

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL  
COMMITTEE, ODISHA HELD ON 17<sup>TH</sup> NOVEMBER, 2023**

The SEAC met on 17<sup>th</sup> November, 2023 at 03:30 PM by Virtual mode (VC) through video conferencing in Google Meet under the Chairmanship of Sri Sashi Paul. The following members were present in the meeting.

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

**CONSIDERATION OF OLD PROPOSALS (COMPLIANCE RECEIVED):**

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

**ITEM NO. 01**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S SAHEJ TOWERS PVT. LTD FOR PROPOSED RESIDENTIAL BUILDING OF '7S+22' STORIED OVER AN BUILT-UP AREA 33364.526 SQM AT MOUZA- PATIA, TAHASIL- BHUBANESWAR, DIST- KHORDHA OF SRI UJJWAL SINGH - EC**

1. This proposal is for Environmental Clearance of M/s Sahej Towers Pvt. Ltd for Proposed Residential Building of '7S+22' storied over an built-up area 33364.526 sqm at Mouza- Patia, Tahasil- Bhubaneswar, Dist- Khordha of Sri Ujjwal Singh.
2. **Category:** The project falls in item 8(a) of Building and construction project as per the EIA Notification, 2006 and 2009 and subsequent amendments thereof of MoEF & CC.
3. **Project Details:** The proposed construction is a multi-storeyed Residential Building comprising of 1 no. (one) block which is of configuration 7S+22 Floors over a total plot area of 4046.86 Sqm or 1.00 Acre in favour of M/s Sahej Towers Pvt. Ltd. The multistoried residential project will be developed at Plot No-306/1813, Khata No- 474/101 in Mouza- Patia, Tahasil - Bhubaneswar of Khordha district. A finished structure of previous land owner of approx. 130 sqm builtup area is present in the plot area which will be dismantled after obtaining EC of the proposed proposal.

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*J Nayak*  
Environmental Scientist, SEAC

4. **Location and connectivity:** The proposed residential building project site is located at Plot No. 306/1813 in Khata No. 474/101, Mouza- Patia, Tahasil- Bhubaneswar, Dist- Khordha, Odisha. The location of the project area can be seen in Survey of India Topo sheet no. F45T15. The geographical co-ordinates of proposed project site is bounded between Latitude 20° 21' 16.36" N to 20° 21' 18.08" N and Longitude 85° 49' 43.97" E to 85° 49' 44.99" E. The Project site comes under Bhubaneswar Development Authority. The project site is not located within ESZ, ESA and CRZ area. The project site is connected to NH-16 at a distance of 6.5 km and Nandankanan Road at a distance of 0.2 km. The residential project is easily approachable and commercially viable as the project site is connected to an external PWD road with a road width of 24.0 m. A 60.0 m wide C.D.P road is proposed which is connected to the existing PWD road. Adjacent roads of 11.0 m wide in the western side and 7.0 m wide in the eastern side of the boundary of the proposed project is present.

5. **Area Details:**

S. No	Details of Land Use	Area in Sqm
1.	Plot Area	4046.86
2.	Net Site Area	3395.28
3.	Total Proposed FAR Area	23617.504
4.	Total Proposed Non-FAR Area	9747.022
5.	Total Built-up Area	33364.526
6.	Total Green Area	877.82
7.	Height of the Building	109.05 Mts

6. Approval from Bhubaneswar Development Authority, Bhubaneswar vide Letter No-17629/BMC, Bhubaneswar dated 13-04-2023 has been received by the project proponent.
7. NOC for water supply is obtained vide NOC No. CGWA/NOC/INF/ORIG/2023/18347, valid from 26/04/2023 to 25/04/2028.
8. **Power requirement:** The daily power requirement for the proposed residential project is assessed to be 1548.72 KW which will be fed from 800 KVA transformer (2 Nos.) and sourced from TP Central Odisha Distribution Limited .Provision of DG set having 450 KVA capacity (2 Nos.) for power back up in the residential complex proposed. Solar power contribution will be 10.3% (160 KVA) which will be generated from solar panels.

Description	Energy Required (KW)	Energy Saved (KW)	Energy Saved (KW) in %
Compact Fluorescent Lamp (CFL)	152	152	13.7
Light Emitting Diodes (LED)	78		
Conventional Street Lights	3.12	2.88	
Solar Street Light	2.88		
Electrical Water Heaters	198	58	
Solar Water Heaters	87		
Other Energy Requirements	1027.72	-	
Total Energy Requirement in Project	1548.72	212.88	

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9. **Water requirement:** The total water requirement of the project during occupational stage is 136 KLD, out of that the fresh water requirement is 83 KLD will be sourced from Bore well and the recycled water is 53 KLD.

SI. NO.	REQUIREMENT	QUANTITY (KLD)
1	Domestic Water	83
2	Flushing Water	39
3	Gardening	3.5
4	Fire,S.Pool & Others	10.5
Total		136

10. **Wastewater/STP details:** It is expected that the project will generate approx. 101 KLD of wastewater. The wastewater will be treated in onsite STP of 125 KLD capacity. The treated effluent will be reused for flushing, greenbelt and miscellaneous uses. Surplus treated effluent will be discharged to existing drain near the project site.
11. **Parking details:** The total parking required for the project is 5904.376 sqm and the total parking area provided is 7342.37 sqm. Visitor's parking provided is 734.23 sqm. In terms of ECS @ 32 Sqm: Cars 136 + E.V. Parking 70 = 206 ECS. Bike parking - 234 Nos. D.A. Parking – 2Nos.

Total parking Required @ 25% of FAR area	5904.37 Sqm
Total Parking Provided	7342.34 Sqm
First Stilt Parking (Ground Floor Parking)	911.89
Second Stilt Parking (First Floor Parking)	1101.93
Third Stilt Parking (Second Floor Parking)	1147.31
Fourth Stilt Parking (Third Floor Parking)	1145.96
Fifth Stilt Parking (Fourth Floor Parking)	990.16
Sixth Stilt Parking (Fifth Floor Parking)	1046.65
Seventh Stilt Parking (Sixth Floor Parking)	998.44

12. **Rainwater harvesting:** The total no. of rain water harvesting pits provided is 14.0 nos. and volume of rainwater to be harvested will be 78.75 Cum. Peak hourly rainfall has been considered as 140 mm/hr. The recharge pit of dimensions diameter 1.8 m and depth 3.0 m is constructed for recharging the water
13. **Fire fighting installations:** Fire fighting system will be installed as per recommendation of Odisha Fire Service Department and as per the guideline of NBC. NOC for the same is applied to and is in process.
14. **Green belt development:** Green belt will be developed over an area of 877.82 Sqm (25.85 %) of the plot area; by planting 85 nos. of the local species like *Aracaceae*, *Cupressus Sempervirens*, *Washingtonia Robusta*.

S.No.	Scientific Name	Common Name	No of Plants
1	<i>Aegle marmelos</i>	Bael	10
2	<i>Emblica officinalis</i>	Amla	10
3	<i>Azadirachta indica</i>	Neem	10
4	<i>Mimusops eleugi</i>	Maulsari	10

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5	<i>Lagerstromea parviflora</i>	Dhaura, Lendia, Bakli	10
6	<i>Syzygium cumini</i>	Jamun	10
7	<i>Adina cordifolia</i>	Kadamba	10
8	<i>Saraca indica</i>	Asoka tree	10
9	<i>Pongania pinnata</i>	Karanja	5
<b>Total</b>			<b>85</b>

**15. Solid waste management:** From the residential building the total solid waste will be about 455.0 kg/day. The generated solid waste from the residential building will be segregated as biodegradable and non-biodegradable. Proper waste management practices will be adopted during collection, storage and disposal of the generated solid waste, construction and demolition waste.

WASTE SOURCE	DISPOSAL
Garbage – 418 Kg/day	<ul style="list-style-type: none"> <li>▪ Segregation at Source &amp; Disposed properly as per SWM Rules 2016</li> <li>▪ Bio-Degradable – 250.8 Kgs/day – Organic Waste Converter</li> <li>▪ Non-Bio-Degradable – 167.2 Kgs/day – (Authorized Re-cyclers/vendors)</li> </ul>
STP Sludge – 14.14Kg/day	<ul style="list-style-type: none"> <li>▪ Which is used as manure</li> </ul>
Landscape waste -0.043	<ul style="list-style-type: none"> <li>▪ Which is used as manure</li> </ul>

**16. Project cost:** Estimated cost of the project is Rs 97.65 Crores. Environment Management Cost is Rs 64.0 Lakhs.

**Table: ENVIRONMENT MANAGEMENT - BUDGET DURING OPERATIONAL PHASE**

Sl. No	Activity	Capacity /Area/Nos.	Capital Cost (Lakhs)	Recurring Cost (Lakhs)
1	STP	125 KLD	35.0	4.0
2	Landscaping & Planting trees	80.0	3.0	0.5
3	Solid waste Management	455 Kg/Day	5.0	1.5
4	RWH Pit Installation	14.0	4.0	1.0
5	Environmental Monitoring*	Air, Water, Soil & Noise	5.0	2.0
<b>Total</b>			<b>52.0</b>	<b>9.0</b>

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17. **Environment Consultant:** The Environment consultant M/s Right source Industrial Solutions Pvt. Ltd. along with the proponent made a presentation on the proposal before the Committee on 19.06.2023.

18. The SEAC in its meeting held on dated 19-06-2023 recommended the following:

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

- i) Revised KML file showing the project area boundary.
- ii) Supporting documents regarding ownership of land with kizam of land.
- iii) Undertaking by Project proponent in Notary stamp paper that the proposed project area doesn't come under any litigation as encroachment is seen in the KML file presented.
- iv) Detailed drainage plan, internal drainage details, drainage permission with supporting documents and NOC for drainage from concerned authority.
- v) Possibility of segregation of grey water and black water and its usage for plantation and car washings thereby reduce the discharge amount of treated water.
- vi) Status of NOC/permission letter from CGWA/WR Deptt, Govt. of Odisha respectively for drawl of ground water.
- vii) Layout plan and width of road for movement of Fire Tender.
- viii) Site layout w.r.t location of DG set and Stack including calculations of stack height and its connection layout plan beyond the height of building.
- ix) Detailed break-up of solar power to be generated, consumed, including capacity of PV cell capacity, connected devices and the percentage of solar energy added total power demand.
- x) Letter approved by BMC in support of management of household waste.
- xi) There is a difference in EMP budget submitted in documents online (Rs. 64 lakhs) and presentation (capital cost – Rs. 52.0 lakhs and Rs. 9.0 lakhs as recurring cost). Which one is correct? This shall be clarified.
- xii) RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season
- xiii) Detail plan of drainage for discharging excess treated sewage water
- xiv) Source of water for use during construction phase.

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

- i) Environmental settings of the project site.
- ii) Construction activity, if any started at the site.
- iii) Road connectivity to the project site.
- iv) Drainage network at the site.

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- 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

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Revised KML file showing the project area boundary.	Revised KML file showing the project area boundary has sent to your mail I.D – <a href="mailto:seac.odisha.2019@gmail.com">seac.odisha.2019@gmail.com</a> . Pdf format of KML boundary has been attached for your reference as <b>Annexure – X</b> .
2.	Supporting documents regarding ownership of land with kizam of land.	The RoR documents regarding ownership and kizam of land has been submitted for your reference as <b>Annexure – I</b> .
3.	Undertaking by Project proponent in Notary stamp paper that the proposed project area doesn't come under any litigation as encroachment is seen in the KML file presented.	Affidavit of undertaking for no litigation has been submitted for your reference as <b>Annexure-II</b> .
4.	Detailed drainage plan, internal drainage details, drainage permission with supporting documents and NOC for drainage from concerned authority.	Drainage plan and application for permission for drainage has been applied near the authority which Ack. Copy has been attached for your reference as <b>Annexure-III</b> .
5.	Possibility of segregation of grey water and black water and its usage for plantation and car washings thereby reduce the discharge amount of treated water.	Dual plumbing design plan for the project has been attached for your reference as <b>Annexure-IV</b> .
6.	Status of NOC/permission letter from CGWA/WR Deptt, Govt. of Odisha respectively for drawl of ground water.	NOC from CGWA for withdrawal of ground water has been submitted for your reference as <b>Annexure-V</b> .
7.	Layout plan and width of road for movement of Fire Tender.	Layout plan for movement of fire tender and permission from the authority has been submitted for your reference as <b>Annexure –VI</b> .
8.	Site layout w.r.t location of DG set and Stack including calculations of stack height and its connection layout plan beyond the height of building.	Site layout with respect to location of DG set and stack has been submitted for your reference as <b>Annexure-VII</b> . The stack height is calculated as per CPCB guidelines $H = h + 0.2 \times \sqrt{KVA}$ $= 109.05 + 0.2 \times \sqrt{450 \text{ KVA}}$ $= 109.05 + 4.242 (0.2 \times 21.21)$ $= 113.29 \text{ Mts.}$ Each D.G set will be provided with 113.29 Mts height of Stack for effective

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		dispersion of pollutants.
9.	Detailed break-up of solar power to be generated, consumed, including capacity of PV cell capacity, connected devices and the percentage of solar energy added total power demand.	Detail calculation of solar power generated consumed including capacity of PV cell and percentage of solar energy used has been submitted for your reference as <b>Annexure-VIII</b> .
10.	Letter approved by BMC in support of management of household waste.	Application letter regarding management of house hold waste has been applied near the authority. The acknowledgement copy has been submitted for your reference as <b>Annexure -IX</b> .
11.	There is a difference in EMP budget submitted in documents online (Rs. 64 lakhs) and presentation (capital cost – Rs. 52.0 lakhs and Rs. 9.0 lakhs as recurring cost). Which one is correct? This shall be clarified.	Environmental management cost mentioned as 64 Lakhs in the summary. The detailed break up was given in Conceptual plan. The same was presented in project presentation.  Environmental Management budget Cost during Construction period will be 12.0 Lakhs and During Operation period 52.0 Lakhs, i.e 64.0 Lakhs.  Recurring budget allocated during construction period will be 5.5 Lakhs and 9.0 Lakhs during operational period, i.e 14.5 Lakhs.
12.	RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season	RL of the bottom of the rain water discharge pit and RL of the ground water table during rainy and summer season have been submitted for your reference as <b>Annexure -XI</b> .
13.	Detail plan of drainage for discharging excess treated sewage water	Revised plan of drainage for discharge excess treated sewage water has been submitted for your reference as <b>Annexure-III</b> .
14.	Source of water for use during construction phase.	During construction phase the water will be sourced by tanker as mentioned in the conceptual plan.

20. The proposed site was visited by the sub-committee of SEAC on 21.09.2023. Following are the observations of the sub-committee:

- Project proponent and consultant representative were present and explained the lay out plan.
- It was observed that there were previous construction activities in the land. Of which almost 50% of the prior construction were demolished and 50% are still remaining. The party is asked to demolish the entire structure.

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- c) The Project site is located near the Patia railway station road adjacent to KIIT square. The land is connected to above road which is around 25m in northern side. One sub road is there also in the western side of the plot.
- d) There is a municipality drain running in between the road and designated plot. Around 10 ft width of entire stretch of northern side land (from the drain to land) does not belong to the proponent. The PP has explained that they have applied to the concerned authority for handing over the land to the party. Without which discharge of drainage water may not be possible. Hence, the party is asked to provide necessary permission letter from the concerned authority for further consideration.
- e) The party is advised to submit the detail lay out plan for internal drainage system and discharge of drainage point. The PP may be asked to submit document/permission for the drainage connection from the appropriate Govt. authority.
- f) The proposed construction is having 07 stilt and 22 residential floors, almost 29 storied. Hence, a structural stability certificate from BDA should be submitted.
- g) High-rise buildings normally affect the thermal environment due to heat island effect. It is suggested PP may conduct a study on this aspect and bring out possible remedial measures.
- h) The traffic study vetted by a reputed institute is to be submitted.
- i) In regards to green belt few plantations are there, but more plantations are required to meet the standard.
- j) All other points covered during presentation are to be complied.

After detailed discussion, the SEAC decided to take the decision on the proposal after receipt of the following from the proponent:

- a) There is a municipality drain running in between the road and designated plot. Around 10 ft width of entire stretch of northern side land (from the drain to land) does not belong to the proponent. The PP has explained that they have applied to the concerned authority for handing over the land to the party. Without which discharge of drainage water may not be possible. Hence, the party is asked to provide necessary permission letter from the concerned authority for further consideration. **In case the land (10ft width) belongs to private owners, POA or ownership of land for passage of drain should be obtained and submitted in addition to permission from authority to discharge excess treated water.**
- b) Structural stability certificate from BDA should be submitted.
- c) Traffic study vetted by a reputed institute is to be submitted.
- d) As construction is still there as per site visit report, KML file after complete demolition to be submitted.
- e) Status of Airport Authority of India Clearance.



**ITEM NO. 02**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S TESKO HOTELS & MALLS INFRAPROJECTS PVT. LTD. FOR COMMERCIAL HOTEL BUILDING B+S+9 STORIED OVER A BUILT-UP AREA 36830.99 SQM LOCATED AT MOUZA -CHANDRASHEKHARPUR, TAHASIL-BHUBANESWAR, KHORDHA OF SRI ANUP LAKHOTIA - EC**

1. This proposal is for Environmental Clearance of M/s Tesko Hotels & Malls Infra projects Pvt. Ltd. for Commercial Hotel Building B+S+9 storied over an built up area 36830.99 sqm located at Mouza - Chandrashekharapur, Tahasil- Bhubaneswar, Khordha of Sri Anup Lakhotia.
2. **Category:** This project falls under Category "B", Project or Activity 8(a) Building and Construction projects as per EIA Notification dated 14th Sep, 2006 as its amendments.
3. **Project details:** M/s Tesko Hotels & Malls Infra Projects Pvt. Ltd is proposing the Commercial cum Hotel Building project in the Plot Area of 12140.6 sqm.
4. **Airport clearance:** Airport NOC was obtained with NOC ID : BHUB/EAST/B/030223/ 744292, Dt.28.03.2023.
5. **Location and Connectivity:** The proposed site is located at Plot No - 321 (C/2), Khata No- 619 of Mouza - Chandrashekharapur, Tahasil - Bhubaneswar, District – Khordha, Odisha. The Geographical co-ordinates of the project site is Latitude 20° 19' 21.76" N to 20° 19' 16.00" N and Longitude 85° 48' 05.56" N to 85° 48' 02.24" E. The area comes under Survey of India Toposheet No: F45T15. The project site is connected with National Highway NH-16 towards South at a distance of 4.0 km. Bhubaneswar town is located at a distance of 3.8 km. The nearest Railway station is Bhubaneswar Railway station at a distance of 7.5 km, SE direction from project site. Biju Patnaik Airport is at 7.0 km (South). Bhubaneswar Fire Station is located at a distance of 4.7 km.
6. **Built Up Area Details:** Plot Area is 12140.60 Sqm. Total Proposed FAR Area is 22196.78 Sqm. Total Built-up Area is 36830.99 Sqm. Green Area is 1672.72 Sqm. Height of the Building is 39.83 Mts. No. of Blocks is 1 Block with B+ S+9 Floors. No. of Rooms is 123.

S. No	Details of Land Use	Area in Sqm
1.	Plot Area	12140.60
2.	Total Proposed FAR Area	22196.78
3.	Total Proposed Non-FAR Area	14,634.21
4.	Total Built-up Area	36830.99
5.	Total Green Area	1672.72
6.	Height of the Building	39.83 Mts

7. **Parking Area:** Parking Required as per BDA: (40% of Proposed F.A.R) = 8878.71 Sqm. Provided Parking area is 11045.82 Sqm. In terms of ECS @ 32 Sqm : Cars 345 + Bike parking – 115 Nos.
8. **Water Requirement:** The total water requirement of the project during occupational stage is 110 KLD. Domestic Water required is 104 KLD. Flushing Water will be 39.0 KLD. No Objection Certificate for Ground Water Abstraction was obtained with NOC from CGWB with NOC No. CGWA/NOC/INF/ORIG/2023/17946. Dt.15.03.2023 Valid up to 14/03/2028.

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Domestic Water Requirement	143.0 KLD
Fresh water	104.0 KLD
Flushing water	39.0 KLD
Waste Water Generated (@ 80% fresh water + 100% flushing water)	83 +39 =122 KLD
STP Capacity Provided (at 1.2 times of W.W generated)	150 KLD
Treated waste water from STP (@90%)	110 KLD

9. **Waste water generation and management:** Waste water generation is 122 KLD which will be treated in STP of capacity 150 KLD proposed to be constructed at the site. Treated water from the STP will be used for flushing and horticulture purpose. STP will be provided with MBBR Technology

10. **Solid Waste Management:** Total solid waste generation will be 460 Kg/Day. Garbage will be 442.5 Kg/Day in which Biodegradable Waste 265.5 Kg/Day @ 60% will be treated in In-house Organic Waste Converter and Non-Biodegradable waste 177Kg/Day @ 40% will be Sent to Authorized Vendors as per SWM Rules 2016. Landscape waste will be 0.083 Kg/Day. STP Sludge generation will be 17.08 Kg/day.

WASTE SOURCE	DISPOSAL
Garbage – 442.5 Kg/day	<ul style="list-style-type: none"> <li>▪ Segregation at Source &amp; Disposed properly as per SWM Rules 2016</li> <li>▪ Bio-Degradable – 265.5 Kgs/day – Organic Waste Converter</li> <li>▪ Non-Bio-Degradable – 177 Kgs/day – (Authorized Re-cyclers/vendors)</li> </ul>
STP Sludge – 17.08 Kg/day	<ul style="list-style-type: none"> <li>▪ Which is used as manure</li> </ul>
Landscape waste -0.083	<ul style="list-style-type: none"> <li>▪ Which is used as manure</li> </ul>

11. **Rainwater Harvesting:** Rain Water will be harvested through 10 nos. of Rain Water recharging pits.

Rainwater Harvesting				
Type of Area	Area (in m <sup>2</sup> )	Coefficient of run-off	Peak rainfall intensity during one hour of rainfall (in m)	Rain water harvesting potential/hour (in m <sup>3</sup> )
Roof-top area	4856.59	0.95	0.140	645.93
Green Area	1672.72	0.10	0.140	23.42
Total storm water load on the site with per hour retention is				669.35

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Considering 15 minutes retention time, total storm water load	167.34
Taking the radius as 1.5 m and effective depth as 3.0 m , volume of a RWH pit ( $\pi r^2h$ )	21.87
Hence no. of pits required in approx = Total storm water load considering 15 minutes retention time / Volume of a RWH pit	8 nos. required and provided 10nos.

12. **Power Requirement:** The total consolidated electrical load estimate for proposed project is about 1628.8 Kw. Power backup in case of grid failure will be by 2 nos. of DG sets of 1010 KVA and 1250 KVA (1) capacities.
13. **Solar Power Generation:** Solar power generation is 89 KVA PV solar panels. This will be utilized for solar assisted water heating system.

**Table: Energy savings**

Description	Energy Required (KW)	Energy Saved (KW)	Energy Saved (KW) in %
Compact Fluorescent Lamp(CFL)	152	152	13.0
Light Emitting Diodes (LED)	78		
Conventional Street Lights	3.12	2.88	
Solar Street Light	2.88		
Electrical Water Heaters	198	58	
Solar Water Heaters	87		
Other Energy Requirements	1027.72	-	
Total Energy Requirement in Project	1628.8	212.88	

14. **Green Belt Development:** Green belt will be developed over an area of 1672.72 Sqm (13.77 %) of the plot area by planting 152 nos. of plant species like Neem, Bel, Gooseberry, Acacia, Chakunda etc.
15. **Firefighting Arrangements:** The height of the building is upto 39.83 mts. Fire Extinguisher, First Aid Hose Reel, Wet Riser, Yard Hydrant, Automatic Sprinkler System, Manually operated Electronic Fire Alarm System, Underground Static Water Tank, Overhead Tank will be provided as safety measures in the building block. Internal road of 6.0 mt width has been demarcated for movement of fire vehicle. Fire NOC recommendation issued with number RECOMM1204130052023001248, Dt.05.06.2023.
16. **Traffic Study:** Traffic Composition after development of the project will be good. Traffic study report was prepared by School of Civil Engineering, KIIT Deemed to be University, Bhubaneswar.
17. **Project cost:** The project cost is estimated to be Rs. 98.80 Crores and there is a budgetary provision of Rs.12 Lakhs as capital cost and Rs.7.0 Lakhs as recurring cost during construction

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phase and Rs.59 Lakhs as capital cost and Rs.10.0 Lakhs as recurring during operational phase towards environmental protection measures.

**Table: EMP budget during operational phase**

S.No	Activity	Capacity /Area/Nos.	Capital Cost (Lakhs)	Recurring Cost (Lakhs)
1	STP	150 KLD	40.0	4.0
2	Landscaping & Planting trees	152	6.0	2.0
3	Solid waste Management	460 Kg/Day	4.0	1.0
4	RWH Pit Installation	10.0	4.0	1.0
5	Environmental Monitoring	Air, Water, Soil & Noise	5.0	2.0
Total			59.0	10.0

18. **Environment Consultant:** The Environment consultant **M/s Right source Industrial Solutions Pvt. Ltd. Hyderabad** along with the proponent made a presentation on the proposal before the Committee.

19. The SEAC in its meeting held on dated 05-07-2023 recommended the following:

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

- a) Details of width of fire corridor, service road, DG space etc.
- b) Possibility to explore separate ramps for entry and exit in parking area. Further, separate parking area for Hotel and Mall shall be explored.
- c) Detailed drainage plan, internal drainage details, discharge point, drainage permission with supporting documents applied for NOC for drainage from concerned authority.
- d) Certificate from the concerned DFO that location is not coming within Notified Eco-Sensitive Zone of Chandaka-Dampada Wildlife Sanctuary.
- e) Detailed calculation of greenbelt with breakup and dimensions and provision to increase the greenbelt minimum up to 20% as the proposal for 13% greenbelt is not acceptable.
- f) Ensure that the differences between the reduced level of the bottom of rainwater harvesting pits and the reduced level of ground water during rainy season are adequate for effective recharge of collected rainwater and submit the report for the same.

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

- i) Environmental settings of the project site.
- ii) Construction activity, if any started at the site.
- iii) Road connectivity to the project site.

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*J Nayak*  
Environmental Scientist, SEAC

- 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.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Details of width of fire corridor, service road, DG space etc.	The width of Fire Corridor is 6 meter and service road is also 6 meter. The location of DG space has shown in the drawing has been attached for your reference as <b>Annexure -I.</b>
2.	Possibility to explore separate ramps for entry and exit in parking area. Further, separate parking area for Hotel and Mall shall be explored.	We have separated the entry and exit in parking area for hotel guests, visitors and service which has been shown in the drawing has been attached for your reference as <b>Annexure -I.</b>
3.	Detailed drainage plan, internal drainage details, discharge point, drainage permission with supporting documents applied for NOC for drainage from concerned authority.	Detailed drainage plan with discharge point has been attached for your reference as <b>Annexure-II.</b>
4.	Certificate from the concerned DFO that location is not coming within Notified Eco-Sensitive Zone of Chandaka-Dampada Wildlife Sanctuary.	NOC from the DFO, Chandaka Wild Life Division has been attached for your reference as <b>Annexure-III.</b>
5.	Detailed calculation of greenbelt with breakup and dimensions and provision to increase the greenbelt minimum up to 20% as the proposal for 13% greenbelt is not acceptable.	Revised calculation of greenbelt with breakup has been attached for your reference as <b>Annexure-IV.</b> Total Plot area - 12140 Sq.m. Required Greenbelt @ 20% - 2428Sq.m. Proposed Greenbelt area- 2472.94 Sq.m. (@20.37%)
6.	Ensure that the differences between the reduced level of the bottom of rainwater harvesting pits and the reduced level of ground water during rainy season are adequate for effective recharge of collected rainwater and submit the report for the same.	The ground water level of RWH pit of rainy season and non – rainy season has been attached for your reference as <b>Annexure-V.</b>

21. The proposed site was visited by the sub-committee of SEAC on 08.08.2023. Following are the observations of the sub-committee:

- a) PP and Environment Consultant were present at site and explained the project layout.
- b) No construction work started at the site.

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*J Nayak*  
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- c) The site was having road at the both front and back side. The road at the entry side is the sub road having width of about 30 ft only. Although 200 ft road goes in front of it, but the same is connected at a distance and there is no direct access from the frontage of the site.
- d) Since the project is pure commercial, they were asked to show the provisional BDA approval, fire clearance etc. which they could not as they are yet to apply. Thus, the PP needs to submit the following documents before considering for EC: BDA provisional approval, Fire NOC, BMC NOC to connect the extra treated water to the adjacent drain, airport authority NOC, Firefighting measures provisions, Ground water permission.
- e) There is a high-tension tower situated at one corner, thus permission if required to be obtained from appropriate authority and submitted.
- f) Stack position to be placed in a manner to avoid smoke to the neighbouring hospital and residential community
- g) Information sought during presentation with regard to green belt, parking plan, DFO permission etc. need to be submitted.

After detailed discussion, the SEAC decided to take the decision on the proposal after receipt of the following from the proponent:

- a) BDA provisional approval letter, NOC from BMC to connect the extra treated water to the adjacent drain.
- b) There is a high-tension tower situated at one corner, thus permission if required to be obtained from appropriate authority and submitted.

**ITEM NO. 03**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. LAXMI INFRA VENTURE (P) LTD FOR PROPOSED S1+S2+S3+10 FLOORS (BLOCK-A & B) AND S1+S2+S3+18 FLOORS (BLOCK-C & D) MULTI-STORIED RESIDENTIAL APARTMENT BUILDING (MIG CATEGORY), OVER PLOT NO-2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866, OVER AN BUILT-UP AREA -38015.17 M2 KHATA NO-1330/9654 MOUZA-PANDARA, BHUBANESWAR, DIST-KHURDHA BY GPA HOLDER M/S. LAXMI INFRA VENTURES PVT. LTD. REPRESENTED BY SRI RAJESH KUMAR NAYAK - EC**

1. This proposal is for Environmental Clearance of M/s. Laxmi Infra Venture (P) Ltd for Proposed S1+S2+S3+10 floors (Block-A & B) and S1+S2+S3+18 floors (Block-C & D) Multi-storied Residential Apartment building (MIG Category), over Plot No-2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866, over an Built-up Area – 38015.17 m<sup>2</sup>, Khata no-1330/9654 Mouza-Pandara, Bhubaneswar, Dist- Khurdha by GPA Holder M/s. Laxmi Infra Ventures Pvt. Ltd. represented by Sri Rajesh Kumar Nayak.
2. **Category:** As per EIA Notification 2006 and subsequent amendment, the proposed project falls under Category B under Item 8(a) Building and Construction projects.
3. The proposed project has been approved by Bhubaneswar Municipal Corporation vide letter no 57693 dated 09.12.2022.

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*T. Nayak*  
Environmental Scientist, SEAC

4. Statutory clearances:

S.No.	Particulars	Letter No. / Application No.
1.	Fire Safety Recommendation No. Application No.	RECOMM1204130012023001025 FSR1204130012023000004
2.	NoC from TPCODL	TPCODL letter No. 4308 on dated 07th 2022
3.	NoC for Own Water Supply & Sewerage Connection System	PHD Division, Bhubaneswar letter no. 176 on dated 07/01/2023
4.	Height Clearance NoC from AAI	BHUB/EAST/B/102121/629810
5.	NoC for Ground Water Abstraction	CGWA/NOC/INF/ORIG/2023/18149 on dated 11/04/2023
6.	Approval letter from BMC	BP-BMC-2022-06-21-004957 Letter No-57693/dated 19/09/2022
7.	Structural Stability Certificate	Registration no. RTP/DTP(ST.ER)- 092/2018 Valid upto 10/05/2024
8.	Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur Distributary, Mouza - Pandra for access to Plot No. 2807, 2808, 2810, 2798, 2799 over Sabak Khata No. 426, Hal Khata No. 297 Mouza - Pandra, Tahallil - Bhubaneswar,	Letter no. -6908/we on dated 27/11/2019

5. **Location and connectivity:** The area is located in Survey of India Topo sheet No. F45T15 bearing Plot No-2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866, Khata no-1330/9654. Geographical coordinates for the project site are latitude of 20°18'15.37N and longitude - 85° 52' 28.11"E. The kism of the plots are Ghrabari. The project site is at a distance of 5.2 Km-W from NH-16/AH-45, 1.20 Km -E from Nandankanan Road. Site is flat land with average elevation of 20-21m AMSL. Project site is well connected with New Hitech Road which connects to NH-16 at the distance of 62 m. North direction. Proposed project site also connects to NH-316 (Bhubaneswar-puri Highway) at Pandara Square about 1.3 km-SW to the project site. Vanivihar Railway station is 2.55 Km - SSW away from Project site. Mancheswar Railway Station is 3.61 km away in North-West. Bhubaneswar railway station is 5.27 km away in South-West. Biju Patnaik International Airport 8.34 km in South West. Nearest water body is Gangua Nala at 0.24km. Nearest assess to building as per the plan, the proposed building abuts on a road of width 12.19 mtrs. at front side of the proposed building, which shall be made as per Rule-31 of Odisha Development Authorities (Planning and Building Standards) Rules, 2020. Besides, a culvert has been shown in the proposed building plan, the same shall be of width 12 mtrs for access to the premises.
6. The project falls under seismic zone-III as per IS1893 (Part-1):2002 indicating Moderate to lower damage risk zone. The buildings will be designed as earthquake resistant and comply with the required IS specifications.

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*J Nayak*  
Environmental Scientist, SEAC

7. Area details: Plot area of project is estimated to be 7104.23 sqm, or 1.755 Acres or 0.7104 Ha. & the Built up Area is estimated to be 38015.17 sqm.

<b>AREA STATEMENT</b>	
<b>Particulars</b>	<b>Area (in m<sup>2</sup>)</b>
TOTAL PLOT AREA	7104.23
Ground Coverage Required(40% of plot area)	2841.7
Area Of Ground Coverage Achieved (39.83% of plot area)	2829.75
<b>STILT FLOOR-1</b>	
BUILT UP AREA	2781.93
EXEMPTION AREA (FIRE TOWER)	129.24
STILT FLOOR-1 AREA FOR FAR	2652.69
BLOCK-A,B,C & D SERVICES AREA (EXEMPTION AREA IN PARKING)	36.46
STILT FLOOR-1 PARKING AREA	2616.23
<b>STILT FLOOR-2</b>	
BUILT UP AREA	2781.93
EXEMPTION AREA (FIRE TOWER)	129.24
STILT FLOOR-2 AREA FOR FAR	2652.69
BLOCK-A,B,C & D SERVICES AREA (EXEMPTION AREA IN PARKING)	81.62
STILT FLOOR-2 PARKING AREA	2571.07
<b>STILT FLOOR-3</b>	
BUILT UP AREA	2688.11
EXEMPTION AREA (FIRE TOWER)	129.24
STILT FLOOR-3 AREA FOR FAR	2558.87
BLOCK-A,B,C & D SERVICES AREA RAMP & SOCIETY AREA(EXEMPTION AREA IN PARKING)	264.55
STILT FLOOR-3 PARKING AREA	2294.32
NET FAR AREA (BLOCK -A)	3836.36
NET FAR AREA (BLOCK -B)	4811.13
NET FAR AREA (BLOCK -C)	9503.97
NET FAR AREA (BLOCK -D)	10194.6
TOTAL NET FAR AREA(including stilt floor-1,2 &3 service area)	28346.06
<b>GRAND TOTAL B.U.A</b>	<b>38015.17</b>
FAR	3.99
Total No Of Dwelling Units	223
NO Of Recharge pit(Required)	21
NO Of Recharge pit(provided)	25
Plantation Required @1 Tree Per every 80sqm of plot area	109
SOCIETY AREA (REQUIRED)	223
SOCIETY AREA (PROVIDED)	231.37

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8. **Water requirement:** Total water requirement of the project is expected to be 180 KLD approximately; out of which fresh water requirement is 120KLD. Domestic: 120 KLD and Flushing: 60 KLD. The source of water is PHED for which PP has obtained No objection certificate from PHD, Bhubaneswar vide letter no. 176 on dated 07.01.2023. There is also provision for groundwater for standby for which PP has applied to CGWB and got the NOC from CGWB vide NOC no. CGWA/NOC/INF/ORIG/2023/18149 with Date of Issuance: 11/04/2023 which is valid up to 10/04/2028.
9. **Waste water generated and its management:** The total waste water generated is 144KLD which will be treated in STP of capacity 160KLD. Treated water recovered is 115KLD which will be used in Gardening – 40KLD, DG Set cooling – 15KLD and 60 KLD in Flushing water. The PP has mentioned there is a provision for zero discharge concept in Dry season.
10. For Rainy season, the fresh water requirement of 120 KLD will decrease from 120 KLD to 30 KLD by availing it from roof top storm water collection - 90KLD and 30KLD from Bore well/supply water. Discharge to nearest Drain will be 40 KLD.
11. **Greenbelt:** About 100 trees of 8 types of species (Neem, Peepal, Mango, Shisham, Sirish, Babool, Gulmohar or local plants as per the advice of forest officers) will be planted both inside the project area and all along the boundary to create a boundary of greenery.

Area Component	Area in Sqm
Total Plot area (sqm)	7104.23
Green area required@ 20 % of Plot area (sqm)	1,420.84
Green area provided@ 22.43% of Plot area (sqm)	1952.35
Required number of trees @ 1 tree per 80 sq.m. of plot area	89 trees
Number of trees Proposed (No. of trees planted in around the road and peripheral boundary line)	110

12. **Solid waste management :** The solid waste generated from project will be mainly domestic in nature and the quantity of the waste will be 0.614 Ton/day. Solid wastes generated will be segregated into biodegradable 0.246 T/Day (waste vegetables and foods etc.) and Non-biodegradable or recyclable 0.368 Ton/day (papers, cartons, thermo-col, plastics, glass etc.) Components will be collected in separate bins. The biodegradable organic wastes will be treated inside the premises by OWC (Organic Waste Converter) of capacity to treat 250 kg/day. Recyclable and non-recyclable wastes will be disposed through Govt. approved agency
13. **Power requirement:** The power supply shall be supplied by TPCODL. The maximum demand load is estimated at 1341 KW or 1578 KVA. Permission for Electrical supply to the proposed project site is received from office of the Divisional Manager (Electrical) through Letter No:-4308 on dated 07/---/2022. There is provision of Power backup for the residential project will be through DG sets of total capacity. 1 Nos. 250KVA+1 Nos. 320 0KVA, 415Volts DG Sets with acoustic enclosure with DG Synchronisation with DG Set Stack of 65 m.

14. **Solar energy details:**

Total Connected Load in kW	1734.2 KW
Solar Power Required in kW @ 5% of the Connected Load	86.7KW

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Solar Power In kW to be generated by Roof Top Solar Panels	87KW
No. of Solar panels required (300W to 400W capacity)	62NOS
<b>SUGGESTED SOLAR SYSTEM: 62 Nos. of Solar Panels suitable for 87 KW LOAD</b>	

15. **Waste management:** Around 2 KLD effluent will be generated which will be treated in septic tank followed by soak pits. 27 kg/day solid waste (peak) will be generated during construction phase and will be disposed through waste handling agency.
16. **Rain water harvesting** - 10 nos of recharge pits for collection of storm water at selected locations will be provided, which will catch the maximum surface run-off water and roof water and will be stored in a storage tank having capacity of 90 m<sup>3</sup>.
17. **Parking details:**

Facilities	Area in Sqm
Parking Area Required( 25% Of B.U.A)	7086.51
Parking Area (Provided)	7332.82
Covered Parking(In Stilt Floor-1 (Block-A+B+C+D)	2616.23
Covered Parking(In Stilt Floor-2 (Block-A+B+C+D)	2571.07
Covered Parking(In Stilt Floor-3 (Block-A+B+C+D)	2294.32
Stack Parking	103.5
Open Parking	458.35
Visitor's Parking Required@10% Of Total Parking)	708.64
Visitor's Parking (Provided)	710.65
Electric Charging Point(Required @30% Of Total Parking)	2413.04
Electric Charging (Provided)	2400
Total parking Area (Provided)	8043.47
Total Car Parking No.S (Provided)	250
Total Bike Parking No.S (Provided)	175

18. **Project cost:** Estimated cost of the project is 76.50 Cr. EMP Capital Cost is 91 Lakh and Recurring Cost /Annum is 3.1 Lakh

**Table: EMP cost**

Source	Capital Cost (In Lacs)	Recurring Cost (In lacs)
Landscaping	10	0.5
Rain Water Harvesting	10	0.2
Solid Waste Management	8	0.5
STP	50	1.2
Acoustic Enclosure & DG Set Stack	10	0.2
Environmental Monitoring	3	0.5

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Source	Capital Cost (In Lacs)	Recurring Cost (In lacs)
Total	91	3.1

19. **Environment Consultant:** The Environment consultant M/s **Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee on 13.06.2023.

A. The SEAC in its meeting held on dated 13-06-2023 recommended the following: The proponent may be asked to submit the following for further processing of EC application:

- Permission letter for constructing approach road bridge over Prachi Canal for transportation.
- Permission from BMC to use nearest public drain to discharge treated water.
- Undertaking by the Project Proponent to use PHED water when available to the area and extraction of water from groundwater should be minimal.
- Relook at the possibility to increase parking area as per the parking norms and calculation of parking area should be given in percentage as well as area wise.
- Details of solar power generation and consumption.
- Relook at the water discharge calculation.
- Revisit the water balance for Dry season as there is deficit of 29KLD and according to the Project Proponent in dry season a Zero Liquid Discharge concept will be obtained.
- RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.
- Detail plan of drainage for discharging excess treated sewage water.
- Source of water for use during construction phase.

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

- Environmental settings of the project site.
- Construction activity, if any started at the site.
- Road connectivity to the project site.
- Drainage network at the site.
- Discharge point for discharge of treated water and distance of the discharge point from the project site.
- Any other issues including local issues.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Permission letter for constructing approach road bridge over Prachi Canal for transportation.	Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur Distributary, Mouza - Pandra for access to Plot No. 2807, 2808, 2810, 2798, 2799 over Sabik Khata No.

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*J Nayak*  
Environmental Scientist, SEAC

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		426, Hal Khata No. 297 Mouza - Pandra, Tahalil – Bhubaneswar. Permission letter no: 6908/we on dated 27/11/2019 is attached as Annexure- (a).
2.	Permission from BMC to use nearest public drain to discharge treated water.	We already received of NOC for Water Supply & Sewerage Connection to the proposed Block-(A) SI+S2+S3+10, Block (B) SI+S2+S3+10, Block (C)SI+S2+ S3+18, Block (D)SI+S2+S3+18 Multi storied residential apartment building (MIG Category) over Plot No. 2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866 & Khata No. 1330/9654 in Mouza: Pandara, Bhubaneswar from Office of the Superintending Engineer PHD,BBSR vide letter no. 176 Dated 07/01/2023 which is attached as Annexure (b).
3.	Undertaking by the Project Proponent to use PHED water when available to the area and extraction of water from groundwater should be minimal.	The water requirement of 120 KLD will be supplied by PHED) water supply system. Presently there is no municipal (PHED) water supply system located near our project site. There will be no provision of sourcing the same from any other Supply water/surface water body. Hence we will meet the daily fresh water requirement through ground water during the operation phase. We got the no objection certificate from PHD, Bhubaneswar vide letter no. 176 on dated 07.01.2023. We applied to CGWB for ground water and finally we got the NOC from CGWB vide NOC no. CGWA/NOC/INF/ORIG/2023/18149. We will use PHED water when available to the area and extraction of water from groundwater should be minimal. Undertaking is attached as Annexure-C.
4.	Relook at the possibility to increase parking area as per the parking norms and calculation of parking area should be given in percentage	Parking area provided as per ODA Norms. Parking layout as per are attached as Annexure-(d). FACILITIES AREA IN

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent.																														
	as well as area wise.	<table border="1"> <thead> <tr> <th></th> <th>SQM</th> </tr> </thead> <tbody> <tr> <td>Parking Area Required( 25% OF B.U.A)</td> <td>7086.51</td> </tr> <tr> <td>Parking Area (Provided)</td> <td>7332.82</td> </tr> <tr> <td>Covered Parking(In Stilt Floor-1 (Block-A+B+C+D)</td> <td>2616.23</td> </tr> <tr> <td>Covered Parking(in stilt floor-2 (block-A+B+C+D)</td> <td>2571.07</td> </tr> <tr> <td>Covered Parking(in stilt floor-3 (block-A+B+C+D)</td> <td>2294.32</td> </tr> <tr> <td>Stack Parking</td> <td>103.5</td> </tr> <tr> <td>Open Parking</td> <td>458.35</td> </tr> <tr> <td>Visitor's Parking Required@10% OF Total Parking)</td> <td>708.64</td> </tr> <tr> <td>Visitor's Parking (provided)</td> <td>710.65</td> </tr> <tr> <td>Electric Charging Point(Required @30% of Total Parking)</td> <td>2413.04</td> </tr> <tr> <td>Electric Charging (Provided)</td> <td>2400</td> </tr> <tr> <td>Totalparking Area (Provided)</td> <td>8043.47</td> </tr> <tr> <td>Total Car Parking No.S (Provided)</td> <td>250</td> </tr> <tr> <td>Total Bike Parking No.S (Provided)</td> <td>175</td> </tr> </tbody> </table>		SQM	Parking Area Required( 25% OF B.U.A)	7086.51	Parking Area (Provided)	7332.82	Covered Parking(In Stilt Floor-1 (Block-A+B+C+D)	2616.23	Covered Parking(in stilt floor-2 (block-A+B+C+D)	2571.07	Covered Parking(in stilt floor-3 (block-A+B+C+D)	2294.32	Stack Parking	103.5	Open Parking	458.35	Visitor's Parking Required@10% OF Total Parking)	708.64	Visitor's Parking (provided)	710.65	Electric Charging Point(Required @30% of Total Parking)	2413.04	Electric Charging (Provided)	2400	Totalparking Area (Provided)	8043.47	Total Car Parking No.S (Provided)	250	Total Bike Parking No.S (Provided)	175
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5.	Details of solar power generation and consumption.	<p><b>SOLAR PANEL SIZING (IN KW) AND SOLAR POWER GENERATION.</b></p> <p>The Solar Power Demand For Campus area Light , Main Gate Light will be 87 KW (5% of total demand)</p> <p>SUGGESTED UPS FOR EMERGENCY LIGHTING : 1 x 8KVA, 1Phase Input / 1Phase Output with 90 Minutes backup</p> <p>Selection of SOLAR SYSTEM: Total Connected Load in Kw:-1734.2 KW</p> <p>Solar Power Required in kW @ 5% of the Connected Load 86.7 KW</p>																														

Proceedings of the SEAC meeting held on 17.11.2023 (Old proposals – compliance received)

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		Solar Power In kW to be generated by Roof Top Solar Panels 87KW No. of Solar panels Required (300W to 400W capacity) : 62 NOS SUGGESTED SOLAR SYSTEM : 62 Nos. of Solar Panels suitable for 87 KW load
6.	Relook at the water discharge calculation.	Total water requirement of the project is expected to be 180 KLD approximately; Domestic: 120 KLD (source: rain water harvesting-90 KLD and 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. <b>Reuse of treated waste water (Zero discharge norms will be followed during dry season)</b> Flushing: 60 KLD Greenbelt : 40 KLD During rainy season Fresh water requirement will be decreases from 120 KLD to 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. <b>Only 40 KLD of treated water will be discharge to nearest Drain.</b>
7.	Revisit the water balance for Dry season as there is deficit of 29KLD and according to the Project Proponent in dry season a Zero Liquid Discharge concept will be obtained.	As per NBC the quantity of waste water generate from dwelling units and other facilities should be 80 to 90% of the raw water. So that the waste water recovered after treatment is 115 KLD. Total water requirement of the project is expected to be 180 KLD approximately; Domestic: 120 KLD (source: rain water harvesting-90 KLD and 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. <b>Reuse of treated waste water (Zero discharge norms will be followed during dry season)</b> Flushing: 60 KLD

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		Greenbelt : 40 KLD During rainy season Fresh water requirement will be decreases from 120 KLD to 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. Only 40 KLD of treated water will be discharge to nearest Drain.
8.	RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.	As per the soil testing report, the water level depth is given below In BH NO-01:-2.30m, BH NO-02: 2.40m, BH NO-03:2.40m and BH NO-04:2.35 m As per India-WRIS, The water level of the project area during pre-monsoon -5.14 mbgl, post monsoon:-3.72 mbgl and during monsoon -2.2 mbgl Annual average water level is 3.71 mbgl.  The Capacity of the recharge pit is designed to retain runoff from at least 15 minutes rainfall of peak intensity. (10 recharge pit will be required having capacity of 6 cum according to CGWB norms.  Drawing and design report for excess treated waste water and storm water has been approved by EIDP, Bhubaneswar. attached as Annexure- (h)
9.	Detail plan of drainage for discharging excess treated sewage water.	Drawing and design report for excess treated waste water and storm water has been approved by EIDP, Bhubaneswar attached as Annexure- (h)
10.	Source of water for use during construction phase.	

21. The proposed site was visited by the sub-committee of SEAC on 21.08.2023. Following are the observations of the sub-committee:

- a) PP and consultant team were present and explained the layout.
- b) There are no construction activities undertaken at project site.
- c) The site is connected with a public road on prachi canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that the land between Project site and Gangua nallah is not part of the project site. PP has

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to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.

- d) The PP has to submit the layout showing the drainage network starting from building site to natural nallah. The drain design needs to be prepared and approved by appropriate authority considering the data of RLs of bottom of drain at strategic locations and invert level of natural nallah, the run off calculations during highest rain fall, so that the area is not flooded with rain water during heavy rainfall. The maximum ground water level vs proposed ground level, the parking area, RWH etc. (after construction) needs to be considered taking into account the maximum rainfall of the area for adequate structural stability
- e) PP need to submit the documents in support of building approval application, Fire NOC / recommendations, firefighting provisions and fire corridor.

After detailed discussion, the SEAC decided to take the decision on the proposal after receipt of the following from the proponent:

- a) The site is connected with a public road on prachi canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that the land between Project site and Gangua nallah is not part of the project site. PP has to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.
- b) The PP has to submit the layout showing the drainage network starting from building site to natural nallah. The drain design needs to be prepared and approved by appropriate authority considering the data of RLs of bottom of drain at strategic locations and invert level of natural nallah, the run off calculations during highest rain fall, so that the area is not flooded with rain water during heavy rainfall. The maximum ground water level vs proposed ground level, the parking area, RWH etc. (after construction) needs to be considered taking into account the maximum rainfall of the area for adequate structural stability.
- c) Source of water for use during construction phase.

#### **ITEM NO. 04**

#### **PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR KERANDI SAND BED OVER AN AREA OF 20.717 ACRES OR 8.384 HECTARES IN VILLAGE KERANDI UNDER PARLAKHEMUNDI TAHASIL OF GAJAPATI DISTRICT BY SRI G. VENKATARAMANA- EC**

1. This proposal is for environmental clearance for Kerandi sand bed over an area of 20.717 acre or 8.384 Hectares In village Kerandi under Parlakhemundi Tahasil of Gajapati District of Sri G. Venkata Ramana.
2. **Category:** The project is categorized in Category-B-1 of Schedule under item 1(a)-Mining of Minerals in the EIA notification, 2006 and its subsequent amendments.
3. The proposed mine lease has been granted to Tahasildar Paralakhemundi, Gajapati District. The mining plan for the ML area has been approved by the Dy. Directorate of Geology Authorized officer, O/o Joint Directorate of Geology, Berhampur (South Zone), Odisha vide Memo no 260(2)/SZ dated 25.02.2020.
4. The Letter Of Intent for mining has been issued for 5 years period dated 20.05.2019.

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5. The sairat at of the Mine has been auctioned for leasing purpose and the Mine lease has been awarded to Sri. G.Venketa Ramana by Tahasildar Paralakhemundi, Gajapati District. vide letter no 7325/ Sairat Dated 31.12.2019
6. **Public hearing details:** Public hearing was held on 19.09.2022 in the Gram Panchayat office, Kerandi village, Gajapati district. Issued raised during public hearing were sand mining from the river bed, transportation of sand, dust suppression measure, environment protection, peripheral development, road development and plantation. The CER budget will be 2% about Rs. 40000 of the total project cost will be spend after discussion with District Collector.
7. **TOR details:** Terms of Reference (ToR) of proposed Sand mining project has been issued by SEIAA, Odisha vide File no-SIA/OR/MIN/70575/2021 dated 02.03.2022
8. **Location and connectivity:** The proposed Kerandi sand quarry comes under the village Kerandi, Tehsil-Paralakhemundi, District- Gajapati, in the State of Odisha. The project site is located in survey of India Toposheet No. 74B/1 & 74B/2 and bounded between the Longitude 84°06'23.5"E to 84°07'28.8"E and Latitude 18°45'49.00"N to 18°46'09.3"N. Mine Lease area is accessible through by own conveyance from SH 4 which is 1.2 Km away from ML area in North direction. The area is at a distance of 03km from district headquarters Gajapati.. The nearest railway station is Paralakhemundi railway station at a distance of 4.10 Km in NW.Nearest road bridge and river embankment is at a distance of 2km and in southwest direction of the project site.
9. **Topography and drainage:** The proposed sand bed is on the River Mahendratanya. The river flows from East to West direction along the quarry lease area. The quarry lease area is present a bove 2.0 Km in North–East of the village Kerandi. The proposed area is more or less flat with highest elevation of 56 m above msl. The shallow depth excavation on dry/nominally wet sand close to the bank or dry river bed mining has been proposed which will have no impact on drainage. Abandoned stream channels on terrace and inactive flood plains have been preferred rather than active channels and flood plains.
10. **Replenishment report:** The estimated average erosion thickness is computed within the entire lease area and common safe workable area respectively. However, the volume of sand available after post monsoon is around 48370 m<sup>3</sup>, which can be treated as safe extractable within the framework of the study after arrival of river level as it was in Premonsoon. Further volume of sand also computed which can be extracted as on date (during mining plan preparation) is 96740 m<sup>3</sup>. As it is a new mine no excavation has done in the present year. So, total minable reserve available for mining is 1,45,110 m<sup>3</sup> whereas, approved production capacity is for the year is 6,000 m<sup>3</sup>.
11. **Reserves:** Total Geological reserves is estimated to be 150980Cum. and total minable reserves is estimated to be 96740 Cum. Total production is given in the following table:

Year	River Sand Production in cum
1st	6000
2nd	6000
3rd	6000

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4th	6000
5 <sup>th</sup>	6000
Total	30000

12. **Mining method:** It is proposed to produce targeted sand production by opencast manual method of mining without drilling and blasting. Sand from river bed within the lease area will be extracted by manual method using handpicks, spade, hand shovel and manually loaded into trucks/tractors and dispatched. The sand will be collected in dry river bed in the lease area. Mining will be started from north western part of the quarry and progress towards eastern side. A 7.5 m wide safety barrier will be left undisturbed around the mine lease boundary. The mineral extraction will be done for a period of 210 days in a year. Dry pit mining will be followed i.e mining at all times will be above flowing river bed water level with no mining when water is above bed level. Sand will be collected in slices up to a depth of 2.0 m. Sand will be transported to the buyer's location by 8 Cum/4 Cum capacity trucks/tractors.

13. **Water requirement:** Total water requirement for the mining project is 4.0KLD. This water will be supplied from the nearby village through hired tankers.

Activity	Water requirement in KLD	Source
Dust suppression /allied mining activity	2.0	Through tankers from nearby villages & bore well
Green Belt/Plantation	1.0	
Domestic	1.0	
<b>Total in KLD</b>	<b>4.0</b>	

14. **Baseline study:** The baseline data generation has been carried out during March 2021 to May 2021 for the period of three months.

- a) During the study period the concentration of PM<sub>10</sub> varies from 60.56 µg/m<sup>3</sup> to 92.14 µg/m<sup>3</sup>. Concentration of PM<sub>2.5</sub> varies from 39.4 µg/m<sup>3</sup> to 55.6 µg/m<sup>3</sup>. The concentration of SO<sub>2</sub> varies from 4.5µg/m<sup>3</sup> to 11.3 µg/m<sup>3</sup> and NO<sub>x</sub> concentrations vary from 11.3 µg/m<sup>3</sup> to 22.1 µg/m<sup>3</sup>. From the ambient air quality monitoring carried out for three months (March-May 2021) of the study period shows that the critical pollutants like PM<sub>10</sub>, SO<sub>x</sub> and NO<sub>x</sub> are well within the permissible limits.
- b) The noise level as measured in the core zone is 55.8 dB (A) in daytime and 43.5 dB (A) in the night time. In the buffer zone the noise level ranges from 50.4 dB(A) & 56.4 dB(A) during day time and 40.1 dB(A) & 46.8 dB(A) during night time.
- c) The pH level of the ground water sample ranges from 7.32-7.52. This indicates that the pH of the ground water in the study area is nearly neutral and as per the drinking water standard. Total hardness ranges from 250-315 mg/l, and total dissolved solid ranges from 415to 471mg/l.
- d) The pH range of the surface water samples is neutral ranging from 7.1 to 7.9. Dissolved oxygen in the surface water sample ranges from 7.2-7.8mg/l. Chemical oxygen demand of the surface water body is 6-8 mg/l.

- e) The analysis results show that soil is basic in nature as pH value ranges from 7.82 to 8.24 which show that the soil is alkaline in nature. Potassium is found to be from 48.21 mg/kg to 60.45 mg/kg. The water holding capacity is found in between 15.28% to 17.46%.

15. **Greenbelt:** Plantation will also be carried out along the mineral transportation roads in the nearby villages. About 200 saplings will be planted in year. Also plantation will be carried out in the available free government areas with in the study area.

S.No	Year	No. of plants to be Planted	Area of Plantation in Ha.
1	1st Year	40	0.035
2	2nd Year	40	0.035
3	3rd Year	40	0.035
4	4 <sup>th</sup> Year	40	0.035
5	5 <sup>th</sup> Year	40	0.035
	Total	200	0.175

16. **Manpower requirement:** Besides the direct and indirect employment to 33 persons, the company will provide vocational skill training to the unemployment youth of the neighbouring villages through outside agencies. Local villagers residing in the nearby villages shall be employed as semi-skilled workers.

17. **Project cost:** The estimated project cost is Rs 20 Lakhs. For EMP the budget is Rs. 2.26 lakhs as capital cost and Recurring cost of 1.766 lakhs. For Corporate Environmental responsibility budget allocated is Rs.40000/-. For Occupational health checkup a sum of Rs. 202000 had been allocated.

Budget for Environmental Protection

S.No	Particulars	Amount per Annum( INR)	
		Capital	Recurring Cost
1	Dust suppression	100000	100000
2	Plantation and its protection	100000	50000
3	Personal Protective Equipment	66000	66000
4	Environmental Monitoring	100000	100000
5	Budgetary for Tarpaulin @ Rs 2000/- (18*12)	20000	20000
6	Maintenance of the Road		100000
	<b>Total in INR</b>	<b>386000/-</b>	<b>436000/-</b>

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18. **Environment Consultant:** The Environment consultant M/s Cognizance Research India Pvt. Ltd along with the proponent made a presentation on the proposal before the Committee on dtd. 03.03.2023.

19. The SEAC in its meeting dated 03.03.2023 decided to take decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Site photographs along with Geo-Tag photos along with Coordinates indicated the date of photos.	Site Photograph Attached as Annexure -I	Photographs attached.
2.	Clarification regarding mis-match of Plot no. in DSR and documents submitted online.	Due to some clerical mistake in DSR report, one plot no. was mentioned wrongly in Kerandi Sand Bed at page no. 09 as Plot no. 151 but the corrected Plot No. stand as 651, So please consider this proposal for grant of EC.	The PP has attached Corrected plot no. of DSR page 2.
3.	As per Sand Sustainable Guidelines, 2020, no mining should be allowed below water level. Brief note/justification on procedure mining of sand will be conducted as per guidelines.	The mining will developed in dry area only, no mining is proposed in waterlogged area. As per Sand Sustainable Guidelines, 2020, No mining should be allowed below water level, as our mining depth is restricted upto a depth of 2 meter from Surface, This will not intersect the ground water table, and every year Replenishment will take place.	To be added as specific condition.
4.	There is a mis-match in budget submitted for Environmental Protection and EMP budget in EIA and presentation. This shall be clarified.	The report is submitted with mentioning the EMP budget.	Submitted.

20. The SEAC in its meeting held on dated 12-07-2023 decided to take decision on the proposal after receipt of the following document from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Clarification regarding plot no. change in DSR is to be issued by the approving authority of the DSR. Such clarification duly certified by appropriate authority need to be submitted before recommendation of EC.	It is submitted that there is no changes in plot no. of the proposed source; it is just a clerical mistake. Instead of Plot no.651, the DSR reflect the plot no.151.	Clarification regarding plot no. change in DSR is to be issued by the approving authority of the DSR has been submitted.

Considering the information furnished and the presentation made by the consultant, M/s Cognizance Research India Pvt. Ltd, along with the project proponent, the SEAC recommended for grant of Environmental Clearance for the proposal valid upto lease period with stipulated conditions as per Annexure – A and following specific conditions:

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- a) Amended EIA Notification dated 25<sup>th</sup> July, 2018, Guidelines for sustainable sand mining, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, January 2020 of MoEF&CC, Govt. of India shall be adhered to in execution of Mining as per Annexure – B.
- b) Sand extraction shall be limited to quantity and depth as per replenishment study report. Regular replenishment study as per guidelines to be conducted and report to be submitted.
- c) Provision of Bio-toilet shall be made at the site.
- d) Avenue plantation and plantation on both sides of the haulage road in consultation with/ on the advice of concerned Forest Department, Government of Odisha & W.R. Department Government of Odisha as well.
- e) Stone patching with plantation in between along the stretch of the bank associated with sand mining and necessary ramp construction shall be made.
- f) No natural water course shall be obstructed or diverted for the purpose of sand mining.
- g) As per Sand Sustainable Guidelines, 2020, the proponent shall ensure that no mining should be allowed below water level.

**ITEM NO. 05**

**PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR MULTISTORIED RESIDENTIAL BUILDING PROJECT B+S+16 (BLOCKS A& B) OF M/S EVOS BUILDCON PVT. LTD. OVER AN BUIL-UP AREA 34341.85 SQ.MT AT: MOUZA- JAGASARA, TAHASIL - JATNI, DIST- KHORDHA OF SRI KALINGA KESHARI RATH - EC**

1. This proposal is for Environmental Clearance of Multistoried Residential Building Project B+S+16 (Blocks A& B) of M/s Evos Buildcon Pvt. Ltd. over a built-up area 34341.85 Sq.mt At: Mouza- Jagasara, Tahasil - Jatni, Dist - Khordha of Sri Kalinga Keshari Rath.
2. **Category:** As per EIA Notification, 2006 and its subsequent amendments this proposed project falls under category B1 and activity 8 (a) - Building and Construction projects.
3. **Project details:** The proposed twin blocks project "Empire Twins" is a multistoried Residential Apartment Building comprising of 2 nos. (two) blocks which are of same configuration with B+S+16 Floors each over a total plot area of 6801.18 Sq.m or 1.681 Acres in favour of M/s Evos Buildcon Pvt. Ltd.
4. Approval from Bhubaneswar Development Authority, Bhubaneswar vide File No- BP-BDA- 2022-10-23-009644 has been applied to by the project proponent (applicant).
5. **Location and connectivity:** The proposed project site is located at Plot No - 580, 581, 582, 583, 599, 581/1308, 599/1134, Khata No- 229/1899 (old Khata No. 229/320), 229/893, 229/322, 229/1477 in Mouza- Jagasara, Tahasil - Jatni of Khordha district, Odisha. The proposed project site lies and covered in the Survey of India Topo sheet no. F45T11. The geographical co-ordinates of project site are Latitude 20° 16' 06.84" N to 20° 15' 07.67" N and Longitude 85° 43' 11.46" N to 85° 43' 13.84" E. The upcoming project site is located at a distance of 1.0 km from Mouza - Jagasara. Khordha is at a distance of 13.0 Km. NH-16 is at a distance of 3 km. Khordha Chandaka Road is at a distance of 3.2 km. Bhubaneswar town is located at a distance of 12.0 km. Biju Patnaik International Airport is at a distance of 10 km. Bhubaneswar Railway station is at a distance of 13.0 km. Bhubaneswar Fire Station is located at a distance of 8.7 km and Bhubaneswar govt. hospital is located at a distance of 10.8 km from the project site.

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**6. Built up area details:**

Plot Area	: 6801.18 Sqm
Net Site Area	: 6799.80 Sqm
Total Proposed FAR Area	: 27099.52 Sqm
Covered Parking Area	: 7,242.33 Sqm
S.Pool Area	: 112.66 Sqm
Total Built-up Area	: 34341.85 Sqm
Total Green Area	: 1500 (22.06%) Sqm
Height of the Building	: 51.25 mts
No of Blocks	: A & B with 16 floors each.
No of Flats	: 176 (3BHK)

- 7. Water requirement:** The source of water supply during operational phase will be borewells for which requisite approval from the CGWA has been applied for. The total water requirement for the proposed project is approx. 163 KLD, out of which total domestic water requirement is 147 KLD. The freshwater requirement is approx. 103 KLD. No Objection Certificate (NOC) for Ground Water Abstraction was obtained with NOC No. CGWA/NOC/INF/ORIG/2022/17056, valid from 17/11/2022 to 16/11/2027 for 97KLD.
- 8. Wastewater Generation and Treatment:** The total domestic water requirement for this residential project will be 147 KLD and it is expected that the project will generate approx. 128 KLD of wastewater. The wastewater will be treated in onsite STP of 150 KLD capacity. The treated effluent will be reused for flushing, greenbelt and miscellaneous uses. Surplus treated effluent will be discharged to Recharge Trench.
- 9. Rainwater harvesting:** Rainwater harvesting has been catered to and designed as per the guideline of CGWA. Peak hourly rainfall has been considered as 140 mm/hr. The recharge pit of dimensions 1.5mx1.5mx2m (Liquid Depth) is constructed for recharging the water. 11 Nos. rainwater harvesting pits are being provided for run-off from the site.
- 10. Fire fighting details:** The height of the building is upto 51.25 mts. Fire Extinguisher, First Aid Hose Reel, Wet Riser, Yard Hydrant, Automatic Sprinkler System, Manually operated Electronic Fire Alarm System, Underground Static Water Tank including Water Curtain, Overhead Tank will be provided as safety measures in both the blocks. Internal road of 7.5 mt width has been demarcated for movement of fire vehicle
- 11. Solid waste generation:** During the operation phase, estimated quantity of the waste shall be approx. 626 kg per day. Garbage will be 607.5 Kg/Day in which Biodegradable Waste 364.5 Kg/Day @ 60% will be treated in In-house Organic Waste Converter and Non-Biodegradable waste 243 Kg/Day @ 40% will be sent to Authorized Vendors as per SWM Rules 2016. Landscape waste will be 0.074 Kg/Day. STP Sludge generation will be 17.9 Kg/day.
- 12. Power requirement in the project:** Electricity requirement for the apartment building will be 2060.11KW which will be supplied from TPCDOL. Out of the total electricity requirement 107.9 KW will be required for common area power load, common area light load and outdoor light and power. There will be electrical distribution transformers within the project site. DG Set of 2 Nos. of

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- capacity 315 KVA has been proposed for the residential society to provide supply considering the critical loads for each application. Solar power generation is 103 KW from PV solar panels.
- 13. Parking details:** Parking required as per BDA is 25% of proposed F.A.R which is 25% of 27099.52 sqm i.e., 6774.80 sqm. In terms of ECS @ 32 sqm - 210 ECS. Parking area provided is 7,713.09 sqm (basement parking – 4714.74 sqm + stilt parking - 2527.59 sqm +open parking - 470.76 sqm) in terms of ECS @ 32/23 sqm which is 255 ECS.
- 14. Greenbelt:** Total green area measures 1500.0 m<sup>2</sup> (approx. 22.06% of the total plot area). Green Belt is 925.0 Sqm and Green Area is 575.0 Sqm. Evergreen tall and ornamental trees have been proposed to be planted inside the premises.
- 15. Project cost:** The estimated cost of the upcoming residential project is INR 72.0 Crores. EMP cost is 60 lakhs (capital) and recurring 17 lakhs. For environmental protection measures a amount of Rs.74 Lakhs as capital cost and Rs.24.5 Lakhs as recurring cost has been earmarked.
- 16. Environment Consultant:** The Environment consultant **M/s Right Source Industrial Solutions Pvt. Ltd.** along with the proponent made a presentation on the proposal before the Committee on dtd. 17.02.2023.
- 17. The SEAC in its meeting held on dated 17-02-2023 recommended the following:**
- A. The proponent may be asked to submit the following for further processing of EC application:**
- i) Land schedule and Kisam of land.
  - ii) Traffic study report and get vetted from reputed institute.
  - iii) Recalculate RWH by taking maximum rainfall into account.
  - iv) Drain connectivity and discharge point.
  - v) Break up calculation for solar power generation, consumption, roof top capacity, percentage contribute to power demand.
  - vi) Status of permission from Airport Authority about building height.
  - vii) Green belt is observed to be 13% and needs to be revised to meet the norm and revised plan/layout to be submitted
  - viii) Permission from appropriate authority for discharge of treated water to be provided.
- B. The proposed site shall be visited by Sub-Committee of SEAC to verify the followings**
- vii) Environmental settings of the project site.
  - viii) Construction activity, if any started at the site.
  - ix) Road connectivity to the project site.
  - x) Drainage network at the site.
  - xi) Discharge point for discharge of treated water and distance of the discharge point from the project site.
  - xii) Any other issues including local issues.

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18. The proposed site was visited by the sub-committee of SEAC on 29.03.2023. Following are the observations of the sub-committee:

- a) PP and Consultant were present along with other team members.
- b) It was observed that the site is adjacent to a 40 ft. road.
- c) The site was clean and no construction work carried out.
- d) PP explained that as per plan the project will be of ZLD. However, rain water and excess treated water if any shall be allowed to fall in an existing Nallah through a drain to be constructed by them. Since the road is a private road, necessary POA to be taken from the land owner for constructing the drain. Any portion of drain if on Govt road, required permission also to be taken from the appropriate authority (BDA/BMC) (Conditions to be stipulated)
- e) A Nallah was seen at a distance from the site. Permission to allow water as at d) above to be also taken from the appropriate authority (Conditions to be stipulated)
- f) Trees are to be planted to comply green belt requirement.
- g) Documents asked during presentation needs to be submitted.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Land schedule and Kisam of land.	Plot No – 580,581,582,583,599, 581/1308,599/1134, Khata No – 229/320,229/893, 229/322, 229/1477, Mouza – Jagasara, Tahasil – Jatni, District – Khordha, Odisha.  Attached Land documents as Annexure – I.	submitted
2.	Traffic study report and get vetted from reputed institute.	Traffic study Report was vetted by School of Civil Engineering KIIT Deemed to be University, Bhubaneswar.  Attached Land documents Annexure – II.	Present Traffic is categorized under LOS is 'A', After 10 years, with/without project the LOS will be 'B' as vetted by School of Civil Engineering KIIT Deemed to be University, Bhubaneswar.
3.	Recalculate RWH by taking maximum rainfall into account.	8 No's of Rain Water Harvesting pits area being proposed for artificial rain water recharge within the project premises.  Calculation attached as Annexure –III.	8 No's of Rain Water Harvesting pits has been proposed taking account peak rainfall intensity of

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
			0.140m/hr.
4.	Drain connectivity and discharge point.	The drainage connectivity and discharge point layout attached as Annexure –IV.  Drainage network will be developed by the Project Proponent.	Drainage map submitted.
5.	Break up calculation for solar power generation, consumption, roof top capacity, percentage contribute to power demand.	Solar Power utilization will be 7.1%  The details are attached as Annexure –V.	Solar power consumption and total power usage is given. However, Break up calculation for solar power generation is not submitted.
6.	Status of permission from Airport Authority about building height.	NOC ID: BHUB/EAST/B/102922/723896 NOC from AAI was obtained on 15.11.2023 valid upto 14.11.2030  Attached as Annexure – VI.	submitted
7.	Green belt is observed to be 13% and needs to be revised to meet the norm and revised plan/layout to be submitted	Not submitted	Not submitted
8.	Permission from appropriate authority for discharge of treated water to be provided	Not submitted	Not submitted

20. The SEAC in its meeting held on dated 12-07-2023 decided to take decision on the proposal after receipt of the following information / documents from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Break up calculation for solar power generation, consumption, roof top capacity, percentage contribute to power demand.	Solar power calculation has been attached for your reference as Annexure –I.  The Solar power generation will be 150 KW with PV capacity as 1.5 KWh.
2.	Green belt is observed to be 13% and needs to be revised to meet the norm and revised plan/layout to be submitted.	Total Plot area 6,799.80 m <sup>2</sup> Proposed Green belt area 1359m <sup>2</sup> (19.98% of plot area) and green area is 325 Sq.m Total proposed area for green belt development is 1359 + 325 = 1684 Sq.m which is 24.76% of total plot

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		area. The revised layout plan has been attached for your reference as Annexure –IV.
3.	Permission from appropriate authority for discharge of treated water to be provided.	Declaration letter has been attached for your reference as Annexure-II.
4.	Document with respect to POA from the land owner for constructing the drain (if it is passing through private land) and if through Govt. road, required permission from the appropriate authority (BDA/BMC etc) May be submitted as suggested during site visit.	Declaration letter has been attached for your reference as Annexure-II.
5.	A Nallah was seen at a distance from the site. Permission to allow water as above from the appropriate authority (if obtained or applied) to be submitted.	Acknowledgement letter has been attached for your reference as Annexure-III.

After detailed discussion, the SEAC decided to take the decision on the proposal after receipt of the following from the proponent:

- a) Permission from appropriate authority for discharge of treated water to be provided.
- b) Document with respect to POA from the land owner for constructing the drain (if it is passing through private land) and if through Govt. road, required permission from the appropriate authority (BDA/BMC etc.) May be submitted as suggested during site visit.
- c) A Nallah was seen at a distance from the site. Permission to allow water as above from the appropriate authority (if obtained or applied) to be submitted.

#### **ITEM NO. 06**

**PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR TANTRA BAUXITE MINE WITH PROPOSED EXCAVATION OF 1000000 TPA OF BAUXITE HAVING OVER AN AREA OF 106.138 HA. LOCATED AT VILLAGE: TANTRA, SUB-DIVISION- BONAI, DISTRICT SUNDARGARH OF SRI PRABHU DAYAL AGRAWAL - 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 to obtain Environmental Clearance for Tantra Bauxite Mine with proposed excavation of 1000000 TPA of Bauxite having over an area of 106.138 Ha. Located at Village: Tantra, Sub-division- Bonai, District Sundargarh of Sri Prabhu Dayal Agrawal.
3. **Category:** As per the EIA Notification S.O. 1533, dated 14th September 2006 and subsequent amendments, this project falls under Category B1 (Minor Mineral Projects).
4. Originally the mining lease was granted in favour of Shri Prabhu Dayal Agrawal on 08.07.1991 over an area of 106.138 hectares or 262.271 acres for 20 years. But as per the

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- Mines and Minerals (Development and Regulation) Amendment Act 2015 read with rule 66 of OMMC Rule 2016, the period of lease has been extended up to 20 years i.e., 07.07.2031 through Renewal Mining Lease Deed dtd. 08.07.2011.
5. The Tanta Bauxite Mine is a Mining Lease area was executed for Mining of Bauxite ore in favour of Shri Prabhu Dayal Agrawal over an area of 106.138 ha. or 262.271 acres comes under village Tantra, Bandhal & Rengua in Koida Tahasil of Sundargarh District, Odisha.
  6. The copy of representation letter no. Tantra/108 dt. 20.01.2023 received from Sri P.D. Agrawal to inform that the aforesaid mining lease was executed on 08.07.1991 for a period of 20 years in favour of Sri P.D. Agrawal. The term of a said lease expired on 07.07.2011. The lessee has filed 1st RML application on 16.03.2010 over the entire area for Bauxite, Iron & Manganese Ore under the provision of rule 24A (1) of MC Rules, 1960 in due time which is pending for disposal. The mining operation in the leasehold area was discontinued due to expiry of original lease w.e.f. 08.07.2011 & remained non-operational for continuous period of 2 years up to 07.07.2013 which attracts the provision of section 4A (4) of MMDR Act, 1957. As such the State Govt. declared the said lease as lapsed w.e.f. 07.07.2013 under section 4A (4) of MMDR Act, 1957 read with rule 28(1) of MC Rules, 1960 vide Govt. Proceeding No. 9625/SM dt. 29.09.2015.
  7. The lessee preferred Revision application against the said lapsing order of State Govt., where in the Revisional authority set aside the impugned order of State Govt. dt. 29.09.2015 and directed the State Govt. to re-consider the lapsing in view of observations of Hon'ble Supreme Court of India in its order dt.04.04.2016 in WP(C) No. 114/2014 (Common Cause) which is being re- examined by the State Govt. through personal hearing of the lessee. Moreover, under section 8A (3) of MMDR Amendment Act, 2015, the State Govt. have not extended the validity of lease period i.e. up to 07.07.2041. As such the said lease would be deemed to be consider as subsisting lease.
  8. In pursuance to the judgment dt. 02.08.2017 of Hon'ble Supreme Court of India, the DDM, Koira has issued Demand notice vide his letter No. 4356/Mines dt.18.11.2021 to the lessee for payment of compensation amount of Rs.14,23,524/- under section 21(5) of MMDR Act, 1957 in violation for production of minerals show raised without lawful authority or in excess of the lower of approved limit under statutory clearance for the period from 2000-2001 to 2010-2011 in respect of the mine, which has already been paid by the lessee through e-challan on 03.01.2022.
  9. The lessee has processed before the concerned authorities for obtaining of valid statutory clearances such as Mining Plan, Forest Clearance, Environmental Clearance etc. in respect of the mines which is pre-requisite for extension of the validity period of the said lease under section 8A (3) of MMDR Amendment Act, 2015.
  10. As per the documents submitted by the lessee, 3<sup>rd</sup> meeting of Project Screening Committee of the proposals in respect of Tantra Bauxite Mine held on 18.01.2023 for processing as per F.C Rules, 2022 through VC, wherein the lessee was directed to file

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- approval of Mining Plan online for FC. Approval of Review of Mining Plan without such clearance the extension of validity of lease period under section 8A (3) of MMDR Amendment Act, 2015 is not feasible.
11. Earlier, Terms of Reference (TOR) issued by MoEF & CC, New Delhi vide letter number J-11015/178/2009-IA. II(M) dated 19<sup>th</sup> August 2010 for undertaking mining operation in the lease area.
  12. Consent to establish has been obtained from State Pollution Control Board, Odisha vide letter no. 1739/III-CON (NOC)-296/2009-10 dtd. 21.06.2011 and for 100 TPH crusher unit, Consent to Establish has been issued vide letter no.11459/IND-I-CON-5654 dated 20.07.2009.
  13. Earlier, public hearing for renewal of mining lease and enhancement of Bauxite ore 1.2LTPA to 1.0 MTPA in production was conducted on 12.05.2011.
  14. The present proposal for environment clearance is proposed for enhancement in production of bauxite from 3,786,75 TPA to 9,99,02 TPA from the lease area.
  15. The entire area is DLC forest land having kissam - pahad as per land schedule.
  16. **Location and connectivity:** Tantra bauxite mining lease area is situated in village Tantra of Bonai Tehsil in Sundargarh district, Orissa. The area forms a forest land. This area falls under latitude 21° 53' 46" N to 21° 54' 33" N and Longitude 85° 10' 18" E - 85° 11' 10" E in the toposheet no. 73 G/1. The total area of the mining lease is 106.138 Ha. The highest altitude of the area is 784.0 m from M.S.L and the lowest altitude is 643.1 M.S.L.
  17. **Reserves and production:** The revised mineable reserve of useable bauxite in the lease area is 1,63,45,127 MT. Keeping in view the production of bauxite@ 9,99,702 per annum, life of the mine will be 16.3 years or say 16 years after this modified scheme period.
  18. **Mining method:** Presently the mining is being carried out by semi mechanized opencast method. However, with the existing proposal there is the planning for fully mechanized mining operation in the lease area. There is an existing 200 TPH crusher present in the lease area and proposal for installation of another 200 TPH crusher in the lease area. The crushing screening and sorting will be carried out within the lease area. The saleable bauxite will be raised and stacked near earmarked stack yard after being crushed as per the requirement. The usable refractory grade and steel grade bauxites will be transported by hiring trucks. The trucks will be loaded by pay loaders.
  19. **Waste generation and management:** A quantity of 1884450m<sup>3</sup> of swollen waste will be generated due to mining during the conceptual period. The waste generated during excavation will be utilized for mine road construction and other allied infrastructure and if required will be shifted to the proposed dump. At the end of the conceptual period a total area of 45.1175 hectare is to be degraded under mining. As no part of the lease area is getting exhausted, no backfilling proposal has been proposed in this scheme period.
  20. **Water requirement:** Water requirement for the project is 15 KLD and will be met from ground water.

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21. **Greenbelt:** Till date 0.5 Ha. of plantation zone with 1000 saplings has been made within the ML area. Huge plantation has been carried out within the lease area i.e., along the Safety Zone, OB dump and dump Slope. During this monitoring period 1000 nos. of plantation has been done over an area of 0.5 Ha.
22. **Manpower:** Total 116 nos. of workers will be indirectly employed, and 30 nos. will be directly employed for mining of Bauxite ore in the lease area.
23. **Project cost:** The cost of the project will be 14 Crores.
24. **Environment Consultant:** The Environment consultant M/s Green Circle. INC., Vadodara along with the proponent made a presentation on the proposal before the Committee on 07.07.2023.
25. The SEAC in its meeting held on dated 07-07-2023 decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Certified copy of the production limit set for the unit prior to 1994 and after 1994.	The authenticated Production prior to 1994 as well as after 1994 is attached as Annexure- 1. Authenticated production since 1994 is Nil as mention in the DDM, Koira letter vide No.- 6820, Dtd.18.11.2017 is attached as Annexure- 2.	Authenticated year wise Production details duly certified by DDM, Koira from year 2000-01 to 2010-11 is submitted.
2.	Certified copies of year-wise production details prior to 1994 and after 1994 from mining officer.	DDM, Koida letter showing production w.e.f. 2001 wherein production prior to 1994 is shown Nil. Hence the total production from 2001 has been demanded U/s 21 (5) of MMDR ACT. The same is attached as Annexure- 2.	Authenticated year wise Production details duly certified by DDM, Koira from year 2000-01 to 2010-11 is submitted.
3.	Copy of approved mining plan prior to 1994.	Not applicable.	
4.	Copy of letter of Steel and Mines Department, Govt. of Odisha to the lessee validating the grant of extension of the mining lease in favour of the lessee.	The DMG, Steel & Mine Department letter requiring Mining Plan EC & FC for extension, Vide letter no.- DMO-MCIIIMISC-0005-2023-2562 / DoMG, Dtd. 21.02.2023 is attached in Annexure- 3.	In the above said letter it is mentioned that extension of the mining lease in favour of the lessee is not extended.
5.	The lease lapses in 2011 but, mining operation was continued after 2011 and concerned DFO stopped mining operation for not having Environmental Clearance and Forest Clearance. In pursuance to the judgment dt. 02.08.2017 of Hon'ble Supreme Court of India, the DDM, Koira has issued Demand notice vide his letter No. 4356/Mines dt.18.11.2021 to the lessee for payment of compensation amount of	Lease laps w.e.f. 07.07.2013. The said letter Vide No.9625, Dtd.29.09.2015 is attached in Annexure- 4.	----

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	Rs.14,23,524/- under section 21(5) of MMDR Act, 1957 in violation for production of minerals show raised without lawful authority or in excess of the lower of approved limit under statutory clearance for the period from 2000-2001 to 2010-2011 in respect of the mine, which has already been paid by the lessee through e-challan on 03.01.2022. Justification that why it should not be considered as a violation case? With supporting documents of Notification along with the production figures.		
6.	Earlier, Terms of Reference (ToR) issued by MoEF&CC, New Delhi vide letter number J-11015/178/2009-IA. II(M) dated 19 <sup>th</sup> August 2010 for undertaking mining operation in the lease area. Earlier, public hearing for renewal of mining lease and enhancement of Bauxite ore 1.2 LTPA to 1.0 MTPA in production was conducted on 12.05.2011 and final EIA report was submitted to MoEF&CC, Govt. of India for Consideration of EC. Reason for non-consideration of EC by MoEF&CC, Govt. of India for the proposal at that time with supporting documents.	The EC can't be processed at MoEF &CC due to lapsing of mines w.e.f. 07.07.2013. The said letter Vide No.-9625, Dtd.29.09.2015 is attached in Annexure- 4.	----
7.	Copy of all Consent to Establish and Consent to Operate obtained from the Pollution Control Board, Odisha.	Copies CTE no.- 10082/Ind-II-NOC-5782, Dtd. 18.06.2015 & CTO letter no. 11459/IND-I-CON-5654, Dtd. 20.07.2009 are Annexure- 5 & Annexure- 6.	submitted
8.	Detailed note on history of the mine chronologically and details of statutory clearances obtained for operation of the mines.	Detailed note on history of the mine chronologically and details of statutory clearances obtained is attached in Annexure- 7.	----
9.	Supporting documents that the mining lease has not lapsed and is in name of Lessee. Copy of the extension of the mining lease from the Steel and Mines Department.	The DMG, Steel & Mine Department letter requiring Mining Plan EC & FC for extension, Vide letter no DMO-MCIIIMISC-0005-2023-2562/DoMG, Dtd. 21.02.2023 is attached in Annexure- 3.	----
10.	Receipt of Royalty paid (if any).	Royalty challan is attached in Annexure- 8	Challan is attached
11.	Approved mining plan of Bauxite mine along with Cross sectional Sketch plan of Bauxite mine.	IBM Approved Cross sectional sketch map is attached in Annexure- 9	submitted
12.	Current Status and supporting	FDP has been applied. The	Application submitted

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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	documents that the applicant has applied for Forest Clearance for the project.	supporting documents are attached herewith as Annexure- 10.	for Forest clearance on dated 15.02.2023 vide proposal no. sw/108381/2022
13.	Details analysis of quantity and quality of bauxite present in mine.	Approved page No.- 09 of Mining Plan showing the quantity of reserve 16345127 Tones and NABL quality analysis report are attached as Annexure – 11 & Annexure - 12 respectively.	submitted
14.	Note on blasting management, slope study analysis and water management.	The details of blasting management at page no. 21, 22, 26 & 27, slope study analysis at page no. 19 and water management at page no. 09 (PMCP) are described in approved mining plan. The pages of approved mining plan attached herewith as Annexure – 13.	submitted

26. The SEAC in its meeting held on dated 23-08-2023 decided to defer the proposal to next meeting as information submitted by the proponent requires more deliberation.

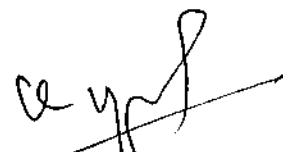
After detailed discussion, the SEAC decided to take decision on the proposal after receipt of the following from the proponent:

- i) The DMG, Steel & Mine Department letter requiring Mining Plan EC & FC for extension, Vide letter no.- DMO-MCIIMISC-0005-2023-2562 / DoMG, Dtd. 21.02.2023 indicates that extension of the mining lease in favour of the lessee is not extended. This has to be clarified.
- ii) The lease lapses in 2011 but, mining operation was continued after 2011 and concerned DFO stopped mining operation for not having Environmental Clearance and Forest Clearance. In pursuance to the judgment dt. 02.08.2017 of Hon'ble Supreme Court of India, the DDM, Koira has issued Demand notice vide his letter No. 4356/Mines dt.18.11.2021 to the lessee for payment of compensation amount of Rs.14,23,524/- under section 21(5) of MMDR Act, 1957 in violation for production of minerals show raised without lawful authority or in excess of the lower of approved limit under statutory clearance for the period from 2000-2001 to 2010-2011 in respect of the mine, which has already been paid by the lessee through e-challan on 03.01.2022. You had been asked to justify as to why it should not be considered as a violation case? With supporting documents of Notification along with the production figures. No justification has been given in earlier letter.
- iii) Earlier, Terms of Reference (ToR) issued by MoEF&CC, New Delhi vide letter number J-11015/178/2009-IA. II(M) dated 19<sup>th</sup> August 2010 for undertaking mining operation in the lease area. Earlier, public hearing for renewal of mining lease and enhancement of Bauxite ore 1.2 LTPA to 1.0 MTPA in production was conducted on 12.05.2011 and final EIA report was submitted to MoEF&CC, Govt. of India for Consideration of EC. You had been asked to give reason for non-consideration of EC

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by MoEF&CC, Govt. of India for the proposal at that time with supporting documents. In reply, you have intimated that the MoEF&CC, Govt. of India had intimated that EC can't be processed at MoEF &CC due to lapsing of mines w.e.f. 07.07.2013. In this connection you have to justify how EC can be processed at SEIAA, Odisha due to lapsing of mines w.e.f. 07.07.2013 and extension of the mining lease has not been sanctioned in favour of lessee.



**MEMBER SECRETARY, SEAC**

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## ANNEXURE- A

### STANDARD ENVIRONMENTAL CLEARANCE CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR SAND MINING

#### Stipulated Conditions:

1. The project proponent should carry out River bed sand mining manually by engaging local laborers in force to check over exploitation of sand at the source.
2. Any change in the plan or quantity to be produced shall require prior approval of SEIAA.
3. There shall be a 'no working zone' to protect the embankment on both sides, road or rail bridge in the vicinity, if any, dam, weir, water intake structure of irrigation or drinking water project, or any cross drainage structure. 10 % of the width of river shall be left intact along the embankments on both sides as 'no mining zone'. Further, no mining shall be allowed within 200 m of any existing structures dam, weir, water intake structure of irrigation or drinking water project, or any cross drainage structure. In case of River Bridge, this no mining zone shall extend upto a minimum stretch of 200 meters from the bridge and it may extend upto 500 meters in sensitive locations. The lease area shall be accordingly curtailed to carve out the actual sand mining area within the leasehold. Exact map of the lease area, and the 'no mining zone' shall be drawn to scale, showing the DGPS coordinates of all corner points, and the location of the bridge, embankment, extraction route & other structures; and such map has to be submitted to SEIAA by the project proponent through the Tahasildar within three months of the date of issue of the EC. The quantum of sand allowed to be extracted will be worked out on the basis of the actual working area.
4. The lease area and the actual working area shall be demarcated on the ground by erecting durable masonry /concrete pillars by the project proponent.
5. The project proponent shall take prior statutory and regulatory clearance as required from the concerned authorities in respect of the project, before carrying out any operation.
6. Mining is not permissible within the water channel or stream flow area. No stream shall be diverted for the purpose of mining and no natural water course shall be obstructed. The mining or any ancillary activity shall not in any way disturb the flow pattern of the river water during the non monsoon period. There shall be no sand mining in the river during the rainy season or when there is flow of water in the river.
7. Sand mining operations shall not affect the existing sources for irrigation / drinking water / industrial purpose.
8. The natural sand dunes, if any, near or surrounding the lease area shall not be disturbed.
9. No transportation of the minerals shall ordinarily be allowed on any road passing through villages/habitations/forest land without prior explicit permission. Transportation

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of minerals through existing rural roads can be allowed only by the concerned Govt. Department/BDO and only after required strengthening, such that the carrying capacity of road is increased to handle the sand truck traffic. The project proponent shall bear the cost towards the widening and strengthening of existing public roads in case the same is proposed to be used for the project. No movement on any road is allowed on existing village road network without appropriately increasing the carrying capacity of such roads. Project proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and traffic density. Plying of sand extraction trucks may be allowed on roads / path ways passing close to schools, temples, hospitals and such other public places only with prior written permission of competent authority.

10. Vehicles hired for transportation of sand from the site should be in good condition and should have pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
11. The vehicles shall not be overloaded and shall be covered with Tarpaulin. The Tahasildar may collect an appropriate road maintenance levy from the lessee as part of the lease conditions on the basis of quantum of sand transported, and utilize the proceeds of the levy for proper maintenance of the extraction paths and roads to prevent their degradation on account of plying of sand trucks.
12. The project proponent shall take all precautionary measures against causing damage to flora and fauna of the locality. The PP shall plant and nurse to full establishment a minimum of 50 number of saplings of native tree species along the approach roads, river banks and in community areas in consultation with the Gram Panchayat.
13. Water spray should be made on the road/extraction paths to control dust emission during transportation of sand.
14. The Project Proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.
15. Environmental Management Plan (EMP) shall be implemented by PP to ensure compliance with the environmental conditions specified above. The year wise funds earmarked for environmental protection measures shall be kept in separate account and shall be spent according to the plan proposed. Year wise progress of implementation of EMP shall be reported to the SEIAA, Odisha and OSPCB along with the compliance report.
16. The proponent shall take necessary measures to ensure that there is no adverse impact of the mining operations on the human habitation if any, existing nearby.
17. It shall be mandatory for the project management to submit quarterly compliance reports on the status of implementation of the above stipulated environmental safeguards to the SEIAA, Odisha / SPCB, Odisha/ Regional Office of the MoEF&CC, Bhubaneswar, in hard and soft copies on 1<sup>st</sup> day of January, April, July, October of each calendar year, failing which EC is liable to be revoked.

18. River Bank stabilization shall be made through stone patching. Plantation of adequate number native species on river banks and both sides of haulage roads shall be made.
19. During transportation of sand, all traffic safety measures shall be taken to avoid any kind of accidents.
20. Bio - toilet provision shall be made.
21. Stone patching on river bank with plantation in-between and the ramp construction shall be done in consultation with and advice of concerned W.R.Deptt, Government of Odisha.
22. Necessary sprinkling on Haulage Road and Avenue plantation shall be done.
23. At the end of mine closure, the proponent shall immediately remove all the sheds put up in the quarry and all the equipment in the area before closure of the quarry.
24. The conditions stipulated in the environmental clearance will be closely monitored on the ground by the lease granting authority, i.e. the Tahasildar, who shall ensure compliance of the stipulated conditions and take corrective measures promptly in case of any non- compliance and also ensure that the project proponent submits quarterly compliance reports.
25. The concerned Regional Office of the MoEF&CC/ SPCB, Odisha shall periodically monitor compliance of the stipulated conditions as applicable for this project. The project authorities should extend full cooperation to the MoEF&CC officer(s)/SPCB officer(s) by furnishing the requisite data / information / monitoring reports.
26. A copy of the clearance letter shall be sent by the proponent to concerned Gram Panchayat /Panchayat Samiti /Zilla Parisad /Municipal Corporation / Urban Local Body as the case may be.
27. Project proponent shall obtain Consent to Operate from the OSPCB 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 State Pollution Control Board.
28. The SEIAA, Odisha may revoke or suspend this EC, if implementation of any of the above conditions is not satisfactory. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.
29. The Project Proponent (lease holder) shall inform the SEIAA of any change in ownership of the mining lease. In case, there is any change in ownership or mining lease is transferred, then mining operation can be carried out only after transfer of EC as per provisions of the para 11 of EIA Notification, 2006, as amended from time to time.
30. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this environment clearance besides attracting penal provisions in the Environment (Protection) Act, 1986.

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31. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court and any other Court of Law relating to the subject matter.
32. 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.
33. 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.

## Annexure - B

### ESSENTIAL PHYSICAL CRITERIA AS PER ENFORCEMENT AND MONITORING GUIDELINES FOR SAND MINING, JANUARY 2020 OF MOEF&CC, GOVT. OF INDIA

Sl. No.	Essential Criteria	Reference
1.	"No Mining Zone": 1/4th part of the river width (excluding 3/4th the central part of the river width) on both sides of the river towards the river bank	4.1.1 (Para - e) Page - 16
2.	a) Distance between two clusters : $\geq 2.5$ km b) Area of mining lease area is a cluster: $\leq 10$ ha.	4.1.1 (Para - k) Page - 19
3.	Concave River Bank : No extraction of sand	
4.	No mining if a) Upstream: Lease is 1 km from major Bridge and high ways or $5(x)$ of the Bridge / public civil structure / water intakes point subject to lease is located at a minimum 250 meter distance. Where $x$ = Span of the bridge. b) Downstream side: Lease is 1 km from the major bridge and Highways Or $10x$ of the bridge / public civil structure / water intake point Subject to lease is located at a minimum distance of 500 meter where $x$ = span of the bridge	4.3 (Para - h) Page - 23
5.	Mining depth : $\leq 3$ meter (maximum 3 meter)	4.3 (Para - m) Page - 24
6.	Mining distance from river bank: $1/4^{\text{th}}$ of the river width, But subject to not less than 7.5 meter	4.31 (Para - m) Page - 24
7.	Area for removal of minerals : $\leq 60\%$ of mine lease area	4.3 (Para - s) Page - 25
8.	Minable sand per ha. Available for actual mining : $\leq 60,000$ MT/Annum	
9.	Regular replenishment study and replenishment rate	

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