

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 13th SEPTEMBER, 2021**

The SEAC met on 13th September, 2021 at 03:00 PM through video conferencing in Google Meet under the Chairmanship of Sri. B.P. Singh. The following members were present in the meeting.

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

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. UTKAL REALTORS PVT LTD. FOR CONSTRUCTION OF HOUSING PROJECT (RESIDENTIAL USE TYPE) LOCATED AT- PAHALA, BHUBANESWAR, DIST – KHORDHA WITH TOTAL BUILT UP AREA -30,990.21 SQM. OF SRI. PRAKASH CHAND BHURA (EC)

1. This is a proposal for Environmental Clearance of M/s. Utkal Realtors Pvt Ltd. for construction of Housing Project (Residential use type) located at- Pahala, Bhubaneswar, Dist – Khordha with total built up area -30,990.21 m². of Sri. Prakash Chand Bhura.
2. The proposal is for Environmental Clearance for proposed construction of proposed 2MLCP+Services+16 Storied Residential Apartment Building & B+G+3 Club and Convenient Shopping over Plot No. 292, 293, 294, 295, 296, 295/687 & 298, Khata No. 352/322, 352/237, 352/238 & 352/236 in Mouza- Pahala, Bhubaneswar, Dist- Khurda, Odisha of M/s Utkal Realtors Pvt. Ltd.
3. The proposed site is located at Pahala, Bhubaneswar, Odisha. The Geographical co-ordinate of the project site is: Latitude - 20° 20' 26.60" N & Longitude - 85° 53' 04.07" E. and the area comes under Survey of India Toposheet No- 73H/15. The project site is well connected with National Highway-16 (Jharpokharia-Chennai Road) at a distance of 0.13km. The nearest railway station is Bhubaneswar Railway station at a distance of approx 10.6 Km in South West direction. The nearest airport is Biju Pattnaik International Airport Bhubaneswar at a distance of approx. 13.4 Km in South-West direction from project site. The site is located adjacent to the local landmarks, Haridaspur Mosque, Jagannath Temple, Pahala Etc. There is no structure or encroachments on the site. The site is easily accessible from NH-16 Road.
4. Meteorology - The maximum temperature is about 36.0° C and the minimum temperature is 16.0° C felt in the area. The average annual rainfall in the area is 1326.16 mm.
5. Building Details Of The Project :

Total Plot Area	:	8,457.86 sqm
Kisam of Land	:	Gharabari
Residential Built up Area	:	26,718.91 sqm
Commercial Built up Area	:	4,271.30 sqm
Total Built up Area	:	30,990.21 sqm
Ground Coverage	:	2,875.00 sqm
Road & Paved Area	:	2,368.15 sqm
Green Belt Area	:	1,776.15 sqm (21.0 % Plot Area)
Total Parking Area	:	7,709.50 sqm (30 % of Residential FAR Area + 50 % of commercial FAR Area)
Height of the Building	:	59.45 m (Residential) & 14.95 m (Commercial)

6. Requirement for the Project:

- (a) **Statutory clearances Required /obtained:** BMC has provisionally Approved the builder plan vide letter no. 27719, dated 04.10.2019

Water & Sewerage connection from PH Division vide letter no. 1212, dated 21.01.2020

Ground Water application submitted to CGWA vide application no. 21-4/2492/OR/INF/2020, dated 18/05/2020. NHA1 permission for Storm & Wastewater discharge.

- (b) **Water requirement:**

Fresh make up of 75.0 m³/day will be required for the project which will be sourced from Ground water. Waste water of 95.6 KLD will be treated in a STP of 110 KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the Highway Drain.

- (c) **Power requirement:**

The daily power requirement for the proposed building is preliminarily assessed as 1056 KW (Solar System- 53.6 KW & CESU – 1002.4 KW). In order to meet emergency power requirements during the grid failure, there is provision of 2 nos. of DG set having 500 KVA capacities for power back up in the proposed building project.

For energy conservation, there will be 50 nos. of Solar Lighting poles (@72 Watt) has been proposed for Street & common area solar lighting, so

Energy conservation by using Solar Street Lighting = 50 x 72 = 3600 watt = 3.6 KW

Energy conservation by using Solar lighting for common area = 50 KW

Total Energy Conservation = (50+3.6) KW = 53.6 KW

Total Energy saving = 53.6/1056 = 0.050 x 100 = 5.0 %

- (d) **Rain Water Harvesting:**

Rain Water will be harvested through 4 nos. of recharging pits.

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

7. **Green Belt Development:** Green belt will be developed over an area of 1,776.15 sqm which is 21.0 % of the plot area; by using the local species like Neem, Karang, Golden Champa, Bakul, Bela, Bottle Palm, Cheekoo, Guava etc.

8. **Solid Waste Management:** From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/person/day, which will be about 279.0 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate coloured bins. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste.

Waste generated from Commercial people will be @ 0.15 kg/capita/day, which will be about 84.0 kg/day

The waste generated from floating population in residents will be @ 0.15 kg/day, which will be 12 kg/day. Solid waste from sweeping and Dry Garbage containing non-biodegradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved recyclers. Around 47.8 kg/day of STP sludge will be generated.

Solid Waste from Residential Population - 279.0 kg/day

Solid Waste from Commercial Population - 84.0 kg/day

Solid Waste from Floating Population - 12.0 kg/day

STP Sludge - 47.8 kg/day

Total Solid Waste Generation - 422.8 kg/day

STP Capacity – 110 KLD

9. Total Estimated population is ` 1260.
10. The total estimated Project cost is ` 30 Crores and Environment Management Cost is ` 2.2 Lakhs.
11. The Environment Consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar, Odisha** along with the proponent made a detailed presentation on the proposal before the Committee.
12. The SEAC in its meeting held on Dt: 04.06.2020 decided to take decision on the proposal after the proponent submits the certain information/ documents followed by site visit of sub-committee of SEAC.
13. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Land documents with kissam of land	Total Land Area of proposed project is 8458.00Sqm/91041Sqft. (2.090Acres) and the Kissam of land is Gharabadi. Detail Land documents with kissam of land are attached in Annexure-1 .	complied
2.	Copy of RoR indicating owner and type of land to be submitted	Total Land Area of proposed project is 8458.00 Sqm/91041.15 Sqft. (2.090Acres) and the Kissam of land is Gharabadi. The copy of 7 RoR is attached in Annexure-1 . One plot i.e. plot no. 294 is under Utkal Builders Ltd. Which is sister concern of Utkal realtor Private Ltd. We are submitting the GPA & Development agreement in favor of Utkal Realtor Private Ltd. In Annexure-1 for your reference.	complied
3.	Detailed basement height and construction design are to be submitted since it is located in low lying areas.	As per architectural designing, we are developing 2 MLCPs (Multi level car parking) /Podium + Service + 16 storied residential apartments since it is located in low lying area. All the floors having	complied

Proceedings of the SEAC meeting held on 13.09.2021

Environmental Scientist, SEAC

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		RCC Column & beam structure of suitable dimension above Natural Ground In case of amenity building, the level of NH is approx. 3 mt. high from NGL. So, its parking floor seems as basement from NH. Detailed design of it is attached in Annexure-2 .	
4.	Exact distance of the project from NH-5 is to be submitted.	The proposed building project site is adjacent to the National Highway-16 (previously NH-5). There is one existing service road along the NH. The project boundary is on service road with 2-3 meters of access road to our plot. The details of it are attached in Annexure-3 .	complied
5.	Permission from Govt. or private owners for discharge of non- monsoon water to municipality drain.	The National Highway Authority of India is developing side drain along the service road. The monsoon rain water & non sewer waste water after treatment in Effluent Treatment Plant shall be discharged into this drain after obtaining permission from NHA. Since the drain development work just commenced we are submitting a legal affidavit to comply with this query at the appropriate time. An affidavit is attached in Annexure - 4 .	Approval for disposal of storm water is attached. Legal affidavit in regard to this query is not attached as mentioned by PP in Annexure-4.
6.	Parking area calculation in ECS with consideration of floating population.	As per BDA, the parking requirement for Residential housing is 30% & for commercial & club complex is 50%. Accordingly the parking space required for residential area is 6021.75 sqm/64818.12 sqft which is equivalent to 201 ECS and the parking space required for commercial shop area is 1588.10 sqm/ 17094.31 sqft which is equivalent to 53 ECS. So the total ECS is required is 254 ECS. Remaining 91.95 sqm/989.75 sqft space & 4 ECS for floating population like visitor to residential houses & visitor for commercial. Detail parking area calculation in ECS is attached in Annexure-5 .	Complied.
7.	Detailed calculation of the percentage (5%) of usage of solar/ renewable energy.	The electricity installed capacity for this project is 1237.28KW, accordingly to adhere to the 5% (61.864 KW) norms of solar energy we have planned to install Photovoltaic cell Frame shape of 73.71 sqm/793sqft to be located on the terrace area, The solar power will be mainly used for open area lighting, common corridor lighting & corridor lighting. Total Energy saving is 5% which is generated from solar System. Detail	Complied.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		Calculation is attached in Annexure-6.	
8.	Detailed traffic density study with traffic management and traffic decongestion plan shall be done off to ensure that the current level of service of the roads with in 0.5 km radius of the Project and the NH is maintained and improved upon after the implementation of the Project. The study must address the cumulative impact of all developments and increase habitation for the next ten years.	The traffic study has carried on 14.09.2020 to 20.09.2020 and traffic density study report is vetted by IIT Bhubaneswar. Detail Traffic Density Study report along with IIT Bhubaneswar letter is attached in Annexure - 7	Complied.
9.	Site is located in flood prone area. High Flood Level (HFL) data to be collected and submitted.	The nearest gauging station in the upstream is Naraj (IB). The HFL at Naraj is 27.60m which is recorded in 31-Aug-82, Flood data of Naraj (IB) is given in Annexure -8 . The project site is in the downstream, but as per the flood vulnerability Map, the site is not located in the flood prone area. (Source - BMTPC)	Complied.
10.	Distance of the project site from NH-16 is 130 meter. Ownership of land area of 130 meter from the project site (document to be submitted) for discharge of treated water to drain.	The proposed building project site is adjacent to the National Highway-16 (previously NH-S). There is one existing service road along the NH. The project boundary is on service road with 2-3 meters of access road to our plot. The details of it are attached in Annexure-3 . Treated non sewer waste water will be discharged to the National Highway (NH) side drain.	Annexure-3 comprises google layout of project plots. Permission from the NHAI is to be submitted for discharge of treated water to drain.
11.	Status of approval of the building plan by the BDA along with copy of approval letter, if any to be submitted.	Bhubaneswar Municipal Corporation (BMC) has provisionally approved the Building plan vide letter no. 27719, dated 04.10.2019. BMC provisionally letter is attached in Annexure -9 .	Complied.
12.	Sketch of the Public drain including the permission from the authority of the drain to take the additional load of discharge of the treated water of this Project.	Our above said proposed project has been vetted by drainage division BMC vide letter no. 90059, dated 14.12.2020 for discharge of excess storm water to the BMC drain.	Complied.
13.	Status of permission for drawal of ground water from Water Resources Department, Govt. of Odisha.	NOC has been granted by Regional Director Central Ground Water Authority vide application no.21-4/2492/OR/INF/2020, dated 18-05-2020 Application copy is attached in Annexure - 10 .	Complied.
14.	This G+16 building has projected height of 59.9	As per conditional approval obtained from BMC, the height of building is	Complied.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	meters. Permission/ NOC from Airport authority is needed. Status of permission of Airport Authority of India.	63.65 mt. As per Guidelines for Colour coded Zoning Map (CCZM) from Airport Authority of India on dated 18.07.2017, Height Clearance is not required from AAI. Guideline is given in Annexure- 11 . However, to be on safe site we have already submitted application on dated 04.03.2021 to AAI for the said permission after obtaining the survey report.	
15.	4 RWH pits is much less which shall be increased adequately. Design to be submitted.	Instead of traditional percolation pits, we are providing bore well of 200mm dia. with percolation allowed at the aquifer level. Where we are drawing water for residential use.6 Nos. of 11.3 Cu.mtr. each Rainwater Percolation pits are proposed. Hence total in-total proposed volume of pit is 67 Cu.mtr. Detailed design calculations with section of percolation pit as per BDA and BMC norms provided in Annexure-12 .	Complied.
16.	Location of 2 DG sets along with venting height shall be justified that it will not cause air and noise pollution to inhabitants there.	For required backup power, 2 nos. of DG Sets are proposed. The exhaust shall be provided as per pollution norms laid by CPCB. Since our DG Sets location are along the compound wall, we proposed the vent pipe along the building wall to highest point of the building & vent is 3 m in highest point. Detail proposal for DG Sets is attached in Annexure- 13 .	Complied.
17.	Three tier greenbelt shall be developed on periphery with more number of plants. Min, max and average width of greenbelt be furnished.	We proposed to develop three tier hierarchal greenbelt along the periphery of the building and the width of the Green Belt is max. 3m and min.1.0m. Green Belt layout is given in Annexure-14 .	Complied.
18.	Water balance during monsoon and non-monsoon period to be submitted.	Total Domestic and Flushing Water Requirement of the proposed project is 87.43 KLD and 49.57 KLD respectively. We have tried to maintain zero discharge, some of the treated water is re-used for flushing purpose, car washing purpose and gardening purpose (in non-monsoon period) and surplus treated water is discharged into BMC drain adjacent to site. Storm water collected during rain will be discharged into rainwater percolation pits. The details of Rainwater recharge pit are also we are attaching in Annexure- 12. The detailed Water Balance during Non-monsoon & monsoon season is given in Annexure-15	Complied.

14. The SEAC in its meeting held on Dt: 28.06.2021 after detailed discussion, recommended the following:
- A. Decision on grant of Environmental Clearance for the proposal shall be taken after the proponent furnish the following information / documents:
- Approval for disposal of storm water is attached. Legal affidavit in regard to this query is not attached as mentioned by PP in Annexure-4.
 - Permission from the NHAI is to be submitted for discharge of treated water to drain.
 - An undertaking in form of legal affidavit indicating that the construction work has not been started.
- B. Environmental Clearance can be considered after receipt of information / documents from the proponent as stated above. The Sub-Committee of SEAC will visit the site within 6 months from the date of issue of Environmental Clearance to verify the progress of the project as well as conditions stipulated in Environmental Clearance. However, either during the visit of the SEAC Sub-committee and/or at any time, if it is noticed that stipulated conditions on which EC is granted is not in place or found otherwise, steps will be taken for revocation of EC granted.
15. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
(i)	Approval for disposal of storm water is attached. Legal affidavit in regard to this query is not attached as mentioned by PP in Annexure-4.	Submitted the legal affidavit regarding disposal of storm water as Annexure – 1 .	Complied
(ii)	Permission from the NHAI is to be submitted for discharge of treated water to drain.	We have got the letter from NHAI towards deposit of fees for issuance of NHAI NOC as Annexure -2 . We will submit it shortly.	Permission from the NHAI need to be submitted for discharge of treated water to drain.
(iii)	An undertaking in form of legal affidavit indicating that the construction work has not been started.	Submitted the legal affidavit regarding construction work has not been started as Annexure – 3 .	Complied

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

- Permission from the NHAI need to be submitted for discharge of treated water to drain.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CHROME ORE BENEFICIATION UNIT OF THROUGHPUT CAPACITY 18,500 TPA OVER AN AREA OF 2.54 ACRE AT VILLAGE: -BYREE, PO - BYREE, DIST- JAJPUR OF M/S A3 MINERALS AND EXPORT PVT LTD, SRI. AKSHAYA KUMAR SAMAL, PROPRIETOR - TOR

- 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

Proceedings of the SEAC meeting held on 13.09.2021

Environmental Scientist, SEAC

thereafter.

2. The project is coming under category 'B2' as the throughput capacity of the beneficiation plant is 18500 TPA (<20,000 TPA) and requires environmental clearance as per EIA notification 2006 and its amendment no. J-13012/12/2013-IA-II (I).
3. M/s A3 Minerals and Metal Export Pvt Ltd proposes for establishment of Chrome ore Beneficiation plant over an area of 2.545 Acres with throughput capacity of 18,500 TPA within the existing Chrome monolithic unit. The promoter of the project is M/s A3 Minerals and Export Pvt Ltd, and Proprietor of the project is Sri. Akshaya Kumar Samal.
4. The existing chrome monolithic unit obtained consent to establish vide letter no. 1198/IND-41 on dated 10.07.2020.
5. The existing Chrome monolithic unit was operating under the ownership of M/s R.C. Metals Industries. The consent to operate was transferred in the name of M/s A3 Minerals on 23.10.2019 for production of 625 TPM monolithics and other refractories.
6. Further M/s R.C Metal Industries obtained consent to operate for production of 30 TPM chrome concentrate which was also transferred in the name of M/s A3 Mineral.
7. The proposed unit is bounded by Latitude: 20°38'25.0"N Longitude:86°01'38.5"E and is featured under the Toposheet No.- F45 T14/F45U2. Khata No- 1268/439, Plot no: 4149/4683, Khata no: 1268/433, Plot no: 4146, Khata no: 1268/432, Plot no: 4157/4872, 4156/4871, Khata no: 1268/431, Plot no: 4152, Khata no: 1268/436, Plot no: 4158, Khata no: 1268/437, Plot no: 4149, Khata no: 1268/438, Plot no: 4159 & Kissam - Gharabari and belongs to the project proponent located at Village - Byree, Po - Byree, Dist - Jajpur, Odisha. The land area required for the project will be 2.545 Acres.
8. The mining lease area is also accessible NH-5 through Kalkala Chatia road which pass near the project site. Bairi railway station is nearest at a distance of 1.2 km from the M.L area. Nearest airport is Biju Pattnaik Bhubaneswar Airport 50 Kms from project site. Nearest river/Jor is Bansi Jor at 2.5km, Mendhakhai river at 8 km & Birupa River at 10 km and. Nearest town is Chatia at 5 km. Nearest forest Dalijoda Reserve forest at 0.3km. Nearest habitation is within 3km from project site. Kapilash wild life sanctuary – 11km. There is no wild life sanctuary, corridor, National park, biosphere reserve located within 10 Km buffer zone of the project site.
9. Raw material linkage has been established for the proposed plant from sukinda chromite mines of OMC, M/s B.C. Mohanty and M/s Misrilal & Sons. which is located at a distance of 35 Km from the project site. The transportation of ore from the mines to the project site will be done through covered trucks.
10. The process is a beneficiation process of conversion of low grade chrome ore having content less than 40% of Cr₂O₃ into semi high grade ore having content 50-65% of Cr₂O₃.
11. Generation of solid waste (tailings generated =6500TPA having <10% Cr₂O₃) will be properly stored in an impervious platform in earmarked area and will be blended with chrome refractory mortar and sold. So there will be no waste generation from the proposed project. However taking into consideration of maximum storage for 1 year on an area of 0.08 Acres has been demarcated for tailing storage.
12. **Employment Potential** - Proposed employment generation from proposed project will be 12 direct employment and 50 indirect employment.
13. **Power Requirement** - The electricity load of 100 kVA will be procured from CESU, Odisha. Also proposed to install 125 KVA DG set.
14. **Water Requirement** - Total water Consumption for the proposed project will be 153 KL/day out of which 13 KLD will be the makeup water. About 95% of the water will be recirculated in the process and only 5% of the will be makeup water. There will be no waste water generation from the project. Domestic waste water will be treated through

soak pit via septic tank and industrial waste water generated will be treated by settling and reused in the process.

15. The project cost is estimated to be ` 283 lakhs.
16. The project proponent along with the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** made a detailed presentation on the proposal.
17. The Committee observed the following:
 - a) The proponent has applied to consider their project as Category-B2 as per MoEF&CC, Govt. of India O.M. No. J/13012/12/2013-IA-II(I), dated 24.12.2013 as throughput of Mineral Beneficiation activity is less than 20,000 TPA involving only physical beneficiation.
 - b) The MoEF&CC, Govt. of India O.M. No. J/13012/12/2013-IA-II(I), dated 24.12.2013 stipulates the Mineral Beneficiation activity listed in the schedule as Category-B will be treated as Category-B2 with throughput \leq 20,000 TPA, involving only physical beneficiation.
18. The SEAC in its meeting held on Dt: 14.12.2020 decided to take decision on the proposal after receipt of the following from the proponent followed by a site visit of sub-committee of SEAC.
 - i. Date and year of establishment of existing unit.
 - ii. Copy of Consent to Establish and Consent to Operate from State Pollution Control Board, Odisha, Bhubaneswar for the existing plant (Chrome Monolithic Plant) to be submitted.
 - iii. Copy of conversion of land for industrial use as this is an existing unit.
 - iv. Details of Technology to be used for process of treatment of Hexavalent Chromium in waste water.
 - v. Detailed linkage of raw materials such as source and agreement copy with the party for supply of raw material i.e., low grade Chromite Ore.
 - vi. Design of tailing pond and detailed life calculation of area 0.08 acres required for tailing storage including ETP.
 - vii. Study of Waste Water Management.
 - viii. Details of ore transportation to the plant.
 - ix. Details of CSR activities already covered under the existing project.
 - x. Details of Zero discharge proposal.
 - xi. Detailed Process Technology for Chrome Ore Beneficiation.
 - xii. Water Balance for monsoon and non -monsoon period.
 - xiii. Details of leachate management.
 - xiv. Details of existing green belt and proposed with plant.
 - xv. Revised Plant layout to scale for the proposed Plant super imposing the existing setups/infrastructures.
19. The sub-Committee of SEAC visited the project site on dated 16.04.2021 and following observations and recommendations were made:
 - a) It is an existing operating chrome ore beneficiation & Monolithic unit as stated by the proponent to have been operating prior to 2006 & therefore, Environmental

Clearance was not required and not been obtained till now.

- b) Now they have sought Environmental Clearance since they want to increase the production / beneficiation capacity to $\leq 18,500$ MT/ annum.

As such, they may be asked to furnish the following along with EIA report.

- i. Technical write up on process & operation.
 - ii. Current & proposed production / beneficiation.
 - iii. Production / beneficiation quantity per cycle and cycle time.
 - iv. Material balance & tailing management.
 - v. List of equipments and their capacities.
- c) Raw material (Chrome ore) was found to be in stock in heap under cover shed. To confirm maximum inventory at any time of raw material of low grade chrome ore and beneficiated high grade product & Monolithic and the corresponding area required for storage of the same with calculation including the layout with the plant layout.
- d) No garland drain / drain was found on the south side of the cover shed where the raw material / finished products are stored and was advised for the same.
- e) Four nos. water tanks (Cemented chambers) with half full/ full with water were seen and stated to be for fresh / make up water, waste water / treated waste water & water harvesting pond and found to be interconnected as well as an ETP. But their capacities & networking could not be explained well. Therefore, their capacities with dimensions and the net working along with ETP capacity (with supporting document) be submitted along with EIA study containing water management & water balance.
- f) Drain management with drain network be submitted.
- g) Water harvesting details and the use of it is be submitted.
- h) A bore well is existing and stated to be used for both process water as well drinking purpose. As such, NOC from CGWA & permission from Water Resources Deptt, Govt of Odisha is required to be submitted.
- i) One layer of Plantation was found alongside the boundary and there is enough space for further planation for required species. Thus, the proponent was advised to have two layer of plantation in hierarchy of required species in consultation with local Govt. Forest authority / botanist as per the norm to cover 33% of the local area.
- j) Only one number of gate was found both for the vehicle for goods and the employees. So, to avoid conflict between incoming & outgoing vehicles, two separate gates are requires for goods & a separate gate for employees. Accordingly, the proponent may submit the layout of the plant with the provision of gate & their dimensions.
- k) Form the plant entry gate to the RD public road, there is a gap of about 100-200 mtrs which is presently being used for movement of vehicles by the proponent and stated to be "Anabadi" land. As such, the proponent is required to submit the 'ROW' from the concerned authority / land owner for perennial use of it.
- l) The vehicles of the plant are plying through few villages before crossing level crossing / before meeting NH. As such, necessary permission may be obtained for

use of the village road from the Panchayats duly validated by concerned B.D.O.

- m) No provision of solar power found & hence to be provisioned / installed for 5% of total power consumption.

The above complies may be sought along with EIA study along with the document on conversion of land for "Industrial use"

20. The SEAC in its meeting held on Dt: 28.06.2021 decided to take decision on the proposal after the proponent furnish the following information / documents along with EIA study report as pointed out by the Sub-Committee of SEAC in addition to the information/ documents as sought vide SEAC letter no. 797(2)/ SEAC-(Misc)-28, dated: 24.12.2020.
- I) Technical write up on process & operation.
 - II) Current & proposed production / beneficiation.
 - III) Production / beneficiation quantity per cycle and cycle time.
 - IV) Material balance & tailing management.
 - V) List of equipments and their capacities.
 - VI) Raw material (Chrome ore) was found to be in stock in heap under cover shed. To confirm maximum inventory at any time of raw material of low-grade chrome ore and beneficiated high-grade product & Monolithic and the corresponding area required for storage of the same with calculation including the layout with the plant layout.
 - VII) Proposal for garland drain / drain on the south side of the cover shed where the raw material / finished products are stored.
 - VIII) Four nos. water tanks (Cemented chambers) with half full/ full with water were seen and stated to be for fresh / make up water, waste water / treated waste water & water harvesting pond and found to be interconnected as well as an ETP. But their capacities & networking could not be explained well. Therefore, their capacities with dimensions and the networking along with ETP capacity (with supporting document) be submitted along with EIA study containing water management & water balance.
 - IX) Drain management with drain network be submitted.
 - X) Water harvesting details and the use of it is be submitted.
 - XI) A bore well is existing and stated to be used for both process water as well drinking purpose. As such, NOC from CGWA & permission from Water Resources Deptt, Govt of Odisha is required to be submitted.
 - XII) One layer of Plantation was found alongside the boundary and there is enough space for further plantation for required species. Thus, the proponent was advised to have two layer of plantation in hierarchy of required species in consultation with local Govt. Forest authority / botanist as per the norm to cover 33% of the local area.
 - XIII) Only one number of gate was found both for the vehicle for goods and the employees. So, to avoid conflict between incoming & outgoing vehicles, two separate gates are requires for goods & a separate gate for employees. Accordingly, the proponent may submit the layout of the plant with the provision of gate & their dimensions.
 - XIV) Form the plant entry gate to the RD public road, there is a gap of about 100-200 mtrs which is presently being used for movement of vehicles by the proponent and

stated to be “Anabadi” land. As such, the proponent is required to submit the ‘ROW’ from the concerned authority / land owner for perennial use of it.

XV) The vehicles of the plant are plying through few villages before crossing level crossing / before meeting NH. As such, necessary permission may be obtained for use of the village road from the Panchayats duly validated by concerned B.D.O.

XVI) No provision of solar power found & hence to be provisioned / installed for 5% of total power consumption.

XVII) The document on conversion of land for “Industrial use”.

21. The project proponent has furnished compliances as desired by the committee vide SEAC letter no. 797(2)/ SEAC-(Misc)-28, dated: 24.12.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Date and year of establishment of existing unit.	The existing unit was established by M/s R.C. Metals Industries and transferred to M/s A3 Minerals. The date of establishment of existing unit was 19.05.2004. Copy of CTE in the name of M/s R.C.Metals attached Annexure1.
(ii)	Copy of Consent to Establish and Consent to Operate from State Pollution Control Board, Odisha, Bhubaneswar for the existing plant (Chrome Monolithic Plant) to be submitted.	The Consent to establish for the existing unit is in the name of M/s. R.C Metals Industries copy attached Annexure 1. Further consent to operate has been obtained for the existing unit by M/s. A3 minerals vide letter no. 1983/KNG/IND/41 dated 23.10.2021. Copy attached as Annexure 2. Further A3 Minerals obtained consent to establish for the proposed enhancement of chrome ore beneficiation plant vide letter no. 1198/IND- on dated10.07.2020. The copy of CTE attached as Annexure 3
(iii)	Copy of conversion of land for industrial use as this is an existing unit.	Converted for industrial use. The copy of the document attached as Annexure 4.
(v)	Details of Technology to be used for process of treatment of Hexavalent Chromium in waste water.	Detail technology for treatment of hexavalent chromium in waste water is attached as Annexure – 5.
(v)	Detailed linkage of raw materials such as source and agreement copy with the party for supply of raw material i.e., low grade Chromite Ore.	The raw material i.e. low grade chrome ore will be sourced from mines of Odisha Mining Corporation and Misrilal Mines, Sukinda which is located at a distance of 35 km from the project site. The transportation of ore from the mines to the project site will be done through covered trucks. Linkage document attached Annexure 6.
(vi)	Design of tailing pond and detailed life calculation of area	Detail design and calculation of tailing pond attached as Annexure 7.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	0.08 acres required for tailing storage including ETP.	
ii)	Study of Waste Water Management.	Detail waste water management plan has been given in Annexure 5 .
ii)	Details of ore transportation to the plant.	The raw material requirement for beneficiation unit will be 18500 TPA i.e. 66 TPD. The raw material will be stored in a covered storage area within the plant premises. The raw material of chrome ore beneficiation plant is low grade chrome ore (26-40% Cr ₂ O ₃). The raw material i.e. low-grade chrome ore will be sourced from mines of Odisha Mining Corporation, Sukinda which is located at a distance of 3SKm from the project site. The project site is well accessible through NH 5 and Kalkala – Chatia road (50m connecting to Highway) and raw material an transportation will be carried out by covered trucks. About 6 trucks will be used for transportation of raw material and product. The transportation route map attached for reference. Annexure - 8
x)	Details of CSR activities already covered under the existing project.	Details of CSR attached as Annexure-9
x)	Details of Zero discharge proposal.	Details of Zero liquid discharge proposals attached Annexure -10 .
xi)	Detailed Process Technology for Chrome Ore Beneficiation.	Detailed process for Chrome Ore Beneficiation attached Annexure 11
ii)	Water Balance for monsoon and non -monsoon period.	Copy of water balanced attached as Annexure-12
ii)	Details of leachate management.	Details of leachate management plan attached Annexure 7 .
v)	Details of existing green belt and proposed with plant.	Green belt for the proposed project will be developed over an area of 0.84 Acre i.e (33% of total area). Detail green belt plan attached Annexure 13 .
v)	Revised Plant layout to scale for the proposed Plant super imposing the existing setups/infrastructures.	Copy of Layout plan attached as Annexure-14 .

22. The SEAC observed that the proponent has not furnished the information / documents as sought vide SEAC letter no. 427(5)/ SEAC-Misc.28, dated 05.07.2021 w.r.t observation of sub-committee of SEAC during site visit.

After detailed discussion, the SEAC decided to take decision on the proposal after receipt of compliance to the SEAC letter no. 427(5)/ SEAC-Misc.28, dated 05.07.2021 w.r.t observation of sub-committee of SEAC during site visit.

ITEM NO. 03

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR ANJIRA STONE QUARRY BSQ NO-1 OVER AREA 45.50 ACRES OR 18.41 HA. AT VILLAGE- ANJIRA, TAHASIL - DHARMASALA, DISTRICT- JAJPUR - SUBMITTED UNDER CLUSTER - FINAL EIA/EMP REPORT OF SRI TAPAN KUMAR NAYAK - EC

1. This is a proposal for Environmental Clearance of Anjira stone quarry BSQ No-1 over area 45.50 acres or 18.41 Ha. at Village- Anjira, Tahasil - Dharmasala, District- Jajpur.
2. Anjira Stone Quarry Mining Project is a proposed project of Shri Tapan Kumar Nayak. located at Plot no. 332/516(P),673/845(P),1343/845(P) & 3597/845(P), BSQ No. 1, Village Anjira, Tehsil Dharmasala, District Jajpur (Odisha) over an area of 18.41 ha.in Khata No. – 1729.
3. The proposed area has been intended in favour of Sri Tapan Kumar Nayak, Umapada, Post & Dist- Jajpur (Odisha) for the period from 2017-2018 to 2021-2022 vide letter no. 2258 on dated 28.04.2017 issued by Tahsildar, Dharmasala. Total lease area is 45.50 Acres (18.41 ha), which is Govt. hills land (Parbata - 1 kizam).
4. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under, Category “B1”.There are seven other existing Stone mining projects located within 500 meters from the periphery of the lease area. Thus, the total area within 500 m periphery is becoming 91.0 Acres (36.82 ha.)
5. The SEAC, Odisha prescribed ToR vide letter no. 500/SEAC-139 Dated-19.06.2018
6. Total mining lease area of 18.41 ha is Government Hill Land, NOC from DFO, Dharmasala obtained vide letter no. 281 on dated 24.01.2018. The area does not fall in forest land or wild life sanctuary or agricultural land.
7. There are 7 surrounding mines located within 500m radius of lease area confirming to cluster situation with total area of 36.82 Ha and EIA/EMP study carried out taking into consideration of cluster.
8. The Mining Plan with Progressive Mine Closure Plan has been approved by the Deputy Director Mines, Jajpur Memo No. 1495 dated 01.08.2017.
9. Competent authority of Revenue Department (Revenue Inspector, Balrampur-II) has demarcated allotted lease area over 45.50 Acres (18.41 Ha) and the total mining lease area is Government hills Land.
10. Connectivity – The lease area is located in village - Anjira, Tahasil - Dharmasala, District- Jajpur, Odisha bearing Plot no. 332/516(P),673/845(P),1343/845(P) & 3597/845(P), present in survey of India toposheet no. 73L/1 & 73 H/13 & between latitude of 20°50’22.72” N to 20°50’39.09” & Longitude: 86°01’46.71” E to 86°02’15.50” E. The lease area is connected by NH-200 & NH 5 which are at a distance of 100m and 11km away. Nearest railway station is Jenapur railway station at 1.6 Km, Nearest Airport is Biju Patnaik International Airport, Bhubaneswar at a distance of 60km. Nearest town is Jajpur. Nearest Reserve forest is Nischinta RF - 5.0 Km & Balipashi RF - 7.0 Km. Kapilash sanctuary at 15km away. There is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, site within 10 km radius of the mine lease area. Nearest river is Brahmani at 3km away. Nearest habitation is Anjira at 1km away.
11. The total mineable reserve is 22,76,425 tonnes & the production capacity of the proposed project is 29,200 m³, thus the life of mine is 78 years. At the end of mining plan period,

total mined out area will be 1.076 ha.

12. The method of mining is proposed to opencast semimechanised method with drilling and blasting. Water required for the project will be 21.14 KLD. Drinking water procured from the existing sources like tube well by tankers of Village- Anjira. Water for dust suppression and green belt will be sourced from rain water stored in the mining pit. No Ground water Abstraction for the mining. Water sprinkling on mining quarry, dumping area and haul road during dry wind periods, using a water tanker.
13. During the plan period there is the proposal for plantation of about 2430 sapling over an area of 6 Ha and during conceptual period 6.00 Ha of the land will be covered under plantation with about 2430 saplings.
14. Baseline studies were carried out in the study area (10 km radius) during the Post Monsoon Season from Oct 2017 to Dec 2017. The samples were collected from 8 different locations for ambient air quality; Soil Quality and noise monitoring and 5 different locations for surface water quality; ground water quality.
15. Public hearing was conducted on 29.12.2018 at 11:00 AM at Dharmasala Bhawan near Dharmasala Block of Jajpur.
16. The total cost of the project is ` 1.0 Crore and the cost towards EMP for environmental protection and safety measure is proposed 1.50 Lakhs per annum. Capital Cost: ` 85.0 Lac/Annum and Recurring Cost: ` 15.0 Lac/Annum
17. The project proponent along with the consultant **M/s Kalyani Laboratories (Pvt.) Ltd. Pahala, Bhubaneswar** made a detailed presentation on the proposal.
18. The SEAC in its meeting held on Dt: 11.09.2020 decided to take decision on the proposal after receipt of certain information / documents from the proponent.
19. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
(i)	Environmental Clearance status and legal status of seven mines present within 500 m from the periphery of the lease boundary. And if earlier EC granted, half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar duly certified by the letter to be submitted.	Details of Environmental clearance status and legal status of seven mines present within 500m of the lease boundary attached Annexure -1.	-
(ii)	Budget towards Environmental Management Plan is low.	Details budget towards Environmental management plan attached Annexure-2.	-
(iii)	Details of Waste management and haulage road management & maintenance perpetual and perennial.	Details of waste management and haulage road management & maintenance perpetual area attached Annexure -3.	Not submitted, as there is full usage of mineral excavated in mining.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
iv)	Year wise quantity of waste generation and its storage plan with details of site plan and area.	Details Year Wise Quantity of waste generation and its storage plan with detail site plan and area attached Annexure 4.	Same as above
v)	Mitigation measures taken to reduce fluoride content in water and fresh analysis report is to be submitted.	New test report attached for reference Annexure 5.	-
vi)	Details CSR activities covered under cluster approach.	Details of CSR activities attached Annexure 6.	-
vii)	Plantation of trees within first year in safety zone to prevent air pollution.	Details plantation plan will be completed within 1 year of plan period. Detail plan attached Annexure 7.	-
iii)	Point wise commitment made on the issues raised by the public during the public hearing.	Point wise commitment made on the issues raised during public hearing attached Annexure -8.	-
ix)	Traffic study and management with mitigation measures for decongestion by an expert of repute at intersection with public road be submitted.	Traffic study and management with mitigation measures attached Annexure 9.	-
x)	Storm and surface runoff water management during monsoon be submitted.	Storm and surface runoff management during monsoon period attached Annexure 10.	-
xi)	Post mining plans.	Post mining land use plan attached Annexure 11.	-
xii)	Distance of lease boundary from nearby habitation duly certified by the Tahasildar.	Certificate from Tahasildar regarding the distance of lease boundary from nearby habitation attached Annexure 12.	-

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar on behalf of the proponent, the SEAC approved the EIA/EMP report in cluster approach and recommended the following:**

- a) The SEIAA, Odisha may consider to grant Environmental Clearance to individual lease (for **08 nos.** quarry leases including the present one) in cluster with specific conditions as per **Annexure-A** after receipt of individual applications from the lessee in cluster along with following documents.
 - i) Filled in form-I of individual lease
 - ii) Prefeasibility report of individual lease
 - iii) EMP of individual lease.
 - iv) Approved Mining Plan of individual lease
 - v) DLC status of the lease area from concerned DFO as certified by the concerned Tahasildar.
 - vi) An Undertaking by the lessee not to use wagon drilling blasting to be submitted. Accordingly, specific condition to be stipulated in EC of individual lease.

- vii) No storage and usage of blasting materials/explosives inside the lease area without license/permission/authorization from competent Authority as per Indian Explosives Rules, 1983 shall be ensured by the lessee. An undertaking to this effect shall be submitted by the lessee. Accordingly, specific condition to be stipulated in EC of individual lease.
- viii) Traffic Density study at Crusher points is found to be not undertaken and so also silt management to arrest or removal of in-grassed silts to surrounding agricultural fields if any. Thus, an undertaking needs to be obtained from individual lessee.

ITEM NO. 04

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF PROPOSED INCOME TAX RESIDENTIAL HOUSING COMPLEX OF INCOME TAX AUTHORITY LOCATED AT GADAKANA, BHUBANESWAR, DIST-KHURDA WITH TOTAL BUILT UP AREA- 20548 SQ.MT OF SR. SAROJ KUMAR MOHAPATRA – EC

1. The proposal is for Environmental Clearance for construction of proposed Income Tax Residential Housing complex of Income Tax Authority located at Gadakana, Bhubaneswar, Dist-Khurda with total built up area- 20548 sq.mt of Sr. Saroj Kumar Mohapatra.
2. The project falls under category “B” or activity 8 (a)-Building and Construction projects under EIA Notification dated 14th September 2006 as amended from time to time.
3. The Income Tax department is proposing to construct housing complex for staff Quarters and other amenities for employees at Gadakana, Bhubaneswar over an area of 5.0 acres (20234.28 Sq.M) on Plot No. 29 (PT), 33 (PT) and 4600 (PT). Total built up area of the Project is 20548 Sq mts. As per the observation of SEAC, the land kism shall be converted from Patita to Gharabari through The Tahasildar, Bhubaneswar
4. The project site falls under Toposheet no. 73H/15 and geographical co-ordinates of the project site is: Latitude -20°19'52.27 to 20°19'56.65 and longitude 85°49'50.19 E to 85°49'49.99 E. The present access to the Site is from the Southern Side of the land through a land proposed for Bus Stand by GAD department – Government of Odisha. Further there will be a 40'0” wide Road on the Northern Side connecting the main road in front of Kulu Charan Park to the proposed 100'0” road on the Northern Side boundary of the Plot. Nearest Highway - NH-5 is 1.93 km from project site. Nearest Railway Station – New Bhubaneswar Railway Station which is 3.9 km towards from the project. Nearest Airport - Biju Patnaik International Airport at 17.2 km from project site. The Environmental sensitive areas from project site are - Nearest archaeological site is Khandagiri Caves – 8.9kms, Nearest rivers are Mahanadi-15.5km & Kuakhai – 18.5km, Nandankanan zoo – 7.3km, Chandaka Elephant sanctuary – 9.5km, Chudanggarh Reserve Forest – 8.31km.
5. The site is coming under development plan of Bhubaneswar Development Authority. The project comprises of the following: 82nos of type-III, 22 nos of type-IV, 5 nos of type-V, & 6 nos of type -VI flats with community center & children park.
6. The Building Details Of The Project:

Sl. No.	Description	Coverage area
1	Total Plot Area	20234.28 Sq. Mts
2	Total Built up area	20548 Sq. Mts
3	No. Of residential Blocks	4nos
4	Total area of Residential Buildings with	20547.75sq.mts

Proceedings of the SEAC meeting held on 13.09.2021

Environmental Scientist, SEAC

	community hall	
5	Community Hall (Ground Plus first, second & third floor)	1826.64sqm
6	Mandatory Green Cover	4024.53sqm
7	Parking	10992.3sqm
8	FAR	1.06
9	Total number of units	82nos
10	Maximum height of building	30m

7. **Water requirement:** Total water requirement for the project will be 95 KLD. Out of the total water requirement 38KLD will be flushing water which is the recycled water and 57 KLD will be domestic water requirement which will be sourced from PHED supply, Bhubaneswar.
8. **Waste water details:** There is the proposal for installation of 100 KLD STP and 100 KLD GWTP for treatment of waste water of the housing complex. There will be proposal for dual plumbing system and treated waste water will be utilized for flushing, gardening and washing purpose. As an interim arrangement, we will be providing a safety tank and soak pit of adequate capacity for storage of 7 KLD of surplus treated STP water. The safety tank will be evacuated intermittently by tankers for disposal in BMC sewerage line elsewhere. This arrangement will continue till the JICA project of laying sewerage line and common STP project is made operational in that area.
9. **Power requirement:** Electricity requirement for the apartment will be 1.2 MW/hr which will be supplied from the central Electricity Utility, Bhubaneswar, Odisha. Power Backup: The 4 no. of DG sets will be changed to 2 no. of higher capacity and installed at the suitable places after due consideration of pre-dominant wind direction to avoid air pollution from entering the dwelling house of the colony. Appropriate venting mechanism upto the roof top of the tallest building shall be installed for dispersion of vent gases without affecting the dwelling house. The 5% of installed electrical power will be sourced from solar power in our colony. All the terrace of the building will be utilized for fixing the photo voltaic cell frames for production of power and used in the common area of the township.
10. **Rain Water Harvesting:** Rain Water will be harvested and recharge through 53 cu.m recharge pits from the plot area.
11. **Parking Requirement:** Total parking area required 10885.33 Sq.mt. for (Type-III&IV blocks) basement floor parking area is 4037.04 Sq.mts and for (Type V&VI blocks) basement floor parking area is 1729.04Sq mts. Visitors parking area 707.06sq mts. The total parking area will be provided 4519.16sq.mt.
12. **Firefighting Installations:** Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (part-4). In view of the recommendation of Fire Safety Wing of Home Department, Government of Odisha; the road around the towers shall be widened from 6m. to 7.5 m. for easy movement of fire brigade vehicles in the emergency situation.
13. **Green Belt Development:** Out of the total area, green belt will be developed over an area of 4024.53 sq.m (20% of the plot area) and 990 trees will be planted.
14. **Solid Waste Management:** Total amount of solid waste generated of the project will be 250 kg/day which will be disposed through BMC. Inorganic waste per day is 100kgs, Organic waste per day is 150kgs. As per advice of SEAC, we are committed to provide compost pits

at suitable locations in addition to the installation of organic waste converter equipments within the colony.

15. The total population of project after proposed will be 625 persons.
16. The estimated project cost is ` 91.53 Crores
17. The project proponent along with the consultant **M/s Kalyani Laboratories Pvt. Ltd., Bhubaneswar** made a detailed presentation on the proposal.
18. The SEAC in its meeting held on Dt: 24.06.2021 decided to take decision on the proposal after receipt of certain information / documents from the proponent.
19. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	The "Kisam" of the land is "Patita" and hence, needs to be converted to "Gharabari" before starting the construction of the project. An undertaking to this effect shall be submitted	Undertaking regarding conversion of the land to Gharabari Kissam is attached Annexure 1
(ii)	Parking in terms of ECS (both 2 wheelers & 4 wheelers) for occupants, floating population & visitors with locations needs to be submitted in tabular form	Details of parking attached Annexure 2
(iii)	Treated waste water is stated to be discharged to existing sewer drain located at 200 mtrs distance. Since, the existing sewer line is not yet operational, a contingency plan for discharge of treated waste water need to be submitted. Or else, the housing project shall not be made operational till such time, the sewer line is made operational	The treated waste water to be discharged is only 7 KLD. We will make arrangements for 200 construction workers to use one septic tank during project construction and also latter on the inhabitants will use it till sewer line is active. After the STP treatment and recycling only 7 m3 water needs to be discharged and will be discharged to the septic tank of 200 Users. The temporary septic tank will be constructed near the proposed STP.
(iv)	Fire clearance from the appropriate authority need to be obtained and submitted	Document regarding fire clearance is attached Annexure 3
(v)	Plan for solar power with exact calculations to be submitted	Solar power calculation attached as Annexure 4
(vi)	04 nos. of DG sets shall be changed to 02 no. of higher capacity and installed at the suitable places after due consideration of pre-dominant wind direction to avoid air pollution from entering the dwelling house of the colony. An undertaking to this effect along with DG set location w.r.t wind direction, stack height with layout / installation drawing of the stack /	Detail location of DG set and capacity as Annexure 5

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	exhaust pipe be submitted	
vii)	Entry & exit gates with pedestrian pathways be shown with dimensions	Layout plan showing the entry and exit gate attached Annexure 6
iii)	Measures to be taken to control noise and dust pollution	Detail pollution control measures for air noise attached Annexure 7
ix)	An undertaking that construction activity for the project has not been started	Undertaking attached Annexure 8

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories Pvt. Ltd., Bhubaneswar** on behalf of the project proponent, the SEAC recommended for grant of Environmental Clearance valid for a period of 7 years with stipulated conditions as per **Annexure-B**.

However, the Sub-Committee of SEAC will visit the site within 6 months from the date of issue of Environmental Clearance to verify the progress of the project as well as conditions stipulated in Environmental Clearance. However, either during the visit of the SEAC Sub-committee and/or at any time, if it is noticed that stipulated conditions on which EC is granted is not in place or found otherwise, steps will be taken for revocation of EC granted.

ITEM NO. 05

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

1. This is a proposal for Environmental Clearance for construction of B+G+6 Multistoried apartment by Altrade Construction Pvt. Ltd., Bhubaneswar over an area of 1.80 acres Ghatikia at Bhubaneswar of M/s Altrade Construction Pvt. Ltd. with total built-up area of 24273.99 m² (EC).
2. The project area of M/s Altrade Constructions Pvt. Ltd. is 1.8 acres bearing plot no- 4363, 4365/9551 & 4366 and Khata No-1988/9 in village - Ghatikia, P.S- Chandaka, Bhubaneswar. The area is located in Survey of India Toposheet No. 73H/15. The project site is connected by 18.3 m wide road connected to Ghatikia main road. The Geographical coordinate of the project site is: Latitude – 20°16'12.08"N & Longitude - 85°46'35.52"E. The project site is well connected with National Highway NH-16 at a distance of approx 2.88 Km.
3. The project got approval from Bhubaneswar Municipality Corporation vide letter no. 0749/CSC, dated 22.02.2017 for Construction of "B+G+6 Multi storied residential apartment, plot no. 4364, 4365/9551 & 4366, Khata No. 1988/9 Mz. Ghatikia, P.S. Chandaka, Bhubaneswar.
4. The Building Details Of The Project:

Particular	Proposed
Project Name	Proposed Construction of B+G+6 Multistoried Residential Building
Plot Area	7284.34 m ² (1.8 Acres)
Ground Coverage	2643.85 m ² (36.29 %)
FAR (Floor Area Ratio)	2.23

Built up Area	24273.99 m ²
Maximum Height	20.95 m
Basement Parking Area	5478.89 m ²
Total Parking Area	5478.89 m ²
Green Belt Area	1717.19 m ² (23.57 %)
Maximum No. of Floor	B+G+6
Power/Electricity Requirement & Sources	Total - 958 KW Solar - 10.04 KW CESU - 947.96 KW
No. of DG sets	1x380 KVA
Water requirement & Sources	62.0 KLD (Fresh)
Sewage Treatment & Disposal	STP Capacity 100 KLD
Estimated Population- Residential, Commercial, Floating/visitors	Residential Apartment - 108 EWS Apartment - 42 Estimate Population - 666

5. REQUIREMENT FOR THE PROJECT:

(i) Power requirement:

The daily power requirement for the proposed complex is preliminarily assessed as **958 KW** (Solar System- 10.04 KW & CESU – 947.96 KW). In order to meet emergency power requirements during the grid failure, there is provision of 1 no. of DG set having 380 KVA capacities for power back up in the Residential Building Project. For energy conservation, there will be 75 nos. of Solar Lighting poles (@72 Watt) has been proposed for Street & common area solar lighting,

So, Energy conservation by using Solar Street Lighting = $75 \times 72 = 5400 \text{ watt} = 5.4 \text{ KW}$

Energy conservation by using Solar lighting for common area = 4.64 KW

Total Energy Conservation = $(4.64+5.4) \text{ KW} = 10.04 \text{ KW}$

Total Energy saving = $10.04/958 = 0.0104 \times 100 = 1.04 \%$

(ii) Water requirement:

Fresh make up of 62.0 m³/day will be required for the project which will be sourced from Ground water. Waste water of 79.0 KLD will be treated in a STP of 1080 KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the Municipal Drain.

Rain Water will be harvested through 10 no. of recharging pits.

(iii) Firefighting Installations:

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

(iv) Green Belt Development:

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

(v) Solid Waste Management:

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

practices will be adopted during the collection, storage and disposal of the generated solid waste and construction and demolition waste.

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

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

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

6. **Estimated Project cost:**

Total Capital Cost = ` 15.73 Crores

Environment Management Cost = ` 1.48 Lakhs

7. The Environmental Clearance for the proposal was rejected earlier and communicated to the proponent as no feasible waste water discharge system do exist at the proposed site.
8. Now the project proponent has submitted fresh EC proposal with revised plan for discharge of waste water at the proposed site.
9. The consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., N-5/305, IRC Village, Bhubaneswar** along with the proponent have made a detailed presentation on the proposal.
10. The SEAC in its meeting held on 27.11.2019 decided to take decision on the proposal after the proponent submits the following information/ documents followed by visit of Sub-Committee of SEAC to the proposed site.
 - (a) Proposal to increase the percentage of Solar/ renewable energy to 5% with detailed plan.
 - (b) Undertaking by the Sewerage Board to complete 250 mm dia sewer line within span of 3 years which is proposed to be laid along with Paikarapur-Naka Gate Square Road and they will connect the said sewer line to the drain of the proposed project.
 - (c) Discharge of treated water to municipality drain should be reduced by increasing usage of the treated water in green belt plantation and car washing. Detailed proposal to this effect to be submitted.
 - (d) Provision for electric point at each and every parking location for e- vehicle charging etc. shall be provided. An undertaking to this effect to be submitted.
 - (e) Detailed water balance.

11. The decision of the SEAC meeting held on 27.11.2019 was communicated to the proponent vide SEAC letter no. 414(2)/SEAC-(Misc)-28, dated 10.12.2019 to comply.
12. The Sub-Committee of SEAC conducted site visit on 21.12.2019. The site visit report of the Sub-Committee of SEAC is enclosed as **Annexure-C (I)**.
13. The SEAC in its meeting held on 04.03.2020 decided to take decision on the proposal after receipt of the information / documents / clarification on the observation made by the sub-Committee of SEAC during the site visit on 21.12.2019 in addition to information / documents / compliances sought by SEAC vide letter no. 414 (2), dated 10.12.2019.
14. The decision of the SEAC meeting held on 04.03.2020 was communicated to the project proponent vide letter no. 151/SEAC-(Misc.)-28, dated 07.03.2020 to comply.
15. The project proponent has furnished compliances as requested by the SEAC vide letter no. 414 (2), dated 10.12.2019 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
i)	Proposal to increase the percentage of Solar/ renewable energy to 5% with detailed plan.	We have recalculated and allocated 48 KW (5%) of total load capacity in solar power for external lighting, basement floor stilt floor parking area, Stair case lobby and terrace lighting. (Annexure 1)
(ii)	Undertaking by the Sewerage Board to complete 250 mm dia sewer line within span of 3 years which is proposed to be laid along with Paikarapur-Naka Gate Square road and they will connect the said sewer line to the drain of the proposed project.	We have approached Sewerage Board for Undertaking but, they denied the same. Hence we have arranged alternate way for storage of treated water in our premises as a contingency plan. We have allocated 100m ³ of space near proposed STP as demarcated in the map for contingency storage of waste treated water till sewer connection and operation. The size of the tank is 10(L) x 2.5 (w) x 4 (depth) mtr. In case of requirement of cleaning of waste water from the tank we will use private septic tanker for removal and disposal the same through septic treatment center and dispose as per BMC guideline.
(iii)	Discharge of treated water to municipality drain should be reduced by increasing usage of the treated water in green belt plantation and car washing. Detailed proposal to this effect to be submitted.	In addition to above arrangement we have two other options available for disposal of treated waste water whenever in need. <u>Option 1</u> Our next door project SAMASTI 1001 have entered into agreement with us to carry our waste water in to the open drain jointly developed by us in front of our project along with the access road from the main road through the channel recently developed in their adjacent plot. This open drain and road is getting extended through the adjacent plot to link with the BMC drain no.9. <u>Option 2</u> During the site visit the Honorable member of SEAC sub Committee have observed that 300 mm dia sewerage line has been recently constructed along the drain No.9, thus the waste water from our project passing through the upcoming adjacent project road side drain shall be ultimately connected to the sewerage

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		line. Hence, we assure the authority to have full fledged waste water disposal system in place much before the occupancy. (Annexure 2,3,4,6A,6B,6C& 6D)
(iv)	Provision for electric point at each and every parking location for e- vehicle charging etc. shall be provided. An undertaking to this effect to be submitted.	We have a declaration in this regard to provide sufficient no of e-vehicle charging point in various points of parking area to facilitate e-vehicle owner ease of use of it. .(Annexure 5)
(v)	Detailed water balance.	Revised water balance given in Annexure 2&3.

16. The proponent has furnished information / documents / clarification on the observation made by the sub-Committee of SEAC during the site visit on 21.12.2019 as communicated to the proponent vide letter no. 151/SEAC-(Misc.)-28, dated 07.03.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
(i)	During the site visit, the project proponent showed the location of the proposed another 250 mm dia sewer line, about 320 meter distance (as stated by OWSSB) from the proposed apartment premises to which they intend to discharge 51 KLD treated waste water from STP (as per water balance) In this context, the proponent is required to submit the consent by the Sewerage Board on the following:		-
	I. They will complete the proposed above 250 mm die sewer line within a Maximum period of 3 years to synchronize the completion of the apartment project and will also allow and take sewage load of the proposed apartment	We have approached Sewerage Board for Undertaking but, they denied the same. Hence arranged alternative way for storage of treated waste water in our premises as a contingency plan. We have allocated 100 m3 of space near proposed STP as demarcated in the map and given earlier in the previous compliance report which will be our contingency storage of waste treated water till sewer connection and operation finalization. The size of the tank is 10 m x 2.5 m x 4 m depth. In case of requirement of cleaning of waste water from the tank we will use private tanker service and the same will be through septic treatment center provided by BMC and as per guideline of BMC.	Specific condition to be stipulated in EC.
	II. If the Sewage Board give consent as stated above at (i), then the project proponent is required to submit the relevant land document/ land title / lease/ "Right to use" document as necessary in their favour for the land required to lay the pipe line / construct drainage connecting the discharge point of treated waste water of STP of the apartment and the proposed 250 mm dia Sewer line at a distance of about 320 meter for the proposed apartment premises	In addition to above arrangement we have two other options available for disposal of treated waste water	
	III. Drainage drawing/contours/ design for the above purpose.	Option 1	
	IV. Due to higher gradient of the proposed sewer line, detail pumping arrangement with	Our next door project SAMASTI 1001 have entered in to agreement with us to carry our waste water in to the	

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	explanation is also required.	<p>open drain jointly developed by us in front of our project along with the access road from the main road. Though the channel recently developed in their adjacent plot. This no open drain and road is getting extended through the adjacent plot to link with BMC drain No 9.</p> <p>Option 2 During the site visit the Honorable member of SEAC observed that 300 mm dia sewerage line has been recently constructed along the drain No 9, thus the waste water from our project passing through the upcoming adjacent project road side drain shall be ultimately connected to the sewer line. Hence we assure the authority to have full-fledged wastewater disposal system in place much before the occupancy.</p>	
ii)	<p>The project proponent showed a storm water drain (as that a defined contour) falling in no 9 drain and they want to discharge their treated waste water to it. This distance may be around 2 km. (an estimate) In this situation, the project proponent is required to submit:</p> <p>I. Drainage Plan / design and drawing for the same connecting their apartment premises till no 9 drain of BMC In future the proponent may explore connecting it to the sewage line (under construction) after taking due permission from the authority.</p> <p>II. Ownership of the land for the purpose in favour of the proponent either in shape of / through purchase / lease / "Right to use. The entire land appears to be private land.</p>	<p>As explained above as the same is not possible as on now a well-organized contingency plan has been given in alternate to above for consideration.</p>	<p>Specific Condition to be stipulated in EC.</p>
ii)	<p>BMC/PHED water supply was found to be available nearby so, the project proponent is advised to take supply of domestic water as required from this source and do away with ground water through Bore Wells. However, subject to NOC from CGWA and permission from Water Resources Department Govt of Odisha for use of ground water, the proponent may be allowed to use of one bore well</p>	<p>NOC from CGWB obtained Annexure 1</p>	<p>Specific Condition to be stipulated in EC.</p>

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	(limiting to maximum 25% of the total demand) as a standby source and dispense use with their proposal of two bore wells.		
v)	The project proponent is required to submit the test report of water sample of nearby ground water source and PHED / BMC water supply to the Committee to take a decision as to the necessity of Water Treatment Plant for the project to ensure quality water supply to the inhabitants.	Report attached Annexure 2	-
v)	The number of plants in green belt shall be increased so that STP waste water will be reduced.	As per project report we have given earlier 32 KLD of waste treated water to be disposed through sewer. However considering the constraints we have changed the balance diagram and a modified water balance diagram only 10 KLD water to be disposed or kept in contingency plan till proper drainage network. Revised water requirement and water balance for information. In addition to it we will increase boundary plantation to further utilize waste water Annexure 3	-

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar** on behalf of the project proponent, the SEAC recommended for grant of Environmental Clearance valid for a period of 7 years with stipulated conditions as per **Annexure-C (II)**.

ITEM NO. 06

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S TAPAN Z-ESTATE PVT. LTD. FOR PROPOSED HIGH RISE RESIDENTIAL APARTMENTS LOCATED AT VILLAGE - AMBAPUA, TAHASIL - BERHAMPUR, DIST- GANJAM OF SRI SATYA JYOTI MOHANTY (MD) WITH TOTAL BUILT UP AREA 30594.20 SQM. – EC

1. The proposal is for Environmental Clearance of M/s Tapan Z-Estate Pvt. Ltd. for proposed High Rise Residential Apartments located at village - Ambapua, Tahasil - Berhampur, Dist- Ganjam of Sri Satya Jyoti Mohanty (MD) with total built up area 30594.20 sqm.
2. The category of the project is 8(a) as per EIA Notification, 2006 & its amendments.
3. The Proposal site is located at Ambapua, Berhampur, District- Ganjam, Odisha over Plot No.: 721/2110, 721/6371, 721, 726,729/5405, 728, 721/7249,& 722 Khata No. 422/6805, 442/5025, 442/6813,442/3863, 442/5264 and 442/3901 at- Ambapua, Berhampur, District- Ganjam, Odisha- 760010 of M/s Tapan Z Estates Pvt. Ltd.
4. Location and Connectivity - The geographical co-ordinate of the project site is: Latitude -19° 19' 6.93" N & Longitude - 84° 51' 13.46" E. The project site is well connected with State

Proceedings of the SEAC meeting held on 13.09.2021

Environmental Scientist, SEAC

Highway – 5(Pathara via NH-5 bypass road). The nearest railway station is Berhampur Railway station at a distance of approx 11.5 Km in South West direction. The nearest airport is Biju Pattnaik International Airport, Bhubaneswar at a distance of approx. 164 Km in North-east direction from project site. The site is located adjacent to the local landmarks SHRI Maa Dakshinakali Temple, BDA Park, Kendriya Vidyalaya Brahmapur, Income tax office Brahmapur, Ganjam Law College etc.

5. Meteorology - The maximum temperature is about 33.0o C and the minimum temperature is 22.0o C felt in the area. The average annual rainfall in the area is 1314.71 mm.

6. The Building Details Of The Project:

Total Plot Area	:	8,700.71 sqm
Kisam of Land	:	Gharabari
Residential FAR Area	:	21,415.25 sqm
Commercial FAR Area	:	1,221.47 sqm
Total Built-up Area	:	30,594.20 sqm
Ground Coverage	:	2,960.00 sqm
Road & Paved Area	:	2,436.00 sqm
Green Belt Area	:	1,793.52 sqm
Total Parking Area	:	7,613.90 sqm
Height of the Building	:	50.00 m

7. **Water requirement** - Fresh make up of **85.0 m³/day** will be required for the project which will be sourced from Ground water. Waste water of 108.0 KLD will be treated in a STP of 120 KLD capacity, which includes primary, secondary and tertiary treatment. After treatment the treated water will be discharge to the near drain.

8. **Power requirement** - The daily power requirement for the proposed building is preliminarily assessed as 1041.0 KW. In order to meet emergency power requirements during the grid failure, there is provision of 2 nos. of DG set having 500 KVA capacities for power back up in the proposed Building Project.

Energy conservation by using Solar lighting for common area = 46.0 KW

9. **Rain Water Harvesting** - Rain Water will be harvested through 19 nos. of recharging pits.

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

11. **Green Belt Development** - Green belt will be developed over an area of 1740.14 sqm which is 20.0 % of the plot area; by using the local species like Neem, Karang, Golden Champa, Bakul, Bela, Bottle Palm, Cheekoo, Guava etc.

12. **Solid Waste Management** - Total Solid Waste Generation- 478.5 kg/day

Residential - From the residential complex solid waste generated will be @ 0.45 kg/person/day, which will be about 360.0 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste.

Commercial - Waste generated from Commercial people will be @ 0.15 kg/capita/day, which will be about 52.5 kg/day. The waste generated from floating population in residents will be @ 0.15 kg/day, which will be 12 kg/day. Solid waste from sweeping and Dry Garbage

containing non-bio-degradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved recyclers. Around 54.0 kg/day of STP sludge will be generated.

Solid Waste from Residential Population - 360.0 kg/day

Solid Waste from Commercial Population - 52.5 kg/day

Solid Waste from Floating Population - 12.0 kg/day

STP Sludge - 54.0 kg/day

13. The estimated project cost is ` 55.0 Crores and Environment Management Cost is ` 2.2 Crores
14. The project proponent along with the consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar** made a detailed presentation on the proposal.
15. The SEAC in its meeting held on Dt: 16.03.2020 decided to take decision on the proposal after the proponent submits the certain information/ documents followed by site visit of sub-committee of SEAC.
16. The project proponent has furnished compliances as desired by the committee on dated 21.04.2021 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
i)	Land documents with kisam of land.	All the Kisam of land of this project is Gharabari. 8 nos. of ROR is attached as Annexure-1 .	complied
ii)	Copy of approval letter along with building plan of development authority.	BMC has provisionally approved the building plan on 12-10-2020 and the letter is attached in Annexure-2 .	BMC has provisionally approved the building plan on 12-10-2020 and the letter is attached in Annexure-2 is not attached.
ii)	Provision shall be kept for PH Division water supply, Berhampur in future regarding supply of water to that proposed project and abandon ground water usage.	Provision of Under Ground water tank of adequate capacity has been provided in the Building Plan which will receive the P.H water whenever it is supplied to the project	Agreed and complied
x)	Status of permission for use of ground water.	Ground water NOC is obtained from CGWA vide letter no. CGWA/NOC/INF/ORIG/2021/11482, dated 26.03.2021. NOC copy is attached in Annexure-3 .	complied
x)	NOC from drainage department for discharge of treated water to readymade municipality drain and thereby to Rushikulya river provided near proposed location.	BeMC is the approving Authority as well as the provider of all external infrastructures including drain. Further BeMC also take 1% of the Project cost towards maintenance of this Infrastructure in future. The notification HUD Govt. of Odisha vide no. 8346, dated 21.04.2020 has provision for the same. Accordingly, our non-sewer surplus waste water will be discharged to the drain provided by BeMC for this project. The copy of	NOC from drainage department for discharge of treated water to readymade municipality drain is not submitted.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		Notification is attached herewith as Annexure-4 .	
i)	Detailed calculation for generation of waste water and its management during monsoon and non-monsoon.	Total waste water generated from the proposed project is 108.0 KLD and the waste water will be treated in STP of capacity 120 KLD. Detailed calculation for waste water generation during Monsoon & Non-monsoon is attached in Annexure-5 .	complied
ii)	Detailed calculation of treated water how to be used and where it will be discharged with drainage map / drainage design.	The 102.4 KLD treated water will be recycled within the project for flushing (42.4m ³ /day), landscaping (6.2m ³ /day), STP loss (5.4 m ³ /day) & Dust suppression (9 m ³ /day) and 45 m ³ /day treated water will be discharged to drain. The detailed calculation is already attached in Annexure-5 and the Drainage map is attached in Annexure-5A .	complied
ii)	Dimensions of underground sumps use for Municipality water storage and rain water harvesting storage with layout.	The Roof Top Rain Water will be discharged through Rain Water Harvesting Pits. The Roof Top area is 2960 sqm and the total rain water available through this area will be 303.69 cum/day during monsoon period. So, we are proposing 19 nos. of Rain Water Harvesting pit of capacity 4.71 cum. Detail calculation for Rain Water harvesting is given in Annexure-6A and Rain Water Harvesting Layout is Annexure-6B .	complied
v)	Breakup percentage of green belt and landscape with detailed plan and layout. Proposal for plantation shall be carried out in 3 tier.	We propose to develop three tiers hierarchical greenbelt along the periphery of the building and the width of the Green Belt is Max. 3m and min. 1.5m. Total green belt area is 1740.14 sqm which is 20% of total plot area. Green Belt Plan is given in Annexure-7 and Site Plan showing greenbelt is given Annexure-8 .	Breakup percentage of green belt and landscape is not submitted.
v)	Details of rainwater harvesting proposed in the project and amount compensated towards water requirement/recharging as well.	The Roof Top Rain Water will be discharged through Rain Water Harvesting Pits. The Roof Top area is 2960 sqm and the total rain water available through this area will be 303.69 cum/ day during monsoon period. So, we are proposing 19 nos. of Rain Water Harvesting pit of capacity 4.71cum. Rain water available from proposed project site is 13920 m ³ and Water requirement for proposed project is 31025m ³ /year, so rain water	complied

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		harvesting percentage is 44.8%. Details calculation for Rain Water harvesting is given in Annexure – 6A and Rain Water Harvesting Layout is attached in Annexure-6B .	
i)	DG set stack height details including location and its effect w.r.t. sound and emission and wind direction in that area.	The height of the DG stack is 15m. The Site plan showing Location of the DG stack is attached in Annexure-8 . Predominate wind direction of our site is from south west to south east. The DG set has accordingly been located for dispersion of vent gases away from the building.	complied
ii)	Breakup percentage of power requirement by CESU and Renewable Solar Energy (5%) with detailed plan and calculation.	The electricity installed capacity for this project is 1041 KW, accordingly to adhere to the 5% (i.e.52.05KW) norms of solar energy we have planned to install Photovoltaic cell Frame shape to be located on the terrace area. The solar power will be mainly used for open area lighting, common corridor lighting & corridor lighting. Total Energy saving is 5 % which is generated from solar System. Detail Calculation is attached in Annexure-9 . Total Power Requirement is1041KW. Power Requirement from TPCODL is 988.95 KW. Power from Solar Energy is 52.05 KW.	complied
ii)	Water quality analysis report of ground water in that area.	Ground Water Quality analysis report is attached in Annexure-10 .	complied
x)	Detailed calculation for ECS for parking area and parking plan.	As per BeMC, the norm for Residential housing is 30%. Accordingly, the parking space required for residential area is 6893.99 sqm (which is equivalent to 230 ECS) and we have provided 7613.9 sqm which is equivalent to 257 ECS to cover floating population and visitor. Detail Parking area calculation in ECS is attached in	complied

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		Annexure-11.	
x)	Detailed design and specification of STP.	Detailed design and specification of STP is attached in Annexure-12.	complied
i)	Whether treatment of ground water/Surface water / MP by Raw Water Treatment Plant (WTP) proposed for correction of pH, removal of high TSS / TDS. If so, details to be furnished.	We envisaged the provision of WTP in our project for correction of PH and removal of TDS and TSS. Based on the water report of borewell the detail of WTP will be worked out before installation & operation.	complied
ii)	Whether untreated / treated waste water drain and run off / storm water drains are separately provided? If so, this should be clearly shown in detail layout / contour of the drain and submitted.	The open drain planned to be provided in the project area shall be of adequate capacity to take care of regular non- sewer waste water and the storm water during rainy season without causing inundation of the area and preventing water logging. Detail section and layout is attached in Annexure-13.	complied
ii)	Whether management of periodical monitoring of quality of treated waste water and fresh water if used from ground water source or river is in place? If so, details to be furnished.	The quality of treated waste water will be monitored periodically during operation of the system to meet the discharge quality.	complied
v)	Whether Traffic Density Study Report for a detailed traffic management and traffic decongestion duly validated by State Urban Development / PWD / Competent Authority has been furnished? If so, details to be furnished.	The main artery road of the project is originating from NH-16. Where the NH road width is around 300feet. This portion of NH is traditionally recognized as by-pass Road of Silk City, Berhampur. Hence this portion of road mainly caters to the NH traffic without much load of the city Traffic. Hence, there is no Congestion in this portion of road.	Traffic Density Study Report for a detailed traffic management and traffic decongestion not furnished
v)	Whether provision of internal road, paving and pedestrian pathways have been made as per the norm? if so, details with layout to be furnished.	Provision of internal road, paving and pedestrian pathways is showing in Site Plan and Site Plan is attached in Annexure-14.	complied

17. The SEAC in its meeting held on Dt: 28.06.2021 recommended the following:

A. Decision on grant of Environmental Clearance for the proposal shall be taken after the proponent furnish the following information / documents:

- i) Berhampur Municipal Corporation (BMC) has provisionally approved the building plan on 12-10-2020 and the letter was stated to be attached in **Annexure-2, but it** is not attached. **The same shall be provided.**
- ii) NOC from drainage department for discharge of treated water to readymade municipality drain.
- iii) Breakup percentage of green belt and landscape.
- iv) Traffic Density Study Report for a detailed traffic management and traffic

decongestion.

- v) An undertaking in form of legal affidavit indicating that the construction work has not been started.

B. Environmental Clearance can be considered after receipt of information / documents from the proponent as stated above. The Sub-Committee of SEAC will visit the site within 6 months from the date of issue of Environmental Clearance to verify the progress of the project as well as implementation of conditions stipulated in Environmental Clearance. However, either during the visit of the SEAC Sub-committee and/or at any time, if it is noticed that stipulated conditions on which EC is granted is not in place or found otherwise, steps will be taken for revocation of EC granted.

18. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Berhampur Municipal Corporation (BMC) has provisionally approved the building plan on 12-10-2020 and the letter was stated to be attached in Annexure-2, but it is not attached. The same shall be provided.	The copy of the building plan was submitted along with the application as per our record but might have been missed out while submitting. However we are resubmitting the copy of the provisional building plan approval for your record. Copy of provisional building plan is attached in Annexure-1 .
(ii)	NOC from drainage department for discharge of treated water to readymade municipality drain.	a) The drainage division works under the jurisdiction of Berhampur Municipal Corporation. b) The housing and urban development department Government of Odisha Bhubaneswar vide its notification No: 8346/HUD, dated 21.04.2020 has the developer to deposit 1% of project cost as external infrastructure development plan (EIDP) fee towards development and maintenance of external infrastructure like waste water drain, etc. (Copy of notification is attached in Annexure-2). c) However to obtain supporting document we approached Executive Engineer Drainage Division, Berhampur vide our letter dated 01- 07-2021 on the issue of Drainage provision. (Copy of letter is attached in Annexure-3). d) On their advice we approached Commissioner Berhampur Municipal Corporation (BeMC) for issue of NoC for providing drainage for our project vide our letter dated 05-07-2021 (Copy of letter is attached in Annexure-4). e) After processing our application the BeMC vide their letter No- 8825(II)/BPA _130/2020 dated 27- 07-2021 (Letter attached in Annexure-5) have convey that RCC open drain exists adjacent to our building site for suitable disposal of

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		rain/storm water and treated waste water (Photograph of drain is attached in Annexure-6). They have assessed to jointly prepare the cost estimate for deposited of 1% of project cost for augmentation of drainage system in future.
iii)	Breakup percentage of green belt and landscape.	As per the proposal submitted to you the green belt will be over an area of 20.12 % and the landscape area will limited to 2% of the plot area.
iv)	Traffic Density Study Report for a detailed traffic management and traffic decongestion.	The traffic density study was assigned to School of Civil Engineering, KIIT University Bhubaneswar. On the basis of primary data collected at site during 6 th to 13 th July, 2021. The report covers the traffic management and decongestion plan. (Traffic study report is attached in Annexure-7).
v)	An undertaking in form of legal affidavit indicating that the construction work has not been started.	An undertaking by MD Tapan Z Estate Bhubaneswar dated 30-07-2021 is submitted to indicating that we have not started any construction work at proposed site. (An affidavit is attached in Annexure-8).

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd. Bhubaneswar** on behalf of the project proponent, the SEAC recommended for grant of Environmental Clearance valid for a period of 7 years with stipulated conditions as per **Annexure-D**.

However, the Sub-Committee of SEAC will visit the site within 6 months from the date of issue of Environmental Clearance to verify the progress of the project as well as conditions stipulated in Environmental Clearance. However, either during the visit of the SEAC Sub-committee and/or at any time, if it is noticed that stipulated conditions on which EC is granted is not in place or found otherwise, steps will be taken for revocation of EC granted.

ITEM NO. 07

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PRODUCTION OF 90043 TPA OF IRON ORE FROM NANGALSILA IRON ORE MINES OVER AN AREA OF 45.333 HA LOCATED IN VILLAGE NANGALSILA & MURUMDIHI, UNDER RAIRANGPUR TAHASIL DIST- MAYURBHANJ OF GOURI SHANKAR CHOUBEY (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. The Nangalsila Iron Ore mining lease of Sri Gouri Shankar Choubey over an area of 45.333 ha located in Village- Nangalsila & Murumdihi under Rairangpur Tehsil, in the district of Mayurbhanj of Odisha State.
3. The Nangalsila & Murumdihi Iron Ore mining lease over 45.931 ha was first granted on 19.04.1985 in favor of Sri Gouri Shankar Choubey and executed on 19.04.1985 for the period of 20 years.

4. 1st Renewal of Mining Lease Application for the same area been filed to the Steel & Mines Department in accordance with the provision of over 45.931 has Rule, 24A(1) of MCR, 1960 for a further period of 20 years. As per section 8A(3) of Mines and Minerals (Development and Regulation) Amendment Act , 2015 the lease period supposed to extended upto 18.04.2035 subjected to execution of Supplementary lease deed.
5. Part of the non working lease area over 0.598 Ha inclusive of 0.174 Ha of village forest land and 0.424 Ha of non forest land was proposed to be surrendered to State Govt. on 03.03.2011 to keep the project technically and commercially viable. So, Final Mine Closure Plan for the part surrendered lease area over 0.598 ha. has been approved by IBM on 28.10.2011 vide IBM's letter No. FMCP/MAN/04-ORI/BHU/2011-12.
6. Surface right has been acquired over an area of 32.780 hectares (80.75 Ac., 6.95 Ac.Govt. & 73.80 AC. Pvt Land) from the Collector, Dist: Mayurbhanj, Odisha.
7. The mining operation was stopped by the Mining Officer, Baripada since 19.11.2009 due to want of environmental clearance and other statutory clearance.
8. Since, the mining operation was closed more than two years, the lease was declared as lapse by Govt. of Odisha, vide letter No. 5711/S & M dated 25.06.2015.
9. Lessee has filed the revision application which was consider by the Revisional Authority and the Lapse Order was set aside by order dated 11.05.2016 and remanded back to the State Govt. for suitable reconsideration.
10. Now the hearing is going on for consideration of application.
11. Accordingly Mining Officer, Baripada demanded an amount of Rs.2, 91, 58, 813 /- towards extraction in violation of EP Act and ` 54, 82, 233.45/- towards failure to deliver the undeposited stock.
12. However, after depositing ` 4,57,71,500/- including applicable interest the demand for common cause/compensation, State Govt. has communicated the status of lease to IBM vide letter no. 6746/DM dated 29.08.2019.
13. On receipt of the status report IBM has approved the modification of mining plan for period 2015-16 to 2019-20 vide letter No. MRMP/A/32-ORI/Bhu/2019-20/1781 dated 03.12.2019.
14. Mining Officer, Baripada demanded an amount of Rs.2, 91, 58, 813 /- towards extraction in violation of EP Act and ` 54, 82, 233.45/- towards failure to deliver the undeposited stock. Further for MP/CTO violation demand notice was raised for an amount of Rs. 4,65,279/-
15. Payment confirmation for Rs. 4,57,71,500/- has given by Director of Mines, Odisha Vide its letter No. MX-III (d) -77/2016 5629/DM dt. 23.07.2019.
16. Last Scheme of Mining of this Nangalsila Iron Ore Mine was approved by the Indian Bureau of Mines, Bhubaneswar vide letter No. SM/OTFM/27-ORI/BHU /2011-12 dated 28.10.2011 for a period of 5 years from 2010-11 to 2014-15. Final Mine Closure Plan of the part surrendered area over 0.598 hectare prepared under Rule 23C of MCDR, 1988 was approved by the Indian Bureau of Mines, Bhubaneswar vide letter No. FMCP/MAN/04-ORI/BHU/2011-12 dated 28.10.2011 and reclamation and rehabilitation work completion certificate of FMCP approved area (0.598 ha) was obtained from IBM vide his Certificate No.T/FMCP/C/I/BHU-2011 dated 08.02.2012. Since the extent of M.L area has been reduced from 45.931 hectares to 45.333 hectares after surrender of 0.598 hectare, this Modification of Mining Plan has been prepared under Rule 17(3) of MCR, 2016

along with Progressive Mine Closure Plan under Rule 23 of MCDR, 2017 in respect of the M.L area applied for retaining over 45.333 hectares for a period of five (5) years from FY 2015-16 to 2019-20 and submitted for approval.

17. A total of 2.104 Million Tonne iron ore reserve has been estimated in the M.L area applied for retaining which has formed the basis for preparation of this Modification of Mining Plan. The mine will be operated as a Category-A (OTFM) Mine to produce iron ore 90, 043 T / annum.
18. The lease area covers a part of Survey of India Toposheet bearing No.73J/4 and bounded by the latitudes from 22009'16.568" to 22009'40.185"N and longitudes from 86012'53.685" to 86013'28.742"E. Nearest State Highway is SH –Bisoi-Rairangpur : 11.00 km (NE). Nearest National Highway is NH 49 9 .5Kms & Rairangpur-Dhenkikot NH 220 is 14 km. Nearest Railway Station is Kuldiha Railway station at 5 km. Nearest river is Khadkhai River at 0.5 Kms and Khadkhai Reservoir is 2 km. National Park/Wild Life Sanctuary/Eco Sensitive areas is Similipal Biosphere Reserve 14 Kms.
19. Nangalsila Iron Mine is situated at the foot hill region of Sulaipat hill. M.L area displays a flat topography. Highest and lowest altitudes are noted at 300.5m and 291.5m above mean sea level. The maximum altitude difference is (300.5 – 291.5=) 9m. M.L area consists of mainly waste land as well as agricultural field and bisected by Khadakai Canal. Drainage system is dendrite type. There is neither seasonal nor perennial nala in the M.L area. The drainage system of the area is mostly influenced by Khadakai canal which passes through the lease area SE to NW and controls the drainage system in the region. The land use of the lease area is 45.931 Ha i.e Nangalsila (Govt. land – 13.585 Ha.and Private land – 27.511 Ha) & Murumdihi (Govt. land – 1.460 Ha.and Private land – 3.375 Ha).
20. The maximum production will be 90043 Tons/annum. The total geological reserve is about 98808 t, out of which 95868 t have been considered as mineable reserves. Open cast semi-mechanized mining method will be adopted with the deployment of machines like Jack hammer drill, Compressor, Hydraulic excavators & Tippers etc. Only one bench of 2-3m height will be developed and the bench slope will be kept nearly vertical (80°) with horizontal.
21. ROM ore will be up-graded in the ML area in respect of size and grade by way of dry crushing and screening for value addition. About 30 % of runoff ore will be marketed to the consumer after manual breaking, sorting sizing and blending. Remaining 70 % of the production will be screened by the existing 60 TPH capacity Screening Plant. The average grade of ore produced from this mine is not less than 45 % of Fe.
22. Two existing quarries namely Quarry-1 and Quarry-5 will be developed simultaneously laterally to produce iron ore @0.90 Mt / annum. During life of the mine 75,572 Cum. of waste to be generated and stored in 1.182 ha. of area earmarked for waste dumping. At the end of the mining dump material will be re-handled for back filling mined out area and no area remains as dump. Top soil to be generated shall be stacked separately and use for reclaimed area rehabilitation purpose.
23. Water table will not be intercepted, as ultimate depth of Mining will 3 m. whereas water table in the area is minimum 15 m below the surface. As such there is no possibility for encountering any underground water source. Any rain water, accumulated in the pit during monsoon, will be naturally drained within 2 or 3 days.

24. 15 KLD will be required, out of which 3 KLD for drinking purpose, 2 KLD for plantation and 10 KLD for dust suppression purpose. It is proposed to tap this quantity of water as per suitability.
25. The total manpower in this project is 111 persons.
26. The total project cost is ` 1.65 Crores and Environment Management Cost is ` 0.30 Crores.
27. The consultant **M/s Srushti Seva Pvt.Ltd., Nagpur** along with the proponent has made a detailed presentation before the SEAC on 14-02-2020. The SEAC decided to take decision on the proposal of the proponent after the proponent submits certain information / documents.
28. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Details of violation under Environment Clearance to be submitted	<ul style="list-style-type: none"> • Mining Lease of Nangalsila Iron Ore Mines over 45.931 Ha was granted to lessee Sri Gouri Shankar Choubey by the Collector, Mayurbhanj on 19.04.1985 for 20 years and registered on 18.07.1985 with the Sub-Register, Baripada. • Surface right permission has been granted by the Collector & District Magistrate, Mayurbhanj over an area of 32.780 Ha on 17.08.1985. • The lease was under operation with a very small scale of production capacity by adopting manually method of mining by engaging local workers from the period 1985-86 to 2008-2009. • In the Meanwhile, the Mining Officer, Baripada vide letter No.4837/Mines dated 19.11.2009 has directed us to suspend all mining operation/activities until getting all statutory clearances including environmental clearance. • On 08.12.2009 the mine was jointly verified by the Mining, Forest and Revenue Departments of Govt, of Odisha but no violation was noticed under EP Act or any other relevant Act. Copy enclosed as Annexure 1. • In compliance to the direction of the Mining Officer, Baripada on 23.06.2010, EC was applied in MoEF. Copy enclosed as Annexure 2. • In the said report the CEC under Para 34 has been calculated the national value of the total quantities of iron and manganese produced without EC/beyond EC by all the 	-----

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC												
		<p>lessees in the State of Odisha during the period 2000-01 to 2010-11 including this Nangalsila Iron Ore Mines.</p> <ul style="list-style-type: none"> • Accordingly, demand notice was issued by the Mining Officer, Baripada amounting to Rs.3,46,41,047.00 towards compensation for production of minerals without / in excess for the environmental clearance under section 21(5) of the MMDR Act, 1957 in compliance to the judgment dated 02.08.2017 of Hon'ble Supreme Court in the matter of Common Cause vrs Union of India in W.P. (C) No.114/2014 and also directed to deposit the same on or before 31.12.2017. • The entire amount along with applicable interest and the said has been confirmed by the Department of Steel & Mines vide their letter No.5629/DM dated 23.07.2019.Copy enclosed as Annexure 3. • The mining operation was continued till 2008-09 before suspended by the Mining Officer, Baripada in the capacity of the amendment provisions of Rule, 24A(6) of MCR, 1960 as "deemed extension" and no violation/objection was issued from any authority. Despatched of minerals also been done during the such period after obtaining prior ore removal permission/transit permit from the concerned authority by paying advance royalty and completion of physical verification by the Senior Inspector of the Mines, Baripada Circle. 													
(ii)	Year of commencement of mining operation along with year wise past production details	<p>The lease was under operation with a very small scale of production capacity by adopting manually method of mining by engaging local tribal workers from the period 1985-86 to 2008-2009 in accordance with the terms and conditions laid down in the lease deed duly signed on 19.04.1985 and as per Mining Plan/Scheme of Mining duly approved by the Indian Bureau of Mines time to time. Production made during the years 1985-86 to 2008-09 as tabulated below.</p> <table border="1" data-bbox="600 1809 1091 1951"> <thead> <tr> <th>Sl. No.</th> <th>Year</th> <th>Production in MT.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1985</td> <td>1162</td> </tr> <tr> <td>2</td> <td>1986</td> <td>873</td> </tr> <tr> <td>3</td> <td>1987</td> <td>1266</td> </tr> </tbody> </table>	Sl. No.	Year	Production in MT.	1	1985	1162	2	1986	873	3	1987	1266	-----
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(iii)	Aerial distance of Kuldiha Sanctuary from mining lease area certified by concerned DFO	The project Nangalsila Iron Ore Mines is located at a distance of about 81 km from the Kuldiha Sanctuary. The location map duly certified by the concerned DFO cum Wildlife Warden is enclosed as Annexure -5 .	-----																																																															
(iv)	Justification as to why the proposal will not be considered as a violation case	The project proponent already deposited the entire amount along with applicable interest towards compensation for production of minerals without / in excess for the environmental clearance under section 21(5) of the MMDR Act, 1957 and complied with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. Mining operation in the state will get legalized and it will fetch income to the state exchequer by way of royalty, Contribution to DMF, GST, Income tax, etc. Project proponent did not undertake any production/operation since 2009 after suspension of the mining activity. Further, the State Government of Odisha, through Collector & District Magistrate, Mayurbhanj has taken action under the provisions of section 19 of the Environment (Protection) Act, 1986 and registered a case against me before the Hon'ble SDJM Court, Rairangpur. Since there is no more violation pending with the lease/lessee.	-----																																																															

29. The SEAC observed that this is a violation case and operated the mines without EC after 1994-95 till 2008-09. They have also not applied for EC in the violation portal during the stipulated time. Moreover, the proponent has requested not to consider the proposal as a violation case as they have already paid the compensation raised by the State Govt. and also a case has already been registered against them by the SDJM Court, Rairangpur under the provisions of Section-19 of the E(P) Act, 1986.
30. The SEAC is not aware about non-considering the case as a violation case as per above request of the proponent as MoEF&CC, Govt. of India has not issued any guidelines for the same.
31. The SEAC in its meeting held on Dt: 12.10.2020 recommended the following:
 - a) The proponent shall be requested to give example of similar type of proposal if consider by MoEF&CC, Govt. of India.
 - b) The SEIAA, Odisha to be requested to write a letter to MoEF&CC, Govt. of India to clarify about the claim of the proponent not to consider the case as violation case as above.
32. The project proponent has requested to reconsider the proposal for Terms of Reference as per OM dated 07.07.2021 "Standard Operating Procedure (SoP) for Identification handling of violation cases under EIA Notification 2006 in compliance to order of Hon'ble National Green Tribunal in O.A. No.34/2020 WZ.
33. Madurai Bench of Madras High Court has passed order on dated 15.07.2021 for interim stay of SoPs issued by MoEF&CC, Govt. of India vide OM dated 07.07.2021 to deal with violation cases.

After detailed discussion, the SEAC recommended the following:

- a) Environmental Clearance may be rejected for the proposal and return the proposal to SEIAA, Odisha for the following reasons:
 - i) The proponent has not applied for Environmental Clearance in violation portal as well as within the stipulated time notified by the MoEF&CC, Govt. of India.
 - ii) The proponent has not given any example of similar type of proposal of violation case if considered by MoEF&CC, Govt. of India.
- b) The SEIAA, Odisha may consider to write a letter to MoEF&CC, Govt. of India to clarify about the claim of the proponent not to consider the case as violation case as pointed out in para 29 above.

ITEM NO. 08

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PROPOSED EXPANSION OF RESIDENTIAL CUM COMMERCIAL COMPLEX 'MANI TRIBHUVAN' (FORMERLY KNOWN AS "MANI TIRUMALA") AT MOUZA-KALARAHANGA, PS CHANDRASEKHARPUR, NANDAN KANAN ROAD, DIST- KHORDHA OVER TOTAL BUILTUP AREA OF 1,46,550.86M² (EXISTING: 76050.80 + PROPOSED EXPANSION: 70500.06 M²) – SUBMITTED UNDER VIOLATION CASE. (TOR)

1. Mani Tirumala Projects Pvt. Ltd., the project proponent is intending to take up expansion of the residential complex "MANI TRIBHUVAN" (Previously known as "MANI TIRUMALA") at Plot Nos.13, 15, 21 To 31, 33, 36, 37, 38, 28/2573, 40 To 49, 58, 59 & 125 (Part) Mouza: Kalarahanga, P.S: Chandrasekharpur, Nandan Kannan Road, District

Proceedings of the SEAC meeting held on 13.09.2021

Environmental Scientist, SEAC

Khurda, Odisha. The Geographical coordinate of the project site is: Latitude - 20° 22' 9.08" N & Longitude - 85° 50' 3.35" E.

2. The project proponent under existing part of the project had constructed 11 Blocks of Building of G+14 configuration comprising of 625 dwelling units on 9.83 acres (as sanctioned).
3. Environmental Clearance for the existing project was already granted by the SEIAA, Odisha on dated 02.04.2011. The proponent has also obtained Consent to Establish from the State Pollution Control Board, Odisha vide OM no. 6449/ IND-II/NOC-5402, dated 16.04.2011.
4. The project proponent now intends to take-up an expansion programme as follows, under which Tower-12 (A & B) of configuration B+G+27 will be constructed. In addition, 11 blocks of Duplex of configuration G+6 & G+7 will be constructed. 154 residential units will be accommodated in the proposed Tower - 12 and there will be 71 units in the Duplex blocks.

Existing project	Expansion project
<ul style="list-style-type: none"> • 11 Blocks, B+G+14 • 603 units 	<ul style="list-style-type: none"> • 22 units in 11 Towers of Phase-1. • Tower 12 (twin tower with common podium) having 154 units of a total height of 91 mtrs. • 3 nos. single storied utility shops have been proposed at the ground floor of Tower 12 to cater to the population of the development. • Duplex low rise bungalows: <ul style="list-style-type: none"> • 5 nos. G+7 duplex bungalow. Each bungalow is of 23.95 mtr. Height having 7 units each. Hence 5 bungalow buildings are having 35 units in total • 6 nos. G+6 duplex bungalow. Each bungalow is of 20.95 mtr height having 6 units each. Hence 6 bungalows buildings are having 36 units in total.
Built-up Area - 76050.80 m²	<ul style="list-style-type: none"> • Built-up Area - 70500.06 m²

5. The proposed expansion activity is covered under category B of item 8 (a) of Schedule to the EIA Notification, 2006, and requires prior EC from the SEIAA in Odisha based on the appraisal by SEAC.

6. Proposed Land Use:

Sl. No.		phase -1 (block 1-11)	Phase - 1 (block 12 and single storied shops)	Phase - 2 (duplex)	Total: extension	Total: overall	Overall percentage of the entire project
1	2	3	4	5	4 + 5 = 6	3 + 6 = 7	8
		Area (sqm)	Area (sqm)	Area (sqm)	Area (sqm)	Area (sqm)	%
1	Gross Land Area					52325.42	
2	Ground Coverage	17745.4	3279.21	3110.9	6390.11	24135.51	46.12
3	Total Green Area					18448.895	35.26

Sl. No.		phase -1 (block 1-11)	Phase - 1 (block 12 and single storied shops)	Phase - 2 (duplex)	Total: extension	Total: overall	Overall percentage of the entire project
	Tree Plantation Area	8007.40	714.41	2106.07	2820.48	10827.88	20.7
	Other Green Area	861.15		1131.67	1131.67	1992.82	
	50% of Semipaved area & parking areas	1671.63	1113.54	2843.025	3956.565	5628.195	
4	Total Paved Area					9741.015	18.61
	Road area at stilt level	3665.50	-	-	-	3,665.50	
	50% of Semi Paved Area/open parking	1671.63	1113.54	2843.025	3956.565	5628.195	
	Other hard paved areas					447.32	
5	TOTAL (Ground covered + total green area+ Hard paving area)					52,325.42	100%

7. Water Supply, Wastewater Generation, Recycling and Discharge:

Total water demand for the proposed expansion part of the Residential Complex project during operation stage will be around 219.03 KLD. Daily fresh water requirement to the tune of 123.56 KLD will be sourced from BDA Water Supply System and groundwater abstraction shall be done. Relevant permission from the respective authorities has already been obtained. In addition, treated wastewater to the tune of 95.47 KLD will be utilized in non-critical purposes like toilet flushing, landscaping, car washing, etc.

8. WASTE WATER:

A. WASTE WATER GENERATION FOR TOWER 12

Sl. No.	Category	Water requirement (kld)		Waste water to the STP (kld)
		Fresh Water (kld)	Treated Wastewater (kld)	
1.	Residential Population	69.65	34.30	83.16
2.	Floating Population	0.38	0.77	0.92
3.	O & M Population	2.32	1.14	2.77
4.	Club	7.56	1.89	7.56
5.	Irrigation		4.51	-

Sl. No.	Category	Water requirement (kld)		Waste water to the STP (kld)
		Fresh Water (kld)	Treated Wastewater (kld)	
6.	Car Wash (nos.)		7.12	7.12
	TOTAL	79.91	49.74	101.54
	- Raw Wastewater to S.T.P.		INPUT	101.54
	-Treated Wastewater from S.T.P.		OUTPUT	99.00
	- Treated Wastewater to REUSE			49.74
	- Treated Wastewater disposal			49.26

B. WASTE WATER GENERATION FOR DUPLEX

Sl. No.	Category	Water requirement (KLD)		Waste water to the STP (KLD)
		Fresh Water (KLD)	Treated Wastewater (KLD)	
1	Residential Population	32.11	15.82	38.34
2	Floating Population	0.18	0.36	0.43
3	O & M Population	1.07	0.53	1.28
4	Irrigation		17.24	-
5	Car Wash(nos)		5.68	5.68
	TOTAL	33.36	39.62	45.72
	• Raw Wastewater to S.T.P.		INPUT	45.72
	• Treated Wastewater from S.T.P.		OUTPUT	44.58
	• Treated Wastewater to REUSE			39.62
	• Treated Wastewater disposal			4.96

C. WASTE WATER GENERATION FOR ADDITIONAL 22 UNITS IN THE 11 TOWERS OF THE EXISTING UNIT

Sl. No.	Category	Water requirement		Waste water to the STP (Kld)
		Fresh Water (Kld)	Treated Waste water (Kld)	
1	Residential Population	9.9	4.95	11.88
2	Floating Population	0.06	0.11	0.136
3	O&M Population	0.33	0.17	0.4
4	Car Wash	-	0.88	0.88
	Total	10.29	6.11	13.30
	Raw Wastewater to S.T.P			13.3
	Treated Wastewater from S.T.P.			12.97
	Treated Wastewater for Reuse			6.11
	Treated Wastewater for disposal			6.86

9. Wastewater Treatment

2 STPs based on SBR (Sequential Batch Reactor) Technology of capacities 100 KL & 50 KL shall be set up for the Towers and the Duplex respectively, i.e. for expansion part of the project. Wastewater from the additional 22 flats in 11 Towers of existing project shall be treated in the existing STPs with existing part of the project. Treated water, meeting the relevant norms, to the tune of 95.47 KLD, will be used for non-critical purposes like toilet flushing, car washing & irrigation purposes, etc. within the complex. Treated wastewater in excess (61.08 KLD) will be discharged into the public sewer system.

10. Municipal Solid Waste Generation and Its Management:

During Construction phase, discarded cement bags, waste paper and cardboard packing material etc. will be sold off to recyclers. Unusable steel bits and pieces will be collected at site and sold to the recyclers. Construction debris and excavated earth will be used for land development purposes within the project site.

Solid waste generated during operational phase of expansion part of the project (around 674.8 kg/day) will be domestic in nature. These solid wastes will be segregated into biodegradable and non-biodegradable wastes and collected in separate bins. The non-biodegradable recyclable wastes will be sold to recyclers and the biodegradable and non-biodegradable inert / unusable wastes will be collected by BDA for final disposal on regular basis.

11. Rain Water Harvesting:

Rain Water Recharging pits are being proposed for artificial rain water recharge within the project premises. 5 nos. of rainwater recharge pits have been proposed.

12. Storm Water Management

A well-designed storm drainage system will be constructed in the complex. Storm drains of the complex will collect and convey the rain water into the adjacent public sewer / drainage system. While designing the internal drainage system, invert level of the public rain in-front of the project site will be given due consideration to avoid any floods or water logging in the site.

13. Electricity, DG sets, Stack height

Electricity will be supplied by CESU. The connected load will be about 1603 KVA. Electricity will be sourced from CESU. The expansion part of the project shall be provided with 2 DG sets of 500 KVA capacity each. The emission from DG sets will be discharged through a 4.5 meter stack for each DG set above the roof of the building. Low sulphur diesel will be used.

14. Project Cost: Estimated Project cost is around 80 Crores.

15. Plantation / greenbelt: 20.7 % has been earmarked for greenbelt area.

16. The proponent had started construction work on site without prior Environmental Clearance under EIA Notification 2006. 22 additional flats have been constructed in phase – I. In phase – II excavation work has been started for duplex low rise bungalow nos. 1,8,9,10,11. Raft foundation has been completed and tie beam work is going on for duplex low rise bungalow nos. 2,3,4,5,6,7. Hence, this a violation case.

17. The proponent submitted the proposal to MoEF&CC, Govt. of India on 12.09.2017 as violation case as per MoEF&CC, Govt. of India Notification S.O. 804 (E) dated 14.03.2017.

18. The MoEF&CC, Govt. of India had issued Office Memorandum No. Z-11013/22/2017-IA-II (M), dated 15.03.2018, which stipulates that all the proposals of category 'B' projects/activities pertaining to different sectors, received within six months only i.e. up to 13th September, 2017 on the MoEF&CC, Govt. of India portal, but yet not considered by

the EAC of MoEF&CC, Govt. of India, shall be transferred online to the SEAC/SEIAAs in the respective States/UTs.

19. This proposal was not considered by the EAC of MoEF&CC, Govt. of India. Hence, the MoEF&CC, Govt. of India had transferred the proposal to SEIAA, Odisha for consideration as per MoEF&CC, Govt. of India Notification S.O. 804 (E) dated 14.03.2017.
20. The proponent along with the consultant Envirotech East Pvt. Ltd. UNF-13, Unnayan Commercial Complex, 1050/1, Survey Park, Kolkata-700075 made a detailed presentation before the SEAC.
21. The SEAC on its meeting held on 10-08-2018 after detailed deliberations on the proposal in terms of the provisions of the MoEF&CC, Govt. of India Notification dated 14th March, 2017, confirmed the case to be of violation of the EIA Notification, 2006 and recommended to take decision on the proposal after receipt of the following. A site visit to the existing project also to be conducted by the Sub-Committee of SEAC to verify the present development.
 - a) Detailed construction status of existing project for which Environmental Clearance obtained including greenbelt, drainage system, STP and Solid Waste Management.
 - b) Details of the proposed project along with modified approval of BDA for the proposed project.
 - c) Details of construction already done for the proposed project for which the case has been considered as a violation case whether the section of column of foundation is sufficient for proposed extension of project.
 - d) Status of clearance from Water Resources Department, Govt. of Odisha for drawal of water for existing project.
 - e) Greenbelt area of 20% to be justified for the existing as well as proposed project.
 - f) Solid waste management plan for the proposed project.
 - g) Detailed water balance of existing as well as proposed project.
22. The Sub-Committee of SEAC had visited the site on 17-08-2018. The Committee observed the following during the visit:
 - a) Construction work for the proposed project is going on.
 - b) Greenbelt in the existing complex is found missing / not available except decorative plants.
23. The Sub-Committee recommended that the construction of any nature should be immediately stopped forthwith by appropriate authority.
24. The SEAC in its meeting held on 29-09-2018 decided to request the SEIAA, Odisha to issue direction to the proponent to stop construction activity immediately and accordingly the SEIAA, Odisha was requested vide letter no: 859/SEAC-59, 22-10-2018 to issue direction to the proponent.
25. Now the project proponent has furnished compliances in hard copy as desired by the committee vide letter dated 06.12.2019 as follows. The proponent has not uploaded the information / documents as sought for in online portal and same is showing pending at the proponent level.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Detailed construction status of existing project for which Environmental Clearance obtained including greenbelt, drainage system, STP and Solid Waste Management.	<ul style="list-style-type: none"> • Greenbelt development has already been initiated at site. 786 numbers of trees have already been planted at site. Additional 400 trees are under plantation. Total 1186 number of trees shall be there at site. The details of plantation are as per Annexure -1. • The project premises has an efficient drainage system which has been designed taking into consideration the ground profile and the different drainage channels in the neighborhood and it has been ensured that there is no water logging within the premises. As such, no impact on the natural drainage pattern of the area is envisaged due to operation of this project. • Two STPs of 330 KL capacity (for Block -1 to 8) and 100 KL capacity (Block -9 to 11) have already been installed at site. STP details and related documents have been provided in Annexure -2A & 2B. • 2 Garbage rooms adding up to 1700.75 sqft. area has been provided for segregation of municipal solid waste. Agreement with a private agency has been already done for collection and disposal of MSW. So as to keep the development in line with the modern day requirements, additionally 2 Nos. of composter plants of 250 Kg capacity for Block 9 -11 and 750Kg capacity for Blocks 1-8 have been ordered for management of organic waste. Attached offer letter and order copy of composters – Annexure -3. This will be at site within the next 5-6 weeks. • MSW collection agreement has been provided in Annexure – 4.
(ii)	Details of the proposed project along with modified approval of BDA for the proposed project.	Modified approval of BDA for the proposed project has been presented in Annexure - 5
(iii)	Details of construction already done for the proposed project for which the case has been considered as a violation case whether the section of column of foundation is sufficient for proposed extension of project.	Additional 22 flats have been built in the 11 blocks of Phase 1, details in Annexure - 6 . Status report of expansion (Phase -2) is attached as Annexure -7 . Structural Stability Certificate for 22 additional flats have been attached as Annexure – 8 .
(iv)	Status of clearance from Water Resources	Ground Water Clearance letter no. 21-4(276)/CGWA/SER/2010-2547 Dated 5 th Nov, 2010,

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	Department, Govt. of Odisha for drawal of water for existing project.	by Central Ground Water Authority has been presented in Annexure - 9
(v)	Greenbelt area of 20% to be justified for the existing as well as proposed project.	Greenbelt area has been considered based on the total land area and the land use plan. Calculation for the number of trees has been done taking into consideration 700 trees / hectare. Greenbelt details have been provided in Annexure -1
(vi)	Solid waste management plan for the proposed project.	2 Garbage rooms adding up to 1700.75 sqft. Area has been provided for segregation of municipal solid waste. Agreement with a private agency has been already done for collection and disposal of MSW. 2 nos of composter plants of capacity 250 Kg capacity for Blocks 9-11 and 750 kg capacity for Blocks 1-8 have been ordered for management of organic waste. MSW garbage collection agreement has been provided in Annexure - 4 . Order copy composter plants are provided in Annexure - 3
(vii)	Detailed water balance for existing as well as proposed project	Detailed water balance for existing as well as proposed project has been provided in Annexure - 10 .

26. The SEAC in its meeting held on 24.12.2019, recommended the following:

- (i) The SEIAA, Odisha may be requested to intimate the status of direction if any issued to the proponent as requested vide letter no. 859/SEAC-59, dated 22.10.2018.
- (ii) The proponent may be requested to upload the information / documents as sought for by the SEAC vide letter no. 743(2)/SEAC-Misc.28, dated 10.09.2018 in online portal for further processing of the application of the proponent.

27. The SEIAA, Odisha has already issued direction to the proponent vide letter no. 8455/SEIAA, dated 19.06.2020 to stop all construction activities. However, the proponent has not yet uploaded the information / documents as sought for by the SEAC in the online portal.

28. The SEAC in its meeting held on Dt: 03.07.2020 decided to issue a reminder to the proponent to upload information / documents as sought for by the SEAC vide letter no. 743(2)/SEAC-Misc.28, dated 10.09.2018 in the online portal.

29. Now the project proponent has uploaded the information / documents as sought for in online portal.

30. The SEAC in its meeting held on Dt: 22.01.2021 decided to take decision on the proposal after a site visit to the project area by the Sub-Committee of SEAC to verify the present status.

31. The sub-Committee of SEAC visited the project site on dated 12.02.2021 and following observations and recommendations were made:

- a) During the site visit, the representative on behalf of the project proponent and their Architect present stated that their proposal for expansion of the project has been dropped. The few structures for Duplex buildings found to have been constructed will be

- demolished. Therefore, they have only issue of violation on account of construction of additional floors / units in few towers without environmental clearance.
- b) The sub-committee also went around the complex and checked the physical position of green belt, disposal of treated waste water, drainage, re-charging of rain and run-off water, parking, STP, location and stack height of DG set, provision of solar power and piezometer etc.
- c) No pedestrian pathways exist at the entry and exit gates with the above, the committee recommends the following:
- i) The proponent need to execute and submit an legal affidavit that they will not go for any expansion without environmental clearance for the same and they will demolish within a month time the duplex housing structures constructed for expansion purpose.
 - ii) Detailed environmental clearance compliance report duly certified / authenticated by MoEF&CC, Regional Office, Bhubaneswar.
 - iii) A comparative matrix as per existing environmental clearance and additional construction made as violation with respect to change in floors / units, green belt, drainage, parking, water consumption and waste water generation and discharge of the same with water balance and flow diagram thereof and its management, rain water harvesting and recharging and other relevant environmental parameters be submitted.
 - iv) Lay out showing the network of waste water, rain and run-off water and the recharging facilities be submitted with corresponding quantities for both monsoon and non-monsoon period. Internal drain map also to be submitted.
 - v) Copy of approval letter of BDA with building plan for additional construction of floors / units
 - vi) Approval with technical write up indicating justification for safety and structural stability for additional floors /units from BDA approved structural Engineer / appropriate authority be submitted.
 - vii) NOC from Airport Authority of India for increase in the height of towers.
 - viii) Permission from appropriate authority of 'Nala' where treated waste water is discharged to take the additional load of waste water.
 - ix) The proponent need to submit the supporting document that the existing environmental clearance granted / BDA approval did not have the provision for pedestrian pathways at entry / exit gate.
 - x) Green belt shall be strengthened by planting more tree saplings in the designated green belt

32. The SEAC in its meeting held on 19.03.2021 decided to take decision on the proposal after receipt of the following information / documents as recommended by the sub-committee of SEAC.

33. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent																																																																																												
i)	The proponent need to execute and submit an legal affidavit that they will not go for any expansion without environmental clearance for the same and they will demolish within a month time the duplex housing structures constructed for expansion purpose.	The required Affidavit is attached in Annexure – 1 .																																																																																												
ii)	Detailed environmental clearance compliance report duly certified / authenticated by MoEF&CC, Regional Office, Bhubaneswar.	Certified compliance from Regional Office of MoEF & CC for existing project will be submitted at the time of expansion project.																																																																																												
ii)	A comparative matrix as per existing environmental clearance and additional construction made as violation with respect to change in floors / units, green belt, drainage, parking, water consumption and waste water generation and discharge of the same with water balance and flow diagram thereof and its management, rain water harvesting and recharging and other relevant environmental parameters be submitted.	<p>A total number of 22 flats have been added in the 11 existing towers built in the 1st phase. Out of these 22 flats, 16 Nos flats have been built by rearranging the ground floors and 6 Nos. of flats are constructed as upper floor(s) in the 11 existing towers as follows:</p> <table border="1"> <thead> <tr> <th>Sl No.</th> <th>Name of the Tower</th> <th>Flat No.</th> <th>Location where the flat is added</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Anagha</td><td>GR-AB</td><td>Ground</td></tr> <tr><td>2.</td><td>Anagha</td><td>GR-AD</td><td>Ground</td></tr> <tr><td>3.</td><td>Bhudeva</td><td>GR-BB</td><td>Ground</td></tr> <tr><td>4.</td><td>Bhudeva</td><td>GR-BD</td><td>Ground</td></tr> <tr><td>5.</td><td>Chandrapal</td><td>GR-CB</td><td>Ground</td></tr> <tr><td>6.</td><td>Kailash</td><td>GR-KD</td><td>Ground</td></tr> <tr><td>7.</td><td>Lingaraja</td><td>GR-LA</td><td>Ground</td></tr> <tr><td>8.</td><td>Lingaraja</td><td>GR-LB</td><td>Ground</td></tr> <tr><td>9.</td><td>Lingaraja</td><td>GR-LD</td><td>Ground</td></tr> <tr><td>10.</td><td>Nilakantha</td><td>GR-NE</td><td>Ground</td></tr> <tr><td>11.</td><td>Omkaara</td><td>GR-OC</td><td>Ground</td></tr> <tr><td>12.</td><td>Omkaara</td><td>GR-OB</td><td>Ground</td></tr> <tr><td>13.</td><td>Omkaara</td><td>GR-OD</td><td>Ground</td></tr> <tr><td>14.</td><td>Omkaara</td><td>14OD</td><td>14th Floor</td></tr> <tr><td>15.</td><td>Sadashiva</td><td>GR-SA</td><td>Ground</td></tr> <tr><td>16.</td><td>Sadashiva</td><td>GR-SB</td><td>Ground</td></tr> <tr><td>17.</td><td>Sadashiva</td><td>GR-SD</td><td>Ground</td></tr> <tr><td>18.</td><td>Sadashiva</td><td>14SB</td><td>14th Floor</td></tr> <tr><td>19.</td><td>Tripurari</td><td>13TB</td><td>13th Floor</td></tr> <tr><td>20.</td><td>Tripurari</td><td>14TB</td><td>14th Floor</td></tr> <tr><td>21.</td><td>Tripurari</td><td>14TC</td><td>14th Floor</td></tr> <tr><td>22.</td><td>Tripurari</td><td>14TA</td><td>14th Floor</td></tr> </tbody> </table> <p>There are total 625 nos. of flats is built in the 1st phase of the development and the 22 nos. of flats added to the approved project. The following is enclosed as desired:</p> <p>A Comparative Matrix of Flats/Units, green belt, drainage, parking, water consumption and waste water generation and discharge, rain water harvesting and recharging is</p>	Sl No.	Name of the Tower	Flat No.	Location where the flat is added	1.	Anagha	GR-AB	Ground	2.	Anagha	GR-AD	Ground	3.	Bhudeva	GR-BB	Ground	4.	Bhudeva	GR-BD	Ground	5.	Chandrapal	GR-CB	Ground	6.	Kailash	GR-KD	Ground	7.	Lingaraja	GR-LA	Ground	8.	Lingaraja	GR-LB	Ground	9.	Lingaraja	GR-LD	Ground	10.	Nilakantha	GR-NE	Ground	11.	Omkaara	GR-OC	Ground	12.	Omkaara	GR-OB	Ground	13.	Omkaara	GR-OD	Ground	14.	Omkaara	14OD	14 th Floor	15.	Sadashiva	GR-SA	Ground	16.	Sadashiva	GR-SB	Ground	17.	Sadashiva	GR-SD	Ground	18.	Sadashiva	14SB	14 th Floor	19.	Tripurari	13TB	13 th Floor	20.	Tripurari	14TB	14 th Floor	21.	Tripurari	14TC	14 th Floor	22.	Tripurari	14TA	14 th Floor
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Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		attached in Annexure -2
v)	Lay out showing the network of waste water, rain and run-off water and the recharging facilities be submitted with corresponding quantities for both monsoon and non-monsoon period. Internal drain map also to be submitted.	Layout showing waste water drain network, rain water drain and recharging facilities is attached in Annexure -3 .
v)	Copy of approval letter of BDA with building plan for additional construction of floors / units	a) Copy of the Building Sanction Plan dated 13.02.2017 in which the additional 22 flats stands sanctioned is attached in Annexure-4 . b) The Building Occupancy Certificate is attached in Annexure-5 .
vi)	Approval with technical write up indicating justification for safety and structural stability for additional floors /units from BDA approved structural Engineer / appropriate authority be submitted.	The Design Calculation and Safety Certificate as were duly considered while granting the Sanction Plan of the additional area is attached in Annexure – 6 .
ii)	NOC from Airport Authority of India for increase in the height of towers.	The NoC has been granted by Airport Authority of India (AAI) and the validity of the NoC is till 2026. NoC copy is attached in Annexure-7 .
ii)	Permission from appropriate authority of 'Nala' where treated waste water is discharged to take the additional load of waste water.	Permission from BDA for disposing of treated waste water is attached in Annexure-8 .
x)	The proponent need to submit the supporting document that the existing environmental clearance granted / BDA approval did not have the provision for pedestrian pathways at entry / exit gate.	The existing Environmental Clearance is attached in Annexure-9 The same does not contain any provision for Pedestrian Pathways at entry / exit gate. The same may be considered. A copy of the Sanction Plan (being annexure 4 hereto) showing additional 22 flats may please be considered. The Ground floor plan will reveal that there is no provision for pedestrian pathways at the entry / exit gate.
x)	Green belt shall be strengthened by planting more tree saplings in the designated green belt.	Greenbelt area has been considered based on the total land area and the land use plan. Calculation for the number of trees has been done taking into consideration 700 trees/hectare. Total 1425 nos. of trees has already planted at site Annexure -10 .

34. The SEAC, after detailed deliberations on the proposal in terms of the provisions of the MoEF&CC, Govt. of India Notification dated 14th March, 2017, confirmed the case to be of violation of the EIA Notification, 2006 and recommended for the following:-

- (i) The State Government / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986, and further no consent to operate or occupancy certificate to be issued till the project is granted Environmental Clearance.
- (ii) Grant of Terms of Reference for undertaking EIA and preparation of Environment Management Plan (EMP) as enumerated in **Annexure-E**.
- (iii) The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation

plan with the SPCB prior to the grant of Environmental Clearance. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.

ITEM NO. 09

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF (LB+UB+S+10) HOTEL-CUM-MULTIPLEX BUILDING PROJECT AT MOUZA – CHANDRASEKHARPUR, BHUBANESWAR OF M/S RISK SOFTWARE SOLUTION PVT. LTD. WITH TOTAL BUILT UP AREA 35,191.96 M² (EC)

1. M/s Risk Software Solution Pvt. Ltd. has applied for environmental clearance for construction of (LB+UB+S+10) Hotel-Cum-Multiplex building project at Mouza – Chandrasekharpur, Bhubaneswar of M/s Risk Software Solution Pvt. Ltd. with total built up area 35,191.96 m².
2. The project falls in item 8(a) of Building and construction project as per the EIA Notification, 2006 and 2009 and subsequent amendments theretof of MoEF & CC.
3. The Hotel Multiplex Building Project site is located at Village Mouza Chandrasekharpur, Bhubaneswar, District - Khorda. The Geographical co-ordinate of the project site is: Latitude - 20° 20' 34" N & Longitude - 85° 48' 51.9" E. The site is around 5 km from Centre of Bhubaneswar city. The site is well connected with road. The nearest railway station is Bhubaneswar on SE Railway which is around 9 km. from the site and the nearest airport is Biju Patnaik Airport which is at distance of 10 Km. There is no stream passes through the project site.
4. The proposed project envisages construction of a multi-storied building with LB+UB+G+10 floors over IDCO Plot No.-7, Rev Plot No.65(P), 66(P), 67(P), Khata No. 612 at Mouza - Chandrasekharpur of Bhubaneswar, Dist – Khorda, Odisha. The maximum temperature is about 36.0° C and the minimum temperature is 16.0° C felt in the area. The average annual rainfall in the area is 1447.5 mm.
5. In this proposed multi storied project 'Hotel Cum Multiplex' consisting of 87 shops and 95 suites/rooms, multiplex in LB+UB+G+10 floors of the proposed commercial/ residential multiplex along with party lawn, party hall, lobby, food court, games area, ATM, Swimming pool, Spa, Salon, Gym, Restaurants, club and other common facilities.
6. The total plot area of project is estimated 8096.26 Sq.mt (2.0 acres) and built up area of 35942.14 Sq.mt. Maximum height of the building = 26m.

The detailed area statement is provided below in Table 1
(Table 1)

Sl. No.	Particulars	Area sq.mt
(i)	Possession Plot Area	8096.26
(ii)	1 st Basement Area	6897.36
(iii)	Service Area	1988.05
(iv)	Parking Area	4909.31
(v)	2 nd Basement Area	6906.45
(vi)	Service Area	1863.57
(vii)	Parking Area	5042.88

Sl. No.	Particulars	Area sq.mt
(viii)	Ground Floor Area	4262.99
(ix)	1 st Floor Area	3576.16
(x)	2 nd Floor Area	3215.89
(xi)	3 rd Floor Area	4221.56
(xii)	4 th Floor Area	1989.66
(xiii)	5 th Floor Area	419.56
(xiv)	6 th Floor Area	1519.75
(xv)	Typical Hotel Floor Area (5 nos) – 586.55 sqmt	2932.76
(xvi)	Total Floor Area	22138.33
(xvii)	Total Built up Area	35942.19
(xviii)	Total Parking Area	9952.19
(xix)	Total FAR Area	22138.33
(xx)	FAR....2.73	
(xxi)	20% Plantation Area	1619.253
(xxii)	Maximum No. of Floor	5
(xxiii)	Power/Electricity Requirement & Sources	Grid supply at 33KV
(xxiv)	No. of DG sets	2 nos. of 820 kVA (1 X 500 + 1 X 320 kVA)
(xxv)	Water requirement & Sources	321 KLD
(xxvi)	Sewage Treatment & Disposal	STP Capacity - 200 KLD
(xxvii)	Estimated Population-Residential, Floating/visitors	2432

REQUIREMENT FOR THE PROJECT:

7. Power requirement: Power requirement for the project is approx. 1000 KW. 2 nos. transformers of 750 KVA each will be provided at the site. Source of power will be OSEB. 2nos. D.G. sets of total capacity 820 kVA (1 X 500 + 1 X 320 kVA) will be provided for power back up. Stacks will be provided with DG sets so as emissions can be discharged at app. 5 m.
8. Water Requirement: Fresh make up of 321 KLD will be required for the project which will be sourced from Ground water. NOC from CGWA has been obtained. Waste water of 181 KLD will be treated in a STP of 200 KLD capacity.
9. Rain water will be harvested annually approx. 7164 m³ of rainwater that will recharged to ground water system through 2 nos. of recharging structures.
10. Fire fighting Installations will be installed as per recommendation of the Fire fighting Officer, Odisha and as per the guideline of NBC (part-4). Fire NOC had been obtained.
11. Green Belt Development: Green belt will be developed over an area of 1619.253 sqm which is 20 % of the plot area; by using the local species like Radhachuda, Nageswar, Akash Neem, Ashok, Polanga, Karang, Bela, Pijilu, Kaniara, Tagar, Hena, etc.
12. Solid waste Management: Total solid waste generation is 491 kg/day. The solid waste will be segregated at source & collected. Adequate number of colored bins (green, blue & dark

Proceedings of the SEAC meeting held on 13.09.2021

Environmental Scientist, SEAC

grey) separate for bio-degradable and non-biodegradable are proposed to be provided at the strategic location within site. An agency shall be appointed to collect and dispose the Organic and inorganic waste which shall be commencing the works at the time of operations. STP sludge is proposed to be used for horticultural purposes as a manure. Horticultural Waste is composted and used for gardening purposes. Recyclable wastes will be disposed to vendors.

13. The project cost is ` 35.00 crores. Environment management cost is ` 1.04 lakhs.
14. The project proponent along with the environment consultant **M/s Cognizance Research India Pvt. Ltd, Noida** made a detailed presentation before the SEAC.
15. The SEAC in its meeting held on 20.07.2019 decided to take decision on the proposal after the proponent submits the following information/ documents followed by site visit by the sub-Committee of SEAC.
 - a) Detailed layout map (master plan) in A1 size indicating width of the green belt, solid waste storage area and other activities.
 - b) Land schedule and kism of land.
 - c) BDA plan approval letter with map.
 - d) Percentage of area for parking should be revised according to BDA Parking norms and breakup area of parking for hotel and multiplex should be mentioned separately.
 - e) Status of permission from Water Resources Department, Govt. of Odisha for drawal of Ground Water.
 - f) Water Balance diagram in detail.
 - g) Layout showing Drainage plan both in non-monsoon and monsoon season.
 - h) Details of Rain Harvesting methods, recharging pits, with detail calculation.
 - i) Detail water balance diagram of water requirement along with compensating water from Rain water Harvesting system.
 - j) Stack height of DG set should be mentioned.
 - k) Certificate from the concerned DFO about the distance of the project site from the Eco-Sensitive Zone of Chandaka-Dampada Wildlife Sanctuary and Nandan Kanan Sanctuary.
 - l) Status of Wildlife Clearance along with copy of the application submitted for Wildlife Clearance (if any) as the project is located within 10 km (default) from the boundary of Nandan Kanan Sanctuary.
 - m) Details of Renewable energy to be used in project.
 - n) Detailed proposal for usage of solar pumps to increase the usage of Solar energy in the project.
 - o) Exploring the possibility of treatment of waste water in a pond / reservoir by treatment with algae including maintaining its water quality for different purposes to reduce the burden on ground water use if allowed by Water Resource Department, Govt. of Odisha.
 - p) Traffic density study by Operation Research (OR) Expert and copy of the same shall be submitted.

16. The proponent was requested vide letter no. 211 (3)/SEAC-Misc.-28, dated 21.08.2019 to submit the above information / documents through online system. They have not yet submitted the information / documents in the online system.
17. The Sub-Committee of SEAC visited the proposed site on 18.03.2020. The Sub-Committee has recommended to submit the following information / documents for consideration of Environmental Clearance.
- (i) Origin of the existing drain and its discharge point be indicated through a schematic diagram with site as one of the important co-ordinates.
 - (ii) Estimate of the excess discharge (pre & post monsoon) after treatment and submit the report including the estimate of the storm /run-off water if any proposed to be discharged to the some drain and submit the report. It may be noted that no treated effluent / water should be disposed / discharged into such drain as per the standard MoEF&CC, Govt. of India guidelines as an Environmental clearance condition.
 - (iii) To obtain permission from the concerned Authorities to discharge the liquid waste as estimated above through the existing drain to the final location of discharge i.e. the Competent Authority of the drain & the final discharge point as well.
 - (iv) Permission from the Concerned Authority for use of ground water provided IDCO disagrees to supply domestic water.
 - (v) But once IDCO water supply is made available to the project / that area, the bore wells (except one number) should be abandoned and intimated to Water Resources Authority and one number bore well may remain operational as standby domestic water source.
 - (vi) A detailed traffic management plan and traffic Congestion plan with traffic density study by a reputed Govt. organization of national repute must be done and plan must be done to ensure that the current level of service of the Infosys road joining the main road (Jaydevvihar – Trishulia Road) is maintained and improved upon after the implementation of the project. The study and the plan should be based on cumulative impact of the traffic due to development and increased habitation for atleast next 10 years. The plan should be accepted by the Govt. CA.
 - (vii) A detailed solid waste management plan be submitted.
 - (viii) Distance from the nearest ESZ be indicated and a letter to this effect be submitted from the Concerned Authority.
18. The SEAC in its meeting held on Dt: 26.06.2020 decided to take decision on the proposal after receipt of compliance to the recommendations of Sub-Committee of SEAC during site visit on 18.03.2020 in addition to the information / documents as sought vide letter no. 211 (3)/SEAC-Misc.-28, dated 21.08.2019 through online portal and hard copy.
19. The project proponent has furnished compliances as desired by the committee vide letter no: dated 30.07.2020 and same has been verified as follows:
- a) Compliance to the information / documents as sought vide letter no. 211 (3)/SEAC-Misc.-28, dated 21.08.2019.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(I)	Detailed layout map (master plan) in A1 size indicating width of the green belt, solid waste storage	Detailed layout map furnished.	----

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	area and other activities.		
(II)	Land schedule and kism of land.	Land schedule and kism of land furnished.	----
(III)	BDA plan approval letter with map.	BDA plan not furnished.	BDA plan approval letter with map to be furnished.
(IV)	Percentage of area for parking should be revised according to BDA Parking norms and breakup area of parking for hotel and multiplex should be mentioned separately.	Details not furnished.	Percentage of area for parking should be revised according to BDA Parking norms and breakup area of parking for hotel and multiplex should be mentioned separately to be furnished.
(V)	Status of permission from Water Resources Department, Govt. of Odisha for drawal of Ground Water.	Status of permission from Water Resources Department not furnished. However, copy of ground water permission has been furnished.	Status of permission from Water Resources Department, Govt. of Odisha for drawal of Ground Water to be furnished.
(VI)	Water Balance diagram in detail.	Water Balance diagram furnished.	----
(VII)	Layout showing Drainage plan both in non-monsoon and monsoon season.	Layout showing Drainage plan not furnished.	Layout showing Drainage plan both in non-monsoon and monsoon season to be furnished.
(VIII)	Details of Rain Harvesting methods, recharging pits, with detail calculation.	Details of Rain Harvesting methods furnished.	-----
(IX)	Detail water balance diagram of water requirement along with compensating water from Rain water Harvesting system.	Furnished	-----
(X)	Stack height of DG set should be mentioned.	Not furnished	Stack height of DG set should be mentioned.
(XI)	Certificate from the concerned DFO about the distance of the project site from the Eco-Sensitive Zone of Chandaka-Dampada Wildlife Sanctuary and Nandan Kanan Sanctuary.	Certificate w.r.t Chandaka-Dampada Wildlife Sanctuary furnished. But not furnished about Eco-Sensitive Zone (Default) Nandan Kanan Sanctuary.	Certificate from the concerned DFO about the distance of the project site from the Nandan Kanan Sanctuary
(XII)	Status of Wildlife Clearance along with copy of the application submitted for Wildlife Clearance (if any) as the project is located within 10 km (default) from the boundary of Nandan Kanan Sanctuary.	Certificate w.r.t Chandaka-Dampada Wildlife Sanctuary furnished. But not furnished about Eco-Sensitive Zone (Default) Nandan Kanan Sanctuary.	Status of Wildlife Clearance along with copy of the application submitted for Wildlife Clearance (if any) as the project is located within 10 km (default) from the boundary of Nandan Kanan Sanctuary.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(XIII)	Details of Renewable energy to be used in project.	Not furnished	Details of Renewable energy to be used in project to be furnished.
(XIV)	Detailed proposal for usage of solar pumps to increase the usage of Solar energy in the project.	Not furnished	Detailed proposal for usage of solar pumps to increase the usage of Solar energy in the project to be furnished.
(XV)	Exploring the possibility of treatment of waste water in a pond / reservoir by treatment with algae including maintaining its water quality for different purposes to reduce the burden on ground water use if allowed by Water Resource Department, Govt. of Odisha.	Not furnished	Exploring the possibility of treatment of waste water in a pond / reservoir by treatment with algae including maintaining its water quality for different purposes to reduce the burden on ground water use if allowed by Water Resource Department, Govt. of Odisha to be furnished.
(XVI)	Traffic density study by Operation Research (OR) Expert and copy of the same shall be submitted.	Not furnished	To be submitted as sought by SEAC.

b) Compliance to the recommendations of Sub-Committee of SEAC during site visit on 18.03.2020.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	Origin of the existing drain and its discharge point be indicated through a schematic diagram with site as one of the important co-ordinates.	The same is attached as Annexure 1	The Annexure enclosed does not reveal Origin of the existing drain and its discharge point and its co-ordinates. Hence, to be submitted as sought.
(ii)	Estimate of the excess discharge (pre & post monsoon) after treatment and submit the report including the estimate of the storm /run-off water if any proposed to be discharged to the some drain and submit the report. It may be noted that no treated effluent / water should be disposed / discharged into such drain as per the standard MoEF&CC, Govt. of India guidelines as an Environmental clearance condition.	The same is attached as Annexure 2.	The Annexure enclosed does not comply to the queries of the sub-committee of SEAC. Hence, to be submitted as sought
(iii)	To obtain permission from the concerned Authorities to discharge the liquid waste as estimated	STP with dual plumbing technique is used all the waste water which is	Special conditions to be stipulated in EC and an undertaking in form of a

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	above through the existing drain to the final location of discharge i.e. the Competent Authority of the drain & the final discharge point as well.	treated is reused for flushing and gardening purposes no waste water is discharge in the drain if in future required then proper permission will be taken details of STP and waste water is attached in annexure	legal affidavit to be submitted as complied by the proponent.
(iv)	Permission from the Concerned Authority for use of ground water provided IDCO disagrees to supply domestic water.	CGWA Clearance is taken for withdrawal of ground water	(i) Special conditions to be stipulated in EC. (ii) Letter from IDCO is to be submitted that they cannot supply domestic water.
(iii)	But once IDCO water supply is made available to the project / that area, the bore wells (except one number) should be abandoned and intimated to Water Resources Authority and one number bore well may remain operational as standby domestic water source.	we will comply the statement and agreed to follow	Special conditions to be stipulated in EC.
(iv)	A detailed traffic management plan and traffic Congestion plan with traffic density study by a reputed Govt. organization of national repute must be done and plan must be done to ensure that the current level of service of the Infosys road joining the main road (Jaydevvihar – Trishulia Road) is maintained and improved upon after the implementation of the project. The study and the plan should be based on cumulative impact of the traffic due to development and increased habitation for atleast next 10 years. The plan should be accepted by the Govt. CA.	The same is attached as Annexure 4	Special conditions to be stipulated in EC.
(v)	A detailed solid waste management plan be submitted.	The same is attached as Annexure 5	Special conditions to be stipulated in EC.
(vi)	Distance from the nearest ESZ be indicated and a letter to this effect be submitted from the Concerned Authority.	The same is attached as Annexure 6 (DFO Letter)	Distance from Wild life sanctuary of Nandankanan to be submitted.

20. The SEAC in its meeting held on 12.10.2020 decided to take decision on the proposal after receipt of the certain information / documents / clarification from the proponent. Decision of the Committee was communicated to the proponent vide SEAC letter no. 600 (3)/SEAC-(Misc.)-28, dated 20.10.2020.

21. The project proponent has furnished compliances as requested by the SEAC vide letter no. 600 (3)/SEAC-(Misc.)-28, dated 20.10.2020 and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
(i)	BDA plan approval letter with map.	BMC letter attached as Annexure- I . The letter indicates that the BMC shall obtain clarification from Housing & Urban Development Department regarding modification of land use of CDP-2010 by realigning 60ft, wide Saswat Vihar – CIPET road as per order of DC-cum-ACS, Govt. Of Odisha	Specific Condition to be stipulated in EC.
ii)	Percentage of area for parking should be revised according to BDA Parking norms and breakup area of parking for hotel and multiplex should be mentioned separately.	Total parking area required for Multiplex = 50% of FAR area =50% of 23057 qm=11,528.59 sqm(A) Total parking area required for Hotel = 40% of FAR area = 40% of 2932.76 sqm=1,173.10 sqm....(B) Total –parking area required =A+B= 12,701.6 sqm Total parking area provided = LB+UB =6897.36 sqm+6906.45sqm=13,803.81 sqm which is 1102.21 sqm more than the MOTH / Bylaw of the BDA. Parking layout Attached as Annexure- 2	-
iii)	Status of permission from Water Resources Department, Govt. of Odisha for drawal of Ground Water.	Permission from Water Resources Department. Govt. of Odisha for drawl of Ground Water is been sought.	Specific condition to be stipulated in EC.
v)	Layout showing Drainage plan both in non-monsoon and monsoon season.	Process flow diagram for non-monsoon and monsoon season & lay out map of drainage system in and around the proposed project site to final discharge point Attached as Annexure-3	-----
v)	Stack height of DG set should be mentioned.	$H = h + 0.2 \times \sqrt{\text{KVA}}$ Where: H = Total height of stack in meter h = Height of the building in meters where the generator set is to be installed KVA = Total generator capacity of the set in KVA Building Height : 42.9 m This is an explicit formula for DG SET stack height calculation, irrespective of the type of industries where the generator set is installed. Based on the above formula the minimum stack height to be provided with different range of generator sets may be For 1X500 KVA – 47.3 m (4.47 m above the building height) & for 1X300 KVA-46.3m(3.4 m above	Specific condition to be stipulated in EC.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		the building height)	
vi)	Certificate from the concerned DFO about the distance of the project site from the Nandan Kanan Sanctuary.	The Google map showing project site and boundary line of Chandaka Wildlife Sanctuary according to notification 126. S.O. 2906(E) [09.09.2016] Final & Letter from DFO, Chandaka attached as Annexure- 4 .	Certificate for Nandan Kanan Sanctuary not submitted rather certificate submitted towards Chandaka – Dampada Sanctuary. Specific condition to be stipulated in EC that the proponent shall obtain Wildlife Clearance if the project will be located within Eco-Sensitive Zone of Nandan Kanan Sanctuary.
ii)	Status of Wildlife Clearance along with copy of the application submitted for Wildlife Clearance (if any) as the project is located within 10 km (default) from the boundary of Nandan Kanan Sanctuary.	The Google map showing project site and boundary line of Chandaka Wildlife Sanctuary according to notification 126. S.O. 2906(E) [09.09.2016] Final & Letter from DFO, Chandaka attached as Annexure-4 .	Not submitted. Specific condition to be stipulated in EC that the proponent shall obtain Wildlife Clearance if the project will be located within Eco-Sensitive Zone of Nandan Kanan Sanctuary.
ii)	Details of Renewable energy to be used in project.	Total power Consumption estimated as 1000 KW & we will be providing Solar power by PV Channel of 50 KW which works out 5 % of total power requirement. As per requirement of MoEF Guideline stipulates for 1% of total power requirement meet through Renewable energy. Solar power will be utilized in following area I. Solar Street light (solar lightingpole). II. Solar panel shall be installed in commercial block (Terrace Floor) and directly fade to basement lighting. III. Water heating system IV. Common area lighting Details of Renewable energy Attached as Annexure-5 .	Proposed to use renewable energy upto 5% of total power requirement.
x)	Detailed proposal for usage of solar pumps to increase the usage of Solar energy in the project.	Details of Renewable energy Attached as Annexure-5 .	-
x)	Exploring the possibility of treatment of waste water in a pond / reservoir by treatment with algae including maintaining its water quality for different purposes to reduce the burden on ground water use if allowed by Water Resource Department,	No treated waste water from the proposed project site will be discharged into the city drain. Treated water will be reused at the project site. The excess surface runoff shall be discharged into the adjacent drain only. The existing drain near the project site has the capacity to extract excess rain water.	Specific condition to be stipulated in EC.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	Govt. of Odisha.		
xi)	Origin of the existing drain and its discharge point be indicated through a schematic diagram with site as one of the important co-ordinates.	Origin of the existing drain and its discharge point be indicated through a schematic diagram on Google earth along with coordinates and drainage system of Chandrasekharpur with proposed site is attached as Annexure – 6.	Specific condition to be stipulated in EC.
ii)	Estimate of the excess discharge (pre & post monsoon) after treatment and submit the report including the estimate of the storm /run-off water if any proposed to be discharged to the some drain and submit the report. It may be noted that no treated effluent / water should be disposed / discharged into such drain as per the standard MoEF&CC, Govt. of India guidelines as an Environmental clearance condition.	Detail Estimation of water requirement, waste water generate and treated water reuse in other non-potable work along with rainwater harvesting from rooftop and other areas of proposed project site is given in Annexure-7.	Specific condition to be stipulated in EC.
ii)	Other points as mentioned in the column “views of SEAC”	-	Already covered in the reply.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Cognizance Research India Pvt. Ltd, Noida** on behalf of the project proponent, the SEAC recommended for grant of Environmental Clearance valid for a period of 7 years with stipulated conditions as per **Annexure-F** with following specific conditions:

- The proponent shall approve the Building plan from concerned authority before going for construction activity.
- The proponent shall obtain Wildlife Clearance before going for construction activity if the project will be located within Eco-Sensitive Zone of Nandan Kanan Sanctuary.

ITEM NO. 10

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

- The proposal is for Environmental Clearance for M/s Chettinad Cement Corporation Pvt. Ltd. for proposed 2x1.0 MTPA Cement Grinding Unit for production of PPC, PSC, OPC & GGBS cement, over an area of 83.0 Ac. situated at- Kalinganagar Industrial Complex, Tahasil - Dangadi, District- Jajpur of Mr. A. Annadurai.
- The project falls under Category “B”, Project or Activity 3 (b) as per schedule of EIA Notification dated 14th Sep, 2006, as amended from time to time.
- The total project area is 83.0 acres. About 27 acres (33%) of the total project area will be covered under green belt & plantation.
- The coordinates of the area are Latitude - 20°56'9.54” N and Longitude - 86°3'14.12” E. Nearest town is Duburi located at a distance of 7.0 Km from the project site. National

Proceedings of the SEAC meeting held on 13.09.2021

Environmental Scientist, SEAC

Highway (NH-200) is at a distance of 8.0 Km from the project site. Nearest village is Jakhapura Village-1.0 Km.

5. No National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger / Elephant Reserve, Wildlife Corridor etc. falls within 10 km radius of the plant site. Total Cost of the proposed project will be ` 120 Crores. Capital cost for environmental protection measures will be ` 290.00 lakhs and Recurring cost would be ` 30.0 Lakhs.
6. Total power requirement for the proposed project will be 10 MVA which will be sourced from Odisha Power Transmission Corporation Limited. Total nos. of employees will be 185.
7. Total water requirement of proposed project is 100 KLD and sourced from IDCO water supply from nearby Brahmani River.
8. Raw materials required for the proposed project are Clinker, Slag, Gypsum & Flyash. Clinker is proposed to be sourced from CCCPL's units established at Ariyalur, Ariyalur District, Tamil Nadu. Fly ash from nearby Thermal power plants. Gypsum will be procured from Pardeep Phosphate / IFFCO (110 Kms.) and slag would be procured from Jindal Stainless Limited, Tata Steel, Neelachal Ispat Ltd. Kalinganagar. Transportation of raw material and product (cement) would be done by road and railway.
9. Cooling Tower blow down will be re-circulated through cooling and treatment. The entire treated waste water will be recycled for various purposes inside the plant. Waste water generated from plant will be treated in the existing STP. The treated water from STP will be used for dust suppression & green belt development. Zero liquid discharge concept from plant operation shall be adopted
10. High efficient bag filters will be installed to maintain particulate matter emissions within permissible limit. Domestic effluent will be treated in STP and treated water will be used for plantation.
11. Dust collected from various pollution control equipment will be recycled back into the process. STP Sludge will be utilized as manure for plantation. Used oil will be sold to re-processors.
12. Earmuffs will be provided to all operators and employees working near the machinery to control noise pollution.
13. Drainage of the study area shows mainly dendritic pattern and consist of first, second and third order streams. Structurally controlled sub-parallel drainage can also be noted in the area. Overall drainage flow of the study area is from north to south and is mainly controlled by Brahmani River which flows from west to east at a distance of 5.3 Km in south side of the project site. Here, Brahmani River bifurcates into two streams- One stream as Kharsua River, which after flowing, continues to flow in the SW direction and Second stream continues as Brahmani River in south direction.
14. Streams such as Gonda nala, Ghagia nala, Kabari nala, Dhenkasai nala and Jhurjhuri nala flowing from northern part of the study area finally merge into the Brahmani River.
15. Within plant roof top rainwater harvesting shall be implemented. Harvested rain water will be recharged through a recharge pond (12m x 10m x 6m) to increase the ground water level of the area as per guidelines prescribed by Central Ground Water Board shall be taken into consideration for designing of rain water harvesting system. A part of rain water shall be preserved for plant use during lean season.
16. Baseline data collected from March'2019 to May'2019 (Pre - monsoon) as per MoEF&CC, Govt. of India Office Memorandum dated 29.08.2017.

Proceedings of the SEAC meeting held on 13.09.2021

Environmental Scientist, SEAC

17. ToR was issued for EIA study by the SEAC vide letter no. 1092/SEAC-173, dated 14.12.2018. Public Hearing was conducted on 06th March 2019.
18. The consultant **M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar** along with the proponent have made a detailed presentation on the EIA/EMP report on 27.11.2019. The SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent. The project 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
a)	Proposed Pollution Control Measures	Pollution Control Measures is enclosed as Annexure-1 .	Conditions to be stipulated in Environmental Clearance.
b)	Certified Copy of agreement that land has been transferred from IDCO to project proponent name	Copy of land agreement attached as Annexure-2	Compiled
c)	Supporting documents regarding land schedule and kissam of land	Land schedule attached as Annexure-3	The land schedule and kissam of land reveals that 81.98 acres is sala, Jhati Jungle under Sabak kissam. The hal kissam of land is "Patita" and "Sarada". The proponent has to submit a certificate from the concerned DFO about the status of the land (forest / non-forest)
d)	Material Balance for each products (Input and Output Balance) PPC, PSC, OPC & GGBS	Material balance for each products enclosed as Annexure-4	Compiled
e)	Use of phospho-gypsum being generated from fertilizer plants in Odisha may be explored in reference to quality requirement of the proponent and cost benefit analysis as well	<ul style="list-style-type: none"> ❖ Phospho-Gypsum from fertilizer Plants in Odisha can be utilized in the proposed Cement Grinding unit. ❖ P₂O₅ present in the Phospho Gypsum increases the setting time reducing the one day strength and moisture present in it reduces the flow ability of material hindering process. Whereas these issues are rarely observed in the Mineral Gypsum. ❖ Landing Cost is more in Imported Gypsum. Considering the quality requirement, Operation cost 	Conditions to be stipulated in Environmental Clearance as specific condition as confirmed by the proponent.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		is more in phospho Gypsum. ❖ Considering the above, Phospho Gypsum can be utilised 2-3 % which suits the required quality in the total Gypsum requirement of 5%.	
f)	Submission of detailed Plant layout showing storage yards of raw materials, coal storage unit, ash generated from coal, products along with garland drains and retaining walls	Detailed Plant Layout is enclosed as Annexure-5	Compiled
g)	Permission Copy from IDCO that water will be supplied for proposed plant use	Permission copy of Water attached as Annexure-6	Conditions to be stipulated in Environmental Clearance as specific condition.
h)	Submission of water balance to be used in this project in detail both monsoon and non-monsoon period	Water Balance enclosed as Annexure-7	Not given for both monsoon and non-monsoon period. Detailed water balance to be given (monsoon and non-monsoon period).
i)	Details of parking provision for incoming and outgoing vehicles in new plant, inside and outside the plant	Parking area inside and outside the plant boundary marked in layout and attached as Annexure-8	Compiled
j)	Details of quantity of materials to be transported by rail and road	Details of quantity of material attached as Annexure-9	Compiled
k)	Details of green belt area and list of plant species selected should be cyclone resistant and high green leaf area	Details enclosed as Annexure-10 . Total area of 27 acres (33%) out of 83 acres will be used for greenbelt development.	Conditions to be stipulated in Environmental Clearance.
l)	Drainage map showing location of 5 nallahs with distance from project site	Drainage Map is given in Annexure-12	Compiled
m)	ToR Point 4.xi to be complied in detail	ToR point 4.xi to be complied in detail and enclosed as Annexure-12	Compiled
n)	Repeat the study of inversion of temperature in winter season covering neighbouring industries along with the proposed plant and mitigative	Mixing Height data as given in the EIA/EMP report in Chapter-4 on hourly basis was taken from Envitrans website. Air Modelling, morning and afternoon mixing height data	Three years atmospheric inversion data to be given.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	measures if any. Sampling locations should include residential areas. Inversion study to be done and report submitted from any Govt. Institution of national repute	was referred from 'Atlas of Hourly Mixing Height and Assimilative Capacity of atmosphere of India (IMD, 2008)'. (The cover page of the Atlas is enclosed as Annexure-13a . For this project study on atmospheric inversion data, our consultant has requested to IMD Bhubaneswar and IMD Pune, but they have no data available with them for last 5 years. As per the notification of MoEF&CC, OM letter No.J-11013/41/2006-II (I) (part) dated 29th August 2017(copy of the same enclosed as Annexure-13 b } the baseline data should not be older than three years at the time of submission of proposal for grant of EC, as per the ToRs prescribed. But no data for atmospheric inversion are available for last three year with IMD.	
o)	Compliance to issues raised in public hearing conducted on 06 March 2019	Compliance to the public hearing issues raised is attached as Annexure-14	Conditions to be stipulated in Environmental Clearance.
p)	Repeat the Iron content analysis in surface water, and if it is high then measures taken for reduction of it	Surface water results attached as Annexure-15	Compiled
q)	Ground water to be monitored once again and ground water analysis report to be submitted	Ground Water results attached as Annexure-16	Compiled
r)	Traffic Density Study to be carried out by Operational Research (OR) expert and report to be submitted	Details enclosed herewith as Annexure- 17	Not complied. To be submitted as sought by SEAC.
s)	Plan for biodiversity assessment	Detailed enclosed as Annexure-18	Compiled
t)	Separate the budget of Corporate Environment Responsibility and Environment Management and give details of each	Budget of Corporate Environment Responsibility & Environment management Plan are separately provided in EIA Report.	Conditions to be stipulated in Environmental Clearance.
u)	Identify the CSR and CER activities to be done in the proposed project	Activities identified for Corporate Environment Responsibility are separately	Conditions to be stipulated in Environmental

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		provided in EIA Report & attached as Annexure-19 CSR activities will be executed after commencement of production.	Clearance.
v)	Specific Occupational health hazard study and check-ups to be done and budget allotted under it. Detail plan to be submitted	CCCPL will undertake regular periodical health checkup of our employees. Besides, One Mobile Medicare Unit will be functional which will provide door step services in villages and also provides medicine with free of cost. We will be operating a full time Occupational Health Centre with a qualified full time doctor. Once the plant will be in operation.	Conditions to be stipulated in Environmental Clearance.
w)	No. of water sprinklers and bag filters to be used	Enclosed as Annexure-20	Conditions to be stipulated in Environmental Clearance.
x)	Percentage of Solar/renewable energy used in the proposed project and detailed plan	As per the Proceedings of State level single window clearance authority Proceedings (73rd meeting Dt- 29.07.2017), we will meet 5% Energy requirement of our proposed Grinding unit through Renewal energy source. Proposed to utilized 5 % Renewal energy in the total power requirement 9MW i.e., around 0.5 MW. 0.5 MW Solar Power plant will be installed in the proposed Grinding unit campus.	Conditions to be stipulated in Environmental Clearance.
y)	Details of rainwater harvesting proposed in the plant and amount compensated towards water requirement / recharging as well	Details of rainwater harvesting enclosed in Annexure-21	Conditions to be stipulated in Environmental Clearance.
z)	Detailed Carbon balance / budget should be compiled	Coal consumption / year = 46000 T Avg. Calorific value = 3800 k.Cal/kg Expected CO ₂ emission = 70111 T Coal Emission CO ₂ emission factor – 95.8 g CO ₂ / MJ 1 k.cal = 4186.8 J Proposed to utilised 5 %	Complied.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		Renewal energy i.e., 0.45 MW i.e., 2970 MW which is equal to 2394 T of CO ₂ . (0.82 Central electricity authority CO ₂ baseline data June 2018) Greenbelt development proposed is 27000 no of trees. CO ₂ absorption potential of a 3 year old tree is 3.66 kg / year. i.e., 98 T of carbon dioxide absorption /year. Total carbon offset = 2394 +98 = 2492 T. Total Emission of CO ₂ = 70111 T Total CO ₂ offset = 2492 T Total CO ₂ emission = 67619 T	

19. The SEAC in its meeting held on 17.06.2020, decided to take decision on the proposal after receipt of certain information/documents from the proponent. The project 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
a)	The land schedule and kissam of land reveals that 81.98 acres is sala, Jhati Jungle under Sabak kissam. The hal kissam of land is "Patita" and "Sarada". The proponent has to submit a certificate from the concerned DFO about the status of the land (forest / non-forest).	Forest Diversion letter dtd.15th July, 2020 for allotted land of Ac.83.00 in favour for establishment of Cement Grinding Unit at Kalinganagar Industrial Complex, Jajpur of M/s. Chettinad Cement Corporation Private Limited enclosed as Annexure-I .	This is not clear from the enclosed letter that the land proposed for the Cement Plant is coming within the land area diverted as per Annexure-I . Certificate from the concerned DFO has not been furnished.
b)	Detailed water balance to be given (monsoon and non-monsoon period).	Detailed water balance for Monsoon & Non-monsoon period attached as Annexure-II .	Zero Liquid Discharge to be adopted and accordingly specific conditions to be stipulated in Environmental Clearance.
c)	Inversion study needs to be done by the proponent by an expert agency of national repute, preferably Govt. agency.	After commissioning of plant, Inversion study will be carried out.	Specific conditions to be stipulated in Environmental Clearance that the proponent need to submit the study report within 2 months of commercial operation of the plant and mitigation measures as and if necessary thereof to SEIAA. A legal affidavit to be submitted to this effect by the proponent.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
d)	Traffic density study to be done through a Govt. Institution.	Traffic study will be conducted after commissioning of plant.	Specific conditions to be stipulated in Environmental Clearance that the proponent need to submit the study report within 2 months of commercial operation of the plant and mitigation measures as and if necessary thereof to SEIAA. A legal affidavit to be submitted to this effect by the proponent.

20. The SEAC in its meeting held on 12.08.2020, decided to take decision on the proposal after receipt of certain information/documents from the proponent. The project 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																																																														
a)	This is not clear from the enclosed letter of the proponent dated 17.07.2020 (Annexure - I) that the land proposed for the Cement Plant is coming within the land area diverted. Certificate from the concerned DFO about the status of the land (forest / non-forest) is to be submitted.	<p>Certificate from the concerned DFO, Cuttack Forest Division vide letter no: 1887/5F dated 10.03.2021 has shown land details</p> <table border="1"> <thead> <tr> <th>Sl.no</th> <th>Khata No.</th> <th>Plot No.</th> <th>Total Area</th> <th>Allotted area in Acre</th> <th>Kissam Sabik</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td rowspan="4">419</td> <td>860</td> <td>83.800</td> <td>12.700</td> <td>Sal Jungle</td> <td rowspan="4">Diverted in favour of IDCO under FC Act.</td> </tr> <tr> <td>2</td> <td>858</td> <td>189.400</td> <td>49.980</td> <td>Sal Jungle</td> </tr> <tr> <td>3</td> <td>859</td> <td>83.100</td> <td>0.800</td> <td>Jhati Jungle</td> </tr> <tr> <td>4</td> <td>844</td> <td>183.800</td> <td>13.00</td> <td>Jhati Jungle</td> </tr> <tr> <td>5</td> <td>420</td> <td>845</td> <td>3.780</td> <td>1.020</td> <td>Rasta</td> <td></td> </tr> <tr> <td>6</td> <td>419/33</td> <td>860/337</td> <td>8.080</td> <td>3.880</td> <td>Sal Jungle</td> <td rowspan="3">The land has not been diverted under FC act.</td> </tr> <tr> <td>7</td> <td rowspan="2">419/13</td> <td>844/3401</td> <td>3.000</td> <td>0.720</td> <td>Sal Jungle</td> </tr> <tr> <td>8</td> <td>844/3402</td> <td>6.260</td> <td>0.900</td> <td>Sal Jungle</td> </tr> </tbody> </table> <p>They have intimated that land measuring 5.5 acres area coming under Sal jungle in Sabik kissam. Further, they have intimated that they will leave away 5.5 acres of Sal Jungle from project activities.</p> <p>The proponent has also intimated that they will not disturb or utilize 5.5 acres of leave away Sal Jungle land for project and other purpose.</p> <p><u>Land use pattern for the Project:</u></p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Land use purpose</th> <th>Area in Ac. Acres</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sl.no	Khata No.	Plot No.	Total Area	Allotted area in Acre	Kissam Sabik	Remarks	1	419	860	83.800	12.700	Sal Jungle	Diverted in favour of IDCO under FC Act.	2	858	189.400	49.980	Sal Jungle	3	859	83.100	0.800	Jhati Jungle	4	844	183.800	13.00	Jhati Jungle	5	420	845	3.780	1.020	Rasta		6	419/33	860/337	8.080	3.880	Sal Jungle	The land has not been diverted under FC act.	7	419/13	844/3401	3.000	0.720	Sal Jungle	8	844/3402	6.260	0.900	Sal Jungle	Sl. No.	Land use purpose	Area in Ac. Acres	Description					<p>i) Letter from IDCO that the proponent (Chetnad) has surrendered 5.5 acres of Sal Jungle which IDCO had allotted to them.</p> <p>ii) Details of the infrastructures of the plant shown in the above 5.5 acres of Jungle land and relocation of the same in the rest of the land vis-à-vis the original layout.</p>
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		1.	PLANT AND MACHINERY AREA i) Raw material storage Yard ii) Cement grinding and Silos iii) Packing Plant iv) Electrical yard	10.00 16.00 7.00 2.50 12.00 30 77.50	Silo for clinker storage and Covered shed for slag & gypsum Mill for grinding and Silo-3 Nos for storing cement 3 Nos. of packing plants and 8 Nos. of lorry loading machines and 14 Nos. of wagon loading machines Electrical installations Space required for parking approximately 100 trucks Approximately 1/3rd of the total plant area should be provided for green belt development,	
b)	A legal affidavit that Inversion study to be done by an expert agency of national repute preferably Govt. agency and the study report shall be submitted within 2 months of commercial operation of the plant and mitigation measures as and if necessary thereof to SEIAA.	Legal Affidavit has been furnished.			Specific Conditions to be stipulated in Environmental Clearance.	
c)	A legal affidavit that Traffic density study to be done through a Govt. Institution and the study report shall be	Legal Affidavit has been furnished.			Specific Conditions to be stipulated in Environmental Clearance.	

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	2 months of commercial operation of the plant and mitigation measures as and if necessary thereof to SEIAA		

21. The SEAC in its meeting held on 09.04.2021, decided to take decision on the proposal after receipt of the following from the proponent followed by a site visit by SEAC Sub Committee. The project 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																				
a)	Letter from IDCO that the proponent (Chetnad) has surrendered 5.5 acres of Sal Jungle which IDCO had allotted to them	Letter from IDCO vide Lt no. IDCO Lr No. IDCO-LAE-7273/2017-14919 dated 04.09.2021	Copy submitted																				
b)	Details of the infrastructures of the plant shown in the above 5.5 acres of Jungle land and relocation of the same in the rest of the land vis-à-vis the original layout	Revised layout by omitting 5.5 acres of land as per the land scheduled tabled below: <table border="1" data-bbox="651 1041 1086 1301"> <thead> <tr> <th>Sl No.</th> <th>Khata No.</th> <th>Plot No.</th> <th>Area (In Acres)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>419/33</td> <td>3376(P)</td> <td>3.88</td> </tr> <tr> <td>2.</td> <td>419/13</td> <td>844/3401 (P)</td> <td>0.72</td> </tr> <tr> <td>3.</td> <td>419/13</td> <td>844/3402 (P)</td> <td>0.90</td> </tr> <tr> <td colspan="3">Total</td> <td>5.50</td> </tr> </tbody> </table>	Sl No.	Khata No.	Plot No.	Area (In Acres)	1.	419/33	3376(P)	3.88	2.	419/13	844/3401 (P)	0.72	3.	419/13	844/3402 (P)	0.90	Total			5.50	Layout plan submitted.
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Total			5.50																				

After detailed discussion, the SEAC decided to take decision on the proposal after a site visit by SEAC Sub Committee.


SECRETARY, SEAC

Approved

CHAIRMAN, SEAC

SPECIFIC CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE OF INDIVIDUAL MINING LEASE OF ANJIRA STONE QUARRY BSQ NO-1 OVER AREA 45.50 ACRES OR 18.41 HA. AT VILLAGE- ANJIRA, TAHASIL - DHARMASALA, DISTRICT- JAJPUR - SUBMITTED UNDER CLUSTER - FINAL EIA/EMP REPORT OF SRI TAPAN KUMAR NAYAK - EC.

1. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Odisha, Hon'ble NGT and any other Court of Law, if any, as may be applicable to the quarry lease.
2. The Environmental Clearance is subject to obtaining requisite NBWL Clearance, if any, from the Standing Committee of National Board for Wildlife for Mining project.
3. The lessee shall implement the Pollution Control Measures and safeguards as proposed in the approved EIA/Environment Management Plan (EMP) in the cluster approach.
4. The lessee shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities.
5. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages. The lessee 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 density.
6. The lessee shall obtain NOC from concerned Block Development Officer (BDO) for usage of haulage road/Panchayat Road.
7. The lessee shall ensure safety of human life and livestock from accidents in case village / any habitation is very nearby the mining lease area.
8. The lessee shall ensure the safeguard and wellbeing of villagers and school, regular health monitoring of all residents in the area and the compliance Report shall be submitted to the regional office of the MOEF & CC and SEIAA, Odisha.
9. The lessee/concerned Tahasildar shall follow the detailed procedure for De-reservation of Gochar kissam land if involve in the lease area before going for mining activity.
10. Under no circumstances, the lessee shall use wagon drilling blasting during mining activity.
11. The lessee shall not store and use blasting materials/explosives inside the lease area without obtaining license/permission/authorization from competent Authority as per Indian Explosives Rules, 1983.

12. The lessee shall obtain NOC from CGWA and permission from WR department, Govt. Of Odisha for use of ground water.
13. The lessee shall complete the rejuvenation of ponds if any within lease area on priority basis after obtaining Environment Clearance.
14. No mining activities shall be allowed in forest area, if any, for which the Forest Clearance is not available.
15. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Odisha.
16. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
17. Mining shall be carried out as per the provisions outlined in the approved mining plan.
18. Protection of vegetation in the surrounding areas, and proper storage of solid waste, subgrade ore and their use have to be given priority during mining operation.
19. The illumination and sound at night at the lease area disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. Project Proponents must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.
20. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
21. The soil to be generated during mining activity shall be stacked in the earmarked temporary soil stack and shall be utilized for the plantation purpose to be undertaken around the respective hill/patch and adjacent to haul roads of the same in lease area.
22. The abandoned mine pit shall be converted to rain water storage tank and the rain water stored in pit shall be utilized for plantation as well as dust suppression.
23. Total Plantation shall be carried out within 2-3 years of mining activity and maintenance shall be continued in remaining years. Trees present in mining area shall be uprooted & transplanted in safety zone.
24. All the lease holders in a cluster to join hand through a registered MOU on cluster to cluster basis for laying of permanent pipeline by the side (one side) of the main haulage road with half-moon automatic sprinklers system for suppression of dust during movement of vehicles.
25. All the lease holders in a cluster should join hand for grading of the main haulage road to maintain the gradient facilitating smooth movement of vehicles.
26. The same cluster approach to be taken for development of green belt all around the cluster area baring catch dams for flow of runoff water during rainy season. These activities may be coordinated by the leadership in the cluster leases or RQP for the cluster with help from Revenue Inspector of the area for better results.

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF PROPOSED INCOME TAX RESIDENTIAL HOUSING COMPLEX OF INCOME TAX AUTHORITY LOCATED AT GADAKANA, BHUBANESWAR, DIST-KHURDA WITH TOTAL BUILT UP AREA- 20548 SQ.MT OF SR. SAROJ KUMAR MOHAPATRA – EC.

PART A - SPECIFIC CONDITIONS:

1. Consent to Establish / Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc.
3. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
4. The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM NO.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.
5. The “Kisam” of the land is “Patita” and hence, needs to be converted to “Gharabari” before starting the construction of the project.
6. Provision for electric point at each and every parking location for e- vehicle charging etc. shall be provided.
7. The Sub-Committee of SEAC will visit the site within 6 months from the date of issue of Environmental Clearance to verify the progress of the project as well as conditions stipulated in Environmental Clearance. However, either during the visit of the SEAC Sub-committee and/or at any time, if it is noticed that stipulated conditions on which EC is granted is not in place or found otherwise, steps will be taken for revocation of EC granted.

TOPOGRAPHY AND NATURAL DRAINAGE

8. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other Sustainable Urban Drainage Systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

WATER REQUIREMENT, CONSERVATION, RAIN WATER HARVESTING, AND GROUND WATER RECHARGE

9. As proposed, fresh water requirement from Ground water / PHED water supply shall not exceed 95 KLD.
10. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the

balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

11. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA, Odisha along with six monthly Monitoring reports.
12. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
13. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
14. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
15. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
16. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed adequate nos. of rain water harvesting recharge pits shall be provided.
17. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawal of water.

SOLID WASTE MANAGEMENT

18. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
19. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
20. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.
21. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

22. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.

SEWAGE TREATMENT PLANT

23. Sewage shall be treated in STP of capacity 100 KLD. The treated effluent from STP shall be recycled/re-used for flushing, gardening and washing purpose. As an interim arrangement, the proponent shall provide a safety tank and soak pit of adequate capacity for storage of 7 KLD of surplus treated STP water. The safety tank will be evacuated intermittently by tankers for disposal in BMC sewerage line elsewhere. This arrangement will continue till the JICA project of laying sewerage line and common STP project is made operational in that area.
24. A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point.
25. No sewage or untreated effluent water would be discharged through storm water drains.
26. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
27. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

ENERGY

28. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
29. Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
30. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.

31. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
32. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
33. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.

AIR QUALITY AND NOISE

34. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
35. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
36. **Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.**
37. DG sets shall be installed at the suitable places after due consideration of predominant wind direction to avoid air pollution from entering the dwelling house of the colony.
38. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

39. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.
40. Ambient noise levels shall conform to residential standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

GREEN COVER

41. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m² of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed approx. 4024.53 sq.m (20% of the plot area) shall be provided for green area development.

TOP SOIL PRESERVATION AND REUSE

42. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

TRANSPORT

43. A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - Traffic calming measures
 - Proper design of entry and exit points.
 - Parking norms as per local regulation
44. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project.
45. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
46. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

ENVIRONMENT MANAGEMENT PLAN

47. An Environmental Management Plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.

OTHERS

48. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
49. A First Aid Room shall be provided in the project both during construction and operations of the project.
50. The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
51. As per the MoEF&CC, Govt. of India Office Memorandum F.No.22-65/2017-IA.III dated 1st May 2018, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. As per para 6(II) of the said O.M. appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

PART B – GENERAL CONDITIONS

1. A copy of the Environmental Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
2. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to the SEIAA, Odisha and MoEF&CC, Govt. of India and its concerned Regional Office.

3. Officials from the Regional Office of MoEF&CC, Bhubaneswar who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.
4. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, Odisha.
5. The SEIAA, Odisha reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
6. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
7. These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
8. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the SEIAA, Odisha. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of MoEF&CC, Bhubaneswar.
9. Any appeal against this 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.
10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
11. The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
12. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by E-mail.

REPORT OF THE SITE VISIT OF THE SUB-COMMITTEE OF SEAC TO THE PROJECT SITE OF M/S ALTRADE CONSTRUCTION PVT. LTD. AT GHATIKIA, BHUBANESWAR ON 21.12.2019

The site visit was undertaken by the following members:

1. Sri. B.P. Singh
2. Dr. D. Swain
3. Prof. (Dr.) B.K. Satapathy
4. Sri. J.K. Mahapatra

1.00 During the site visit, the project proponent showed the location of the proposed another 250 mm dia sewer line, about 320 meter distance (as stated by OWSSB) from the proposed apartment premises to which they intend to discharge 51 KLD treated waste water from STP (as per water balance).

In this context, the proponent is required to submit the consent by the Sewerage Board on the following:

- (i) They will complete the proposed above 250 mm dia sewer line within a maximum period of 3 years to synchronise the completion of the apartment project and will also allow and take sewage load of the proposed apartment.
- (ii) If the Sewage Board give consent as stated above at (i), then the project proponent is required to submit the relevant land document / land title / lease / "Right to use" document as necessary in their favour for the land required to lay the pipe line / construct drainage connecting the discharge point of treated waste water of STP of the apartment and the proposed 250 mm dia Sewer line at a distance of about 320 meter for the proposed apartment premises.
- (iii) Drainage drawing / contours / design for the above purpose.
- (iv) Due to higher gradient of the proposed sewer line, detail pumping arrangement with explanation is also required.

2.00 The project proponent showed a storm water drain (as that a defined contour) falling in no. 9 drain and they want to discharge their treated waste water to it. This distance may be around 2 km.(an estimate)

In this situation, the project proponent is required to submit:

- (i) Drainage Plan / design and drawing for the same connecting their apartment premises till no. 9 drain of BMC. In future the proponent may explore connecting it to the sewage line (under construction) after taking due permission from the authority.

(ii) Ownership of the land for the purpose in favour of the proponent either in shape of / through purchase / lease / "Right to use". The entire land appears to be private land.

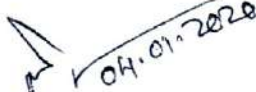
3.00 BMC / PHED water supply was found to be available nearby. So, the project proponent is advised to take supply of domestic water as required from this source and do away with ground water through Bore Well.


However, subject to 'NOC' from CGWA and permission from Water Resources Department, Govt. of Odisha for use of ground water, the proponent may be allowed to use of one bore well (limiting to maximum 25% of the total demand) as a standby source and dispense use with their proposal of two bore wells.

4.00 The project proponent is required to submit the test report of water sample of near by ground water source and PHED / BMC water supply to the Committee to take a decision as to the necessity of Water Treatment Plant for the project to ensure quality water supply to the inhabitants.

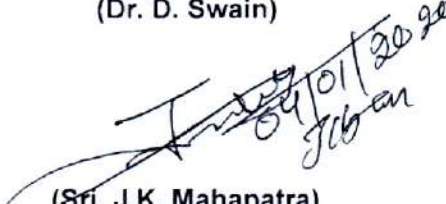
5.00 The number of plants in green belt shall be increased so that STP waste water will be reduced.

Besides other compliances as necessary, SEAC will take a decision after receipt of the above documents / informations as observed above by the Sub-Committee.


(Sri. B.P. Singh)


(Dr. D. Swain)


Prof. (Dr.) B.K. Satapathy


(Sri. J.K. Mahapatra)

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF B+G+6 MULTISTORIED RESIDENTIAL APARTMENT BUILDING LOCATED AT GHATIKA, DIST - BHUBANESWAR, STATE-ODISHA WITH TOTAL BUILT UP AREA – 24273.99 SQM OF M/S. ALTRADE CONSTRUCTION PVT LTD (EC).

PART A - SPECIFIC CONDITIONS:

1. Consent to Establish / Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc.
3. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
4. The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM NO.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.
5. Provision for electric point at each and every parking location for e- vehicle charging etc. shall be provided.

TOPOGRAPHY AND NATURAL DRAINAGE

6. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other Sustainable Urban Drainage Systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

WATER REQUIREMENT, CONSERVATION, RAIN WATER HARVESTING, AND GROUND WATER RECHARGE

7. As proposed, fresh water requirement from Ground water / PHED water supply shall not exceed 62 KLD.
8. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
9. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA, Odisha along with six monthly Monitoring reports.
10. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and

bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.

11. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
12. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
13. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
14. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 10 (ten) nos. of rain water harvesting recharge pits shall be provided.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawal of water.

SOLID WASTE MANAGEMENT

16. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
17. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
18. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.
19. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
20. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.

SEWAGE TREATMENT PLANT

21. Sewage shall be treated in STP of capacity 1080 KLD. The treated effluent from STP shall be recycled/re-used for flushing, gardening and washing purpose. As proposed, the proponent shall provide safety tank and soak pit of adequate capacity for storage of surplus treated STP water. The septic tank will be evacuated intermittently by

tankers for disposal in BMC sewerage line elsewhere. This arrangement will continue till the laying of sewerage line of the upcoming adjacent project road side drain is completed.

22. A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point.
23. No sewage or untreated effluent water would be discharged through storm water drains.
24. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
25. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

ENERGY

26. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
27. Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
28. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.
29. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
30. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks,

Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.

31. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.

AIR QUALITY AND NOISE

32. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
33. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
34. **Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.**
35. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
36. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.
37. Ambient noise levels shall conform to residential standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

GREEN COVER

38. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m² of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not

be used for landscaping. As proposed approx. 1717.19 sqm (23.57 % of the total area) shall be provided for green area development.

TOP SOIL PRESERVATION AND REUSE

39. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

TRANSPORT

40. A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.

- Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
- Traffic calming measures
- Proper design of entry and exit points.
- Parking norms as per local regulation

41. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project.

42. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

43. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

ENVIRONMENT MANAGEMENT PLAN

44. An Environmental Management Plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.

OTHERS

45. Provisions shall be made for the housing of construction labour within the site with all

necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

46. A First Aid Room shall be provided in the project both during construction and operations of the project.
47. The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
48. As per the MoEF&CC, Govt. of India Office Memorandum F.No.22-65/2017-IA.III dated 1st May 2018, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. As per para 6(II) of the said O.M. appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

PART B – GENERAL CONDITIONS

1. A copy of the Environmental Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
2. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to the SEIAA, Odisha and MoEF&CC, Govt. of India and its concerned Regional Office.
3. Officials from the Regional Office of MoEF&CC, Bhubaneswar who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.
4. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, Odisha.
5. The SEIAA, Odisha reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
6. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

7. These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
8. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the SEIAA, Odisha. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of MoEF&CC, Bhubaneswar.
9. Any appeal against this 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.
10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
11. The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
12. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by E-mail.

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR M/S TAPAN Z-ESTATE PVT. LTD. FOR PROPOSED HIGH RISE RESIDENTIAL APARTMENTS LOCATED AT VILLAGE - AMBAPUA, TAHASIL - BERHAMPUR, DIST- GANJAM OF SRI SATYA JYOTI MOHANTY (MD) WITH TOTAL BUILT UP AREA 30594.20 SQM. – EC.

PART A - SPECIFIC CONDITIONS:

1. Consent to Establish / Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc.
3. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
4. The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM NO.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.
5. Provision for electric point at each and every parking location for e- vehicle charging etc. shall be provided.
6. The Sub-Committee of SEAC will visit the site within 6 months from the date of issue of Environmental Clearance to verify the progress of the project as well as conditions stipulated in Environmental Clearance. However, either during the visit of the SEAC Sub-committee and/or at any time, if it is noticed that stipulated conditions on which EC is granted is not in place or found otherwise, steps will be taken for revocation of EC granted.

TOPOGRAPHY AND NATURAL DRAINAGE

7. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other Sustainable Urban Drainage Systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
8. NOC from drainage department for discharge of treated water to readymade municipality drain shall be obtained.

WATER REQUIREMENT, CONSERVATION, RAIN WATER HARVESTING, AND GROUND WATER RECHARGE

9. As proposed, fresh water requirement from Ground water / PHED water supply shall not exceed 85 KLD.
10. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already

committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

11. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA, Odisha along with six monthly Monitoring reports.
12. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
13. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
14. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
15. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
16. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 19 (nineteen) nos. of rain water harvesting recharge pits shall be provided.
17. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawal of water.

SOLID WASTE MANAGEMENT

18. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
19. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
20. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.
21. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

22. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.

SEWAGE TREATMENT PLANT

23. Sewage shall be treated in STP of capacity 120 KLD. The treated effluent from STP shall be recycled/re-used for flushing, gardening and washing purpose. Surplus treated waste water shall be discharged to the drain provided by BeMC for this project.
24. A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point.
25. No sewage or untreated effluent water would be discharged through storm water drains.
26. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
27. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

ENERGY

28. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
29. Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
30. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 2-5% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.
31. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever

is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

32. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
33. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.

AIR QUALITY AND NOISE

34. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
35. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
36. **Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.**
37. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
38. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.
39. Ambient noise levels shall conform to residential standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

GREEN COVER

40. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m² of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed approx. 1740.14 sqm which is 20.0 % of the plot area shall be provided for green area development.

TOP SOIL PRESERVATION AND REUSE

41. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

TRANSPORT

42. A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
- Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - Traffic calming measures
 - Proper design of entry and exit points.
 - Parking norms as per local regulation
43. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project.
44. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
45. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

ENVIRONMENT MANAGEMENT PLAN

46. An Environmental Management Plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste

management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.

OTHERS

47. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
48. A First Aid Room shall be provided in the project both during construction and operations of the project.
49. The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
50. As per the MoEF&CC, Govt. of India Office Memorandum F.No.22-65/2017-IA.III dated 1st May 2018, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. As per para 6(II) of the said O.M. appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

PART B – GENERAL CONDITIONS

1. A copy of the Environmental Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
2. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to the SEIAA, Odisha and MoEF&CC, Govt. of India and its concerned Regional Office.
3. Officials from the Regional Office of MoEF&CC, Bhubaneswar who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.
4. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, Odisha.
5. The SEIAA, Odisha reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act,

1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

6. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
7. These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
8. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the SEIAA, Odisha. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of MoEF&CC, Bhubaneswar.
9. Any appeal against this 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.
10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
11. The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
12. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by E-mail.

ANNEXURE-E

TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT FOR PROPOSED EXPANSION OF RESIDENTIAL CUM COMMERCIAL COMPLEX 'MANI TRIBHUVAN' (FORMERLY KNOWN AS "MANI TIRUMALA") AT MOUZA-KALARAHANGA, PS CHANDRASEKHARPUR, NANDAN KANAN ROAD, DIST- KHORDHA OVER TOTAL BUILTUP AREA OF 1,46,550.86M² (EXISTING: 76050.80 + PROPOSED EXPANSION: 70500.06 M²) – SUBMITTED UNDER VIOLATION CASE. (TOR).

1. Project description, its importance and the benefits,
2. Project site details (location, toposheet of the study area of 10 km, coordinates, google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage),
3. Land use as per the approved Master Plan of the area, Permission/approvals required from the land owning agencies, Development Authorities, Local Body, Water Supply & Sewerage Board, etc,
4. Land acquisition status, R&R details,
5. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 km - Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986,
6. Baseline environmental study for ambient air (PM₁₀, PM_{2.5}, SO₂, NO_x & CO), water (both surface and ground), noise and soil for one month (except monsoon period) as per MoEF&CC/CPCB guidelines at minimum 5 locations in the study area of 10 km,
7. Details on flora and fauna and socio-economic aspects in the study area
8. Likely impact of the project on the environmental parameters (ambient air, surface and ground water, land, flora and fauna and socio-economic, etc),
9. Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc,
10. Waste water management (treatment, reuse and disposal) for the project and also the study area,
11. Management of solid waste and the construction & demolition waste for the project vis-a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016,
12. Energy efficient measures (LED lights, solar power, etc.) during construction as well as during operational phase of the project,

Environmental Scientist, SEAC

13. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
14. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
15. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
16. **The prescribed TOR would be valid for a period of four years for submission of the EIA/EMP report.**

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF (LB+UB+S+10) HOTEL-CUM-MULTIPLEX BUILDING PROJECT AT MOUZA – CHANDRASEKHARPUR, BHUBANESWAR OF M/S RISK SOFTWARE SOLUTION PVT. LTD. WITH TOTAL BUILT UP AREA 35,191.96 M² (EC).

PART A - SPECIFIC CONDITIONS:

1. Consent to Establish / Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc.
3. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
4. The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM NO.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.
5. Provision for electric point at each and every parking location for e- vehicle charging etc. shall be provided.
6. The proponent shall approve the building plan from concerned authority before going for construction activity.
7. The proponent shall obtain Wildlife Clearance before going for construction activity if the project will be located within Eco-Sensitive Zone of Nandan Kanan Sanctuary.

TOPOGRAPHY AND NATURAL DRAINAGE

8. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other Sustainable Urban Drainage Systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

WATER REQUIREMENT, CONSERVATION, RAIN WATER HARVESTING, AND GROUND WATER RECHARGE

9. As proposed, fresh water requirement from Ground water / PHED water supply shall not exceed 321 KLD.
10. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
11. The quantity of fresh water usage, water recycling and rainwater harvesting shall be

measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA, Odisha along with six monthly Monitoring reports.

12. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
13. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
14. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
15. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
16. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed 02 (two) nos. of rain water harvesting recharge pits shall be provided.
17. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering. The proponent shall also obtain permission from Water Resources Department, Govt. of Odisha for drawal of water.

SOLID WASTE MANAGEMENT

18. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
19. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
20. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.
21. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
22. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.

SEWAGE TREATMENT PLANT

23. Sewage shall be treated in STP of capacity 200 KLD. The treated effluent from STP shall be recycled/re-used for flushing, gardening and washing purpose. The proponent shall obtain permission from the concerned Authorities to discharge the treated waste water through the nearby existing drain to the final location of discharge i.e. the Competent Authority of the drain & the final discharge point as well.
24. A certificate from the competent authority shall be obtained for discharging treated effluent/ untreated effluents into the public sewer/ disposal/drainage systems along with the final disposal point.
25. No sewage or untreated effluent water would be discharged through storm water drains.
26. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Odisha before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
27. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

ENERGY

28. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
29. Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
30. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher. Follow super ECBC requirement of ECBC 2017 and provide compliance report.
31. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
32. Use of environment friendly materials in bricks, blocks and other construction

materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.

33. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.

AIR QUALITY AND NOISE

34. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
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40. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m² of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should

include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed approx. 1619.253 sqm which is 20 % of the plot area shall be provided for green area development.

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