. Detailed carbon balance / budget should be prepared.
 9. Should ensure rail transport matching to the project completion.
 10. Stations of Air and Water quality baseline study including other environmental parameters should be selected keeping in view the surrounding industries and proposed location such that only the environment parameter can be monitor specifically for the plant during operation period.
- C. THE TORS PRESCRIBED SHALL BE VALID FOR A PERIOD OF FOUR YEARS FOR SUBMISSION OF THE EIA-EMP REPORTS ALONG WITH PUBLIC HEARING PROCEEDINGS (WHEREVER STIPULATED).**