PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE, ODISHA HELD ON 19TH NOVEMBER, 2024

The SEAC meeting held on 19th November, 2024 at 04:00 PM through Video Conferencing (VC) in Google Meet under the Chairmanship of Sri Sashi Paul. The following members were present in the meeting.

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

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 FOR ENVIRONMENTAL CLEARANCE OF M/S ORIENTAL TRIMEX LTD. FOR POTERU DECORATIVE STONE MINE OVER AN AREA OF 4.961 HECTARES IN THE VILLAGE POTERU OF MALKANGIRI DISTRICT OF SRI ANIRUDH MALLICK - EC

1. This proposal is for Environmental Clearance for M/s Oriental Trimex Ltd. for Poteru Decorative Stone Mine over an area of 4.961 hectares in the village Poteru of Malkangiri district of Sri Anirudh Mallick.
2. **Category:** As per the EIA Notification S.O. 1533, dated 14th September 2006 and subsequent amendments, this proposed project falls under Category B (B2 <5.0 Ha).
3. Conditional Mining Lease (LOI) granted by Department of Steel and Mines, Govt. of Odisha letter no. SM-MC2-MC-0007-2021/12009 dated 23.12.2022.
4. The mining plan was approved by Directorate of Mines, Govt. of Odisha vide letter No. MGXXIV(b) – 11 /2023/14769/DoMG. on dated 12.11.2023 valid upto 5 years from the date of lease deed execution.
5. **Location and connectivity**: The project site is located at Plot No – 2377,Village – Poteru, Tahasil – Motu, Malkangiri ,Odisha, Geo – coordinate - Latitude – L-170 56'33.4" to L-170 56'43.8" Longitude - N-810 40'03.01" to N-810 40'10.8",Toposheet No. – E44P/9,Kisam – Patharabani, Nearest S.H MV – 72 State highway Connecting Koraput – Kalimela - Motu at

a distance of 5 kms, Nearest N.H MV – 72 National Highway Connecting Koraput – Kalimela – Motu at a distance of 5 kms, Manyamakonda canal is 300 mts away from the M.L. area.

6. **Total reserves and production**: As estimated, the mineable reserve of the proposed project is 1,37,040 cum. The average rate of production of decorative stone during the proposed plan period is 2520 cum per annum.

7. **Land use pattern**:

Sl. No.	Type of land use	Net area considered for financial assurance.	At conceptual stage
1	Area of excavation	0.477	1.874
2	ROM stock yard	0.331	0.331
3	Waste dump	0.184	0.184
4	Stock yard blocks	0.290	0.290
5	Stock yard presently non-salable	0.155	0.155
6	Processing Yard	0.152	0.152
7	Parking	0.122	0.122
8	Roads	0.155	0.155
8	Infrastructure, (first aid, rest shelter Etc.)	0.250	0.250
9	Workshop	0.037	0.037
10	Safety zone	0.709	0.709
11	Total area utilized	2.740	4.137
12	Backfilled /reclaimed area	0.000	3.023
13	Un-utilized area	2.221	3.847
	Total Area	4.961	4.961

8. **Method of Mining**: Mining is done by semi mechanized with 6m x 9m bench pattern without blasting shall be adopted with an average production capacity of 2520 cum per annum, total production in 5 years will be 12600 cum. Proposed mining depth as per approved mining plan, will be from the RL 183 m to RL 161 m. The equipment's to be used are excavator, surface drill, compressor, jack hammer & dumper for transportation. Blocks shall be transferred to polishing units by trailers/trucks.

9. **Waste generation and management**: The generated waste will be 17,920 cum during 5 years. It shall be accommodated in the North Eastern side Part of Leasehold area over 0.184 ha. with a height of 7m.

10. **Baseline Study Monitoring:** The baseline study was carried out on 15 Dec, 2023 to 15 Jan, 2024.

AAQ parameters at 8 locations (min. & Max.)	PM_{10}= 30.45 to 49.66 µg/m^3 $PM_{2.5}$= 20.22 to 39.83 µg/m^3 SO_2= 4.0 µg/m^3 to 6.8 µg/m^3 NOx= 9.0 µg/m^3 to 18.6 µg/m^3
Ground Water quality at 8	pH: 6.86 to 7.14, TDS: 188-212 mg/l, Total Hardness: 42.65 to 62.12 mg/l, Chlorides: 19.48 to 24.12 mg/l, Fluoride: 0.24 to 0.56 mg/l, Nitrate: 0.22 to 0.24

locations	mg/l. Alkalinity ranges from 42.87mg/l (GW-6) to 56.42mg/l (GW-1).
Surface water quality at 2 locations	pH: 7.08 to 7.14, TDS: 328-296mg/l, Chlorine: 9.12 12.62mg/l and BOD: 11.24 10.46mg/l.
Soil quality at 2 locations	pH varies between 6.2 to 6.8, Porosity varies between 36.3 to 37.1, Nitrogen varies between 2142 - 2312mg/Kg, Phosphorous varies between 326-418 mg/Kg and Potassium varies between 60.2-70.8mg/Kg. Organic Carbon Content varies between 0.3-0.4mg/Kg. Water Holding Capacity(%) 41.3 to 37.8.
Noise levels Leq (Day & Night) at 2 locations	Ambient noise reaches 32.5 to 46.5 dB (A) during daytime and 25.3 to 32.4 dB (A) during night time.

11. **Water requirement**: The total water requirement of the plant is estimated at about 5 KL per day, which shall be sourced from nearby tube wells and nearby ponds. Water will be sourced from the Tube well for drinking and dug well.

12. **Power requirement**: Diesel requirement of 6000litters/month for operation of mining equipment and DG sets for power generation of 250KVA.

13. **Greenbelt**: A green belt along the periphery of the ultimate quarry, over the dump and along the road side will be developed to arrest the air borne particles. An area of 0.709 hectares is proposed for plantation in which a total number of 1772 no's of trees shall be planted in a period of 5 year with annual target of 355 nos.

14. **Manpower requirement**: A total of 20 workers will be employed in the proposed mine.

15. **Project cost**: The approximate cost of the project comes around 5 Cr. The EMP budget incurs 0.5 Cr in the planning period of 5 years.

16. **Environment Consultant**: The Environment consultant **M/s Envomin Consultant Private Limited** along with the proponent made a presentation on the proposal before the Committee.

17. The SEAC in its meeting held on dated **17-05-2024** decided to take decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Submit the RL of the approach road, bottom RL of the mine before start of mining and after post mining and RL of the nearby surrounding areas close to mine.	The Present RL of the approach road is 140 m. Hilly mining method shall be adopted for mining from the existing RL that is 183 mRL with a reducing benching pattern (top to bottom), so the post- mining RL will be 161 m. RL of the nearby surrounding areas close to mine boundary is 140 mRL. The area exhibit a small hillock.	-
2.	A brief note on tentative waste management plan for the project.	As per the geological study the dump area consists of fractured Granite gneiss not suitable for decorative stone. During the plan period the barrenness of the dump area will be proved by putting one borehole in the proposed waste dump area. During the conceptual period the generated presently non-salable will be tried to be utilized by	Complied

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		making tiles of usable size as per the market requirement. Waste generated will be dumped separately and will be utilized for construction of haul road and other civil works inside the lease area. The total volume of excavation assessed to be 547600 Cum. out of which total decorative stone assessed to be 175440 Cum up to possible limit. So the balance quantity 372160 Cum. will be the waste rock. From the nature of the deposit it seems that maximum % of the waste materials will be of considerable hardness which can be used as construction material. So attempts will be made to dispose the waste materials for civil construction purpose and rest of the softer materials will be spreaded over the mined out area to make it suitable for plantation. As the ultimate quarry floor is above the general ground level of the surrounding area, there is no necessity of back filling the area. As such the area can be developed to usable ground by spreading waste materials which will facilitate development of plantation growth in the area. Hence at the end of the mining there will be no dump in the conceptual period.	
3.	Submit a revised DLC certificate from DFO for lease area.	Initially the application for mining lease or P.L. over an area of 13.65ha in Village Poteru Motu Tahsil in Malkangiri district was applied to the in favour of Orient Trimex Ltd. Subsequently the mining lease was granted over an area of 4.961Ha (Plot No. 2377/Part of Khata No 213) by the Department of steel & mines. at the time of grant of M.L. The said area 4.961Ha is not coming under DLC forest. Hence not recorded in the DLC report. (Copies of the DFO office letter dated 16.08,2024 and dated 08.08.2006 are attached or your reference.)	Project Proponent has submitted the DLC certificate certified by DFO, Malkangiri Forest Division dtd 08.08.2006 and 16.08.2024 and complied.
4.	Submit the distance from the nearest sanctuary and its details.	The nearest sanctuary is Karlapat Wildlife Sanctuary, which is situated at a distance of 306Km away from the mining lease area.	----

Considering the information furnished and the presentation made by the consultant, **M/s Envomin Consultant Private Limited,** along with the project proponent, the SEAC recommended for grant of Environmental Clearance upto lease period with stipulated conditions as per **Annexure – A and following additional conditions;**

i) Haulage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.

ii) The project proponent shall maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the decorative stone quarry for ensuring that working personnel are not affected by silicosis.

iii) The project proponent shall undertake re-grassing of the area or any other area which may have been disturbed due to their mining activities.

iv) The site has no approach road from the mine site till the revenue road Thus, required permission for approach road need to acquire and due procedure to construct the road be followed before commencement of mining.

v) Measures shall be taken to maintain the slopes in stable condition.

vi) Provisions shall be made to store the surface runoff within the mining lease. Garland drains and settling ponds of adequate capacity shall be constructed. No water shall be discharged outside the mining lease without proper treatment.

vii) Adequate measures to be followed for dust suppression, noise control and solid waste management during the mining activities.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. FALCON REAL ESTATE PVT. LTD. FOR EXPANSION OF RESIDENTIAL BUILDING COMPLEX "FALCON TATVA" OVER TOTAL PLOT AREA: 15474.6477SQM WITH TOTAL BUILT UP AREA INCREASE FROM 94209.41 SQM TO 111088.53 SQM AT MOUZA - DUMDUMA, TAHASIL - BHUBANESWAR OF SRI SOUNIK KAJAL KUMAR DASH- EC

1. This proposal is for Environmental Clearance of M/s. Falcon Real Estate Pvt. Ltd for Expansion of Residential Building Complex "Falcon Tatva" over total plot Area: 15474.6477sqm with Total built up area increase from 94209.41 sqm to 111088.53 sqm at Mouza - Dumduma,Tahasil - Bhubaneswar of Sri Sounik Kajal Kumar Dash.
2. **Category**: This project falls under Category "B", Project or Activity 8(a): Building & Construction Projects as per EIA Notification dated 14th Sept, 2006 as its amendments.
3. As per the EIA Notification, 14th September, 2006, the existing and expansion built up area is less than 1,50,000 sqm.
4. **Location and connectivity**: The site is located adjacent to the local landmarks, spark furniture and in front of Cosmopolis Residential apartment. Total land required for this proposed project is 15474.6477 sqm 3.82 Ac. or 1.547 Ha. Kisam of land is Gharabaari. The Proposed Construction of Residential Housing Project 1 Blocks (2B+G+22) residential apartment & One Block of (2B+G+2) Society building over plot no. 499/6204,499/6202, 499/6203, 499/6207, 499/6206,499/4493,499/4454,496/2534,496/6452,496/6453,496/4145,496/6335,497,498,500,501,493/5958.Khata No-432/5085,432/5086,432/4995,32/2465,432/2254,432/5368,432/5408,2618, 432/4870, 432/2128,432/5190,432/5369,432/5370 at Mouza: Dumduma, Tehsil: Bhubaneswar, District: Khurda, Odisha. The project site falls under Topo sheet No.F45T15 of Survey map of India. The project site is well connected to NH-16, adjacent to the project site in NW direction, NH-316 approx. 7.7 km in E direction and SH-13 approx. 12.6 km in SW direction. The nearest railway station is Bhubaneswar Railway Station approx. 8.1 km in NE direction from the project site and Biju Patnaik International Airport is at a distance of approx. 2.4 km in East direction from the project site. The distance & direction of Eco sensitive area is as follows: Ghatikia PF-2.4 km (NW), Chandaka Dampara- Wildlife Sanctuary 3.9 km (N), Bharatapur PF -4 km (N), Mendhashala RF -6.2 km (NW), Dasapur RF- 8.7 km (NW), Ratanapur PF-12.1 Km-(W).

5. The site is coming under Bhubaneswar Municipal Corporation (BMC).

6. **Statutory clearances obtained:**

   - NOC from PHD for water supply and sewerage connection to the proposed residential project vide letter no. 16465 on dated 07/11/2022.
   - Clearance from CGWA in respect of tapping of Ground water vide their NOC NO: CGWA/NOC/INF/ORIG/2022/17417 On Dt. 28.12.2022
   - Revised Application For getting NOC from CGWA :21-4/4468/OR/INF/2022

7. The total plot area is 15474.6477sqm or 3.823 Ac/1.547 Ha. The total Built up Area to be increased from 94209.41 sqm to 111088.53 sqm with Plot Area -16895.90 Sqm. (Possession Area) and NH Road And Drain Affected Area - 1421.25 Sqm.

8. **LULC of project site:**

Land use breakup of net plot area	Area in sqm	% of total plot area
ROOFTOP AREA /GROUND COVERAGE AREA	5256.73	34
Driveway / Paved podium area	3853.23	46
Green area	3094.9	20
Total plot area	15474.6477	100

9. **Area Statement:**

Sl. No.	Parameter of the proposed project		As Per Previous EC (Area in SQM)	Proposed (Area in SQM)
	Plot are involved in proposed project		At Plot No. 499/6204, 499/6202, 499/6203, 499/6207, 499/6206, 501, 499/4493,496/2534,496/6452,496/6453,496/4145,497, 498, 496/6335, 495, 500, 499/4454, Khata No. 432/5085, 432/5086, 432/4870, 432/5190, 476/2,	499/6204,499/6202, 499/6203, 499/6207, 499/6206, 499/4493, 499/4454, 496/2534, 496/6452, 496/6453, 496/4145, 496/6335, 497, 498, 500,501, 493/5958 Khata No-432/5085, 432/5086,432/4995, 432/2465,432/2254,432/5368 ,432/5408,
			432/4995, 432/2254, 432/5370, 432/5369, 432/5368, 463/48, 432/2128, 432/2465, 2618, 432/5408, at Mouza: Dumduma, Tehsil: Bhubaneswar, District: Khurda, Odisha	2618,432/4870,432/2128,432/5190,432/5369,432/5370 at Mouza: Dumduma, Tehsil: Bhubaneswar, District: Khurda, Odisha
i)		**Total Plot Area**	17,248.51	16895.9
	a.	Land affected by road	429.32	1421.25
	b.	Land affected by drain	962.81	

Sl. No.	Parameter of the proposed project		As Per Previous EC (Area in SQM)	Proposed (Area in SQM)
	c.	**Net Plot Area (a-b)**	**15,856.37**	**15474.6477**
ii)		Permissible Ground coverage (@30% of net plot area)	4,756.91	
iii)		Proposed Ground coverage ((a), of net plot area)	4,543.20	5256.737824
iv)		Permissible F.A.R ((a), 6% of net plot area)	95,138.22	
v)		Proposed F.A.R ((a),	65,392.80 (4.12% of net plot area)	83837.30 (5.42% of net plot area))
	a.	Residential	64,028.52	82051.14
	b.	Society area	1,364.28	1786.11
vi)		Non FAR	7,256.11	28921.98(including covered parking)
	a.	Residential	7,240.92	84944.39
	b.	Society area	15.19	978.77
vii)		Basement Area	21,560.50	25,578.00
	a.	Basement level-1	10,987.68	12133.00 (B.U.A) + 574.35 (FAR)
	b.	Basement level- 2	10,572.83	12225.03 (B.U.A) + 645.61 (FAR)
viii)	Total Built up area		94,209.41	111088.53
ix)	Maximum Height of the Building (m) (Till Mumtv level)		58.10 m	Block-1: 71.17 M Block-29.20 m
x)	Landscape area (21.43 % of net plot area)		3,398.26	3,398.26
xi)	Parking (Including Visitors Parking)		19636.49 (2,108.528)	25369.11
xii)			618 ECS	7600.44
xiii)	Basement-1 (Lower)-		9,029.30	11205.29
xiv)	Basement-2 (Upper) parking-		9,802.58	11601.05
xv)	Ground Floor		719.61	1940.03
xvi)	Open parking		85	2562.77
xvii)	Roof top rainwater tank 2 nos.		125 KL +120 KL	
xviii)	No. of Dwelling Units		268	346
	a)	3 BHK	68	4
	b)	3.5 BHK	128	84
	c)	4BHK	68	171
	d)	Pent house	4	83

Sl. No.	Parameter of the proposed project	As Per Previous EC (Area in SQM)	Proposed (Area in SQM)
xix)	Land use breakup of net plot area		
xx)	Rooftop Area /Ground Coverage Area	3477.1	5256.73
xxi)	Road Area		3853.23
xxii)	Driveway / Paved podium area	8747.8	3853.23
xxiii)	Green area	3398.26	3094.9
xxiv)	Unpaved area	233.21	
xxv)	TOTAL PLOT AREA	**15,856.37**	**15474.6477**

10. **Water requirement**: Total water requirement=314 KLD (Drinking + Flushing), fresh water requirement on daily basis =209 KLD and flushing water requirement = 105 KLD. The source of water supply is Ground water /Municipal water supply.

Parameter of the proposed project	As Per Previous EC (Area in SQM)	Proposed (Area in SQM)
Water Requirement	187 KLD(fresh-131+flushing-56)	314 KLD(fresh-209+flushing-105)
Source	Ground water	Ground water
Wastewater Generated	139 KLD	282 KLD
Treated Waste Water Reuse	56 KLD & 69 KLD discharge to nearest drain	254 KLD
STP capacity	170 KL	285 KL

11. **Wastewater details:** Total waste water generated from the residential building is 282 KLD which is treated in STP of Capacity 285 KLD. Treated waste water recovered from STP - 226 KLD, out of which 175 KLD will be recycled within the project. During dry season there will be 50 KLD treated waste water discharged into municipal sewer and 90 KLD will become surplus in monsoon season.

12. **Rainwater harvesting details:** Total 18 nos. of Rainwater harvesting pits will be provided for storage of rain water.

13. **Parking details:** Total parking area provided is 25369.11sqm.

14. **Power Requirement:** Electricity requirement: 5764 KVA and Source of Power is TPCODL, Bhubaneswar. Power Back up source is 4 X 810 KVA = 3,256KVA silent DG Set. Total Solar Power Generation is 300 KW which is 5.0% of total power required in project.

Parameter of the proposed project	As Per Previous EC (Area in SQM)	Proposed (Area in SQM)
Power Requirement	4139 KVA	5765 KVA
Total Connected Load in Kw		5964 KW
Total Demand Load in KVA		5765 KVA
DG Set	2x1250 kva	4X810 KVA

Parameter of the proposed project	As Per Previous EC (Area in SQM)	Proposed (Area in SQM)
Solar Lighting	10.12 %	300 KW (5% of total power consumption -5964 KW

15. **Firefighting Installations:** Fire Fighting will be provided as per NBC Norms.

16. **Solid waste generation:** Solid waste generated and its management is as follows:

Parameter of the proposed project	As Per Previous EC (Area in SQM)	Proposed (Area in SQM)
Solid Waste	1160 kg/day	1166 KG/DAY
Biodegradable	464 KG/DAY	475 KG/DAY
Non-biodegradable	696 KG/DAY	691 KG/DAY

Management:

- Biodegradable waste (619 kg/day) will be treated with OWC (capacity-700 kg/day) and Non- Biodegradable waste through BMC.
- The recyclable material like thermocol, cartoon boxes, Glass, plastic, newspaper waste is given to the rag pickers for recycling.
- The sludge generated from the STP will be directly taken by sludge tank to municipal dump yard.
- Components are being collected in separate bins. The disposal of recyclable and non-recyclable waste and Biomedical waste is being done through the government. Approved agency.

17. **Greenbelt:** The green area 3095 sqm will be developed approx. 20 % of the total plot area. [193 nos. of tree].

18. **Project cost**: The estimated project cost is 472 Cr (Existing-450 Cr+ Expansion-22 Cr) and cost for EMP is capital cost- (Existing-450 Lakh+ Expansion-32 Lakh) 482 Lakh. Annually recurring cost 26.5 Lakh.

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

20. The SEAC in its meeting dated **17-05-2024** recommended the following:

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

i) Justification as to why the proposal will not be considered as violation project as they have applied for Environmental Clearance post-facto.

ii) Detailed layout of the greenbelt.

iii) Comparative statement on all environment parameters for the existing and proposed project with justification.

iv) Half yearly compliance report of the existing Environmental Clearance.

v) Permission from the Chief Drainage Officer, EIDP for drainage water discharge.

vi) Permission from NHAI for laying out of connection to the drain. Also, all other relevant clearances as per revised proposals.

vii) The greenbelt should be increased to a minimum of 20%.

viii) Submit the Soil test Report carried on the proposed land.

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

a) Environmental settings of the project site.

b) To assess the details of the ground coverage for the existing and proposed project.

c) Extent of construction activity and operational status of all the units.

d) Road connectivity to the project site.

e) Drainage network at the site.

f) Greenbelt development in the existing plant.

g) Solid waste management practice of the existing plant.

h) Vacant land available.

i) Any other issues including local issues.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Justification as to why the proposal will not be considered as violation project as they have applied for Environmental Clearance post-facto.	In this regard, we would like to bring to your notice that, the said project was earlier approved and availed environment clearance having four towers of residential apartment. However, in this revised proposal the four towers are jointed together only at the ground level (not in any other top floors) to make it as one block of residential tower. Therefore, the coverage area of the earlier approval is increased from 4543.2 sqmt (28.65%) to the new approval of 5256.73 sqmt (33.97%). Rest all area such as basement floor, typical floor is not changed from its earlier approval and remains as it is. We hereby humbly request you to kindly consider the matter and avail us the environmental clearance for the said project.	-----
2.	Detailed layout of the greenbelt.	The green area 3095 sqm will be developed approx. 20% of the total plot area. As per MoEF & CC, 193 no's of Tree will planted in around the	-----

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		project site of the plot area. The biodiversity in the area will increase due to the proposed green area. Layout plan showing green belt Development area is attached as **Annexure-I.**	
3.	Comparative statement on all environment parameters for the existing and proposed project with justification.	Comparative statement on all environment parameters for the existing and proposed project with justification is attached as **Annexure – II.**	-----
4.	Half yearly compliance report of the existing Environmental Clearance.	Half yearly compliance report of the existing Environmental Clearance is attached as **Annexure-III.**	Half yearly compliance report not submitted. Rather screenshot of application applied has been submitted.
5.	Permission from the Chief Drainage Officer, EIDP for drainage water discharge.	We have got permission from Bhubaneswar Municipality for discharge of storm water. Permission letter is attached as **Annexure-IV.** It is to intimate that the drainage plan showing the recharge pit details, calculation sheet of storm water runoff generation from roof top, land area, paved area & landscape have been checked and found to be adequate for smooth disposal of the storm water into the twenty-four numbers of recharge pits having the dimensions shown in the drainage plan by Superintending Engineer Drainage Division Bhubaneswar Municipal Corporation. He directed that such arrangements should be made that there is no pollution to the aquifer and the surplus rainwater should be diverted into a natural drainage channel called Rainwater Drain No.9 by making a drain covered with RCC. All these arrangements are only meant for disposal of storm water and for no other purpose. The drainage plan and scheme provided by PP is vetted and found correct and are enclosed for submission to the City Planner. Bhubaneswar Municipal Corporation to make it a part of Building Plan Approval to ascertain its implementation at the time of issuing of occupancy Certificate.	Permission from the Chief Drainage Officer, EIDP for drainage water discharge is not submitted. Application has been submitted. Permission from Bhubaneswar Municipality for discharge of storm water by constructing own drain is permitted.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
6.	Permission from NHAI for laying out of connection to the drain. Also, all other relevant clearances as per revised proposals.	There is no plan to discharge of any surplus water (storm water or treated waste water) from the project premises into the drain connected to the National Highway. So, there is no requirement of permission from NHAI for laying out of connection to the drain. We were applied to City Engineer, BMC Bhubaneswar for permission of surplus treated water from our site discharge to the existing drain no-9 adjacent to the project site. Receiving letter attached as **Annexure-V**.	There is no plan to discharge of any surplus water (storm water or treated waste water) from the project premises into the drain connected to the National Highway.
7.	The greenbelt should be increased to a minimum of 20%.	The green area 3095 sqm will be developed approx. 20% of the total plot area. As per MoEF & CC, 193 nos of Tree will be planted in around the project site of the plot area. The biodiversity in the area will increase due to the proposed green area. Layout plan showing green belt Development area is attached as **Annexure-II**.	-----
8.	Submit the Soil test Report carried on the proposed land.	Soil test Report is attached as **Annexure-VI**.	-----

22. The proposed site was visited by the sub-committee of SEAC on **17.06.2024**. Following are the observations of the sub-committee

a) The site is located adjacent to National Highway. One of its sides is having a drain.

b) The basement construction has just initiated. PP informed that the same is as per previous EC conditions.

c) The PP explained the comparison and mentioned that the present proposal is increase of floors from 17 to 22 as per revised BDA plan and the built-up area at ground level will be marginally higher due to podium. PP was asked to submit the following:

i) Revised BDA Plan (if not submitted)

ii) Certificate from BDA empanelled Architect that the current minor construction started is as per previous EC condition

iii) Agree to construct retaining wall in the side of drain for safety

iv) All statutory clearances including fire corridor to be taken for revised plan

v) Permission for discharge of excess treated water to the adjacent drain to be taken.

vi) All other compliances etc. asked during presentation to be submitted.

23. The SEAC decided in its meeting held on dated **25-07-2024** to take the decision on the proposal after receipt of the following from the proponent as raised during site visit.

i) Revised BDA Plan (if not submitted)

ii) Certificate from BDA empanelled Architect that the current minor construction started is as per previous EC condition

iii) Agree to construct retaining wall in the side of drain for safety

iv) All statutory clearances including fire corridor to be taken for revised plan

v) Permission for discharge of excess treated water to the adjacent drain to be taken.

vi) Half yearly compliance report of the existing Environmental Clearance. As screen shot of application submitted in portal has been submitted in ADS.

vii) It is not clear that changes are made only at ground level but number of floors have been increased (and dwelling units also). Secondly ground coverage was at @30% of net plot area but now it is @34%. Please clarify whether it is permissible.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Revised BDA Plan (if not submitted)	Revised BDA Plan is attached as **Annexure-1.**	Revised BDA Plan has been attached as **Annexure-1 and complied.**
2.	Certificate from BDA empaneled Architect that the current minor construction started is as per previous EC condition	Certificate from BDA empaneled Architect that the current minor construction started as per previous EC condition is attached as **Annexure-2.**	Annexure-2 is attached and complied
3.	Agree to construct retaining wall in the side of drain for safety	Yes, we agree to build a retaining wall along the drain for safety.	Complied.
4.	All statutory clearances including fire corridor to be taken for revised plan	Status of all statutory clearances obtained for revised plan • Grant Environment Clearance having File No. 21-69/2022-IA-III On dated - 31/10/2022 • Revised Clearance from NAAI vide their NOC ID: BHUB/EAST/B/062221/552396 ON dt. 06.01.2023 • Fire recommendation given by the Fire Officer, Fire Prevention wing . Odisha vide their Recommendation no.: RECOMM1204130072024001895, on dated 04.03.2024 • Permission from TPCODL vide their letter no.1448(4)/dt.16.02.2023 • Approval from Bhubaneswar vide letter no. 2928,dt.18/01/2024 • NOC from BMC, Bhubaneswar vide letter no. 6019,dt.07/02/2023	Complied

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		• Clearance from CGWA in respect of tapping of Ground water vide their NOC NO: CGWA/NOC/INF/ORIG/2022/17417 On Dt. 28.12.2022 • Structural design vetted by the Deptt. of the Indian Institute Of Technology Bombay vide their letter no. DRD/CE/RSJ-120/22-23 - Dt. 7 th Oct 2022. • Application to NHAI • Application to city engineer for grant of permission to disposal of surplus Treated water to the drain no-9 • PH Department vide their letter no. 4205/dt.16/03/2024, All statutory documents area attached as **Annexure-3**.	
5.	Permission for discharge of excess treated water to the adjacent drain to be taken.	We are applying to Bhubaneswar Municipal Corporation for discharge of excess treated water to the adjacent drain no. IX. Application letter is attached as **Annexure-4**	Application letter for discharge of excess surplus treated water to the adjacent drain applied.
6.	All other compliances etc. asked during presentation to be submitted	Half yearly Compliance report for the period of (Oct-2023 to March-2024) the existing Environmental Clearance is **Annexure -5.**	Complied
7.	It is not clear that changes are made only at ground level but number of floors have been increased (and dwelling units also). Secondly ground coverage was at @30% of net plot area but now it is @34%. Please clarify whether it is permissible.	In this regard, we would like to bring to your notice that, they said project was earlier approved and availed environmental clearance having four towers of residential apartment. However, in this revised proposal the four towers are joined together only at the ground level (not in any other top floors) to make it as one block of residential tower. Therefore, the coverage area of the earlier approval is increased from 4543.2 sqmt (28.65%) to the new approval of 5256.73 sqmt (33.97%). Rest all area such as basement floor, typical floor is not changed from its earlier approval and remains as it is. We hereby humbly request you to kindly consider the matter and avail us the environmental clearance for the said project.	---

25. They have already paid the first instalment (Rs 46,16,555) of EIDP fee structure towards development of external infrastructure plan. They have to take EIDP approval for external

infrastructure development, execute it and get approval from the engineering wing of BMC before taking occupancy. That is why they will submit the approved EIDP and permission to discharge of surplus treated water into the nearest drain before taking Occupancy Certificate from concern authority.

26. They submitted the request application to the Ministry of Environment, Forest and Climate Change, Regional office (EZ), A/3, Chandrasekhar, in August 2024 for issue of certified compliance report to earlier Environmental Clearance conditions. Every six months they are also submitting the compliance report against every condition given in the Environment Clearance having File No: 21-69/2022-IA.III on dated 31/10/2022. The uploaded six-monthly compliance report of i) April to September-2023, ii) October -2023 to March-2024 and iii) April to September -2024 have been submitted.

Considering the information furnished and the presentation made by the consultant, **M/s Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar** along with the project proponent, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – B** in addition to the following specific conditions. **However, SEIAA, Odisha may consider to issue Environmental Clearance after submission of certified compliance report to earlier EC conditions from Ministry of Environment, Forest and Climate Change, Regional office (EZ), A/3, Chandrasekhar.**

i) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.

ii) The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.

iii) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.

iv) The proponent shall obtain permission from concerned Fire Safety Authority.

v) The commercial block to be used only for the residents of that apartment as mentioned by PP.

vi) Trees located within the project area shall be transplanted to alongside the boundary green development area.

vii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.

viii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.

ix) The PP will not commence construction unless the drain lay out is finalized and permission given for the same by the authority to discharge excess treated water & storm water.

x) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.

xi) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

ITEM NO. 03

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

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

Statutory clearances:

Sl. No.	Particulars	Letter No. / Application No.
i)	Fire Safety Recommendation No. Application No.	RECOMM1204130012023001025 FSR1204130012023000004
ii)	NoC from TPCODL	TPCODL letter No. 4308 on dated 07th 2022
iii)	NoC for Own Water Supply & Sewerage Connection System	PHD Division, Bhubaneswar letter no. 176 on dated 07/01/2023
iv)	Height Clearance NoC from AAI	BHUB/EAST/B/102121/629810
v)	NoC for Ground Water Abstraction	CGWA/NOC/INF/ORIG/2023/18149 on dated 11/04/2023
vi)	Approval letter from BMC	BP-BMC-2022-06-21-004957 Letter No-57693/dated 19/09/2022
vii)	Structural Stability Certificate	Registration no. RTP/DTP(ST.ER)-092/2018 Valid upto 10/05/2024

Sl. No.	Particulars	Letter No. / Application No.
viii)	Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur Distributary, Mouza - Pandra for access to Plot No. 2807, 2808, 2810, 2798, 2799 over Sabak Khata No. 426, Hal Khata No. 297 Mouza - Pandra, Tahalil - Bhubaneswar,	Letter no. -6908/we on dated 27/11/2019

4. **Location and connectivity**: The area is located in Survey of India Topo sheet No. F45T15 bearing Plot No-2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866, Khata no-1330/9654. Geographical coordinates for the project site are latitude of $20^0$18'15.37N and longitude - 85^0 52' 28.11"E. The kisam of the plots are Ghrabari. The project site is at a distance of 5.2 Km-W from NH-16/AH-45, 1.20 Km –E from Nandankanan Road. Site is flat land with average elevation of 20-21m AMSL. Project site is well connected with New Hitech Road which connects to NH-16 at the distance of 62 m. North direction. Proposed project site also connects to NH-316 (Bhubaneswar-puri Highway) at Pandara Square about 1.3 km-SW to the project site. Vanivihar Railway station is 2.55 Km - SSW away from Project site. Mancheswar Railway Station is 3.61 km away in North-West. Bhubaneswar railway station is 5.27 km away in South-West. Biju Patnaik International Airport 8.34 km in South West. Nearest water body is Gangua Nala at 0.24km. Nearest assess to building as per the plan, the proposed building abuts on a road of width 12.19 mtrs. at front side of the proposed building, which shall be made as per Rule-31 of Odisha Development Authorities (Planning and Building Standards) Rules, 2020. Besides, a culvert has been shown in the proposed building plan, the same shall be of width 12 mtrs for access to the premises.
5. The project falls under seismic zone-III as per IS1893 (Part-1):2002 indicating Moderate to lower damage risk zone. The buildings will be designed as earthquake resistant and comply with the required IS specifications.
6. **Area details**: Plot area of project is estimated to be 7104.23 sqm, or 1.755 Acres or 0.7104 Ha. & the Built-up Area is estimated to be 38015.17 **sqm.**

AREA STATEMENT	
Particulars	**Area (in m^2)**
TOTAL PLOT AREA	7104.23
Ground Coverage Required(40% of plot area)	2841.7
Area Of Ground Coverage Achieved (39.83% of plot area)	2829.75
STILT FLOOR-1	
BUILT UP AREA	2781.93
EXEMPTION AREA (FIRE TOWER)	129.24
STILT FLOOR-1 AREA FOR FAR	2652.69
BLOCK-A,B,C &D SERVICES AREA (EXEMPTION AREA IN PARKING)	36.46
STILT FLOOR-1 PARKING AREA	2616.23
STILT FLOOR-2	
BUILT UP AREA	2781.93

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

7. **Water requirement:** Total water requirement of the project is expected to be 180 KLD approximately; out of which fresh water requirement is 120KLD. Domestic: 120 KLD and Flushing: 60 KLD. The source of water is PHED for which PP has obtained No objection certificate from PHD, Bhubaneswar vide letter no. 176 on dated 07.01.2023. There is also provision for groundwater for standby for which PP has applied to CGWB and got the NOC from CGWB vide NOC no. CGWA/NOC/INF/ORIG/2023/18149 with Date of Issuance: 11/04/2023 which is valid up to 10/04/2028. This is for Dry season. The PP has mentioned there is a provision for zero discharge concept in Dry season.
8. For Rainy season, the fresh water requirement of 120 KLD will decrease from 120 KLD to 30 KLD by availing it from roof top storm water collection - 90KLD and 30KLD from Bore well/supply water. Discharge to nearest Drain will be 40 KLD in rainy season.
9. **Waste water generated and its management**: The total waste water generated is 144KLD which will be treated in STP of capacity 160KLD. Treated water recovered is 115KLD which will be used in Gardening – 40KLD, DG Set cooling – 15KLD and 60

KLD in Flushing water. The PP has mentioned there is a provision for zero discharge concept in Dry season. Discharge to nearest Drain will be 40 KLD in rainy season.

10. **Greenbelt:** About 100 trees of 8 types of species (Neem, Peepal, Mango, Shisham, Sirish, Babool, Gulmohar or local plants as per the advice of forest officers) will be planted both inside the project area and all along the boundary to create a boundary of greenery.

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

11. **Solid waste management:** The solid waste generated from project will be mainly domestic in nature and the quantity of the waste will be 0.614 Ton/day. Solid wastes generated will be segregated into biodegradable 0.246 T/Day (waste vegetables and foods etc.) and Non-biodegradable or recyclable 0.368 Ton/day (papers, cartons, thermo-col, plastics, glass etc.) Components will be collected in separate bins. The biodegradable organic wastes will be treated inside the premises by OWC (Organic Waste Converter) of capacity to treat 250 kg/day. Recyclable and non-recyclable wastes will be disposed through Govt. approved agency.

12. **Power requirement**: The power supply shall be supplied by TPCODL. The maximum demand load is estimated at 1341 KW or 1578 KVA. Permission for Electrical supply to the proposed project site is received from office of the Divisional Manager (Electrical) through Letter No:-4308 on dated 07/---/2022.There is provision of Power backup for the residential project will be through DG sets of total capacity. 1 Nos. 250KVA+1 Nos. 320 0KVA, 415Volts DG Sets with acoustic enclosure with DG Synchronisation with DG Set Stack of 65 m.

13. **Solar energy details**:

Total Connected Load in kW	1734.2 KW
Solar Power Required in kW @ 5% of the Connected Load	86.7KW
Solar Power In kW to be generated by Roof Top Solar Panels	87KW
No. of Solar panels required (300W to 400W capacity)	62NOS
SUGGESTED SOLAR SYSTEM: 62 Nos. of Solar Panels suitable for 87 KW LOAD	

14. **Waste management**: Around 2 KLD effluent will be generated which will be treated in septic tank followed by soak pits.27 kg/day solid waste (peak) will be generated during construction phase and will be disposed through waste handling agency.

15. **Rain water harvesting** - 10 nos of recharge pits for collection of storm water at selected locations will be provided, which will catch the maximum surface run-off water and roof water and will be stored in a storage tank having capacity of 90 m^3.

16. **Parking details**:

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

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

Table: EMP cost

Source	Capital Cost (In Lacs)	Recurring Cost (In lacs)
Landscaping	10	0.5
Rain Water Harvesting	10	0.2
Solid Waste Management	8	0.5
STP	50	1.2
Acoustic Enclosure & DG Set Stack	10	0.2
Environmental Monitoring	3	0.5
Total	**91**	**3.1**

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

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

a) Permission letter for constructing approach Road Bridge over Prachi Canal for transportation.

b) Permission from BMC to use nearest public drain to discharge treated water.

c) Undertaking by the Project Proponent to use PHED water when available to the area and extraction of water from groundwater should be minimal.

d) Relook at the possibility to increase parking area as per the parking norms and calculation of parking area should be given in percentage as well as area wise.

e) Details of solar power generation and consumption.

f) Relook at the water discharge calculation.

g) Revisit the water balance for Dry season as there is deficit of 29KLD and according to the Project Proponent in dry season a Zero Liquid Discharge concept will be obtained.

h) RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.

i) Detail plan of drainage for discharging excess treated sewage water.

j) Source of water for use during construction phase.

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

i) Environmental settings of the project site.

ii) Construction activity, if any started at the site.

iii) Road connectivity to the project site.

iv) Drainage network at the site.

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

vi) Any other issues including local issues.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Permission letter for constructing approach road bridge over Prachi Canal for transportation.	Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur Distributary, Mouza - Pandra for access to Plot No. 2807, 2808, 2810, 2798, 2799 over Sabik Khata No. 426, Hal Khata No. 297 Mouza - Pandra, Tahalil – Bhubaneswar. Permission letter no: 6908/we on dated 27/11/2019 is attached as **Annexure- (a).**
2.	Permission from BMC to use nearest public drain to discharge treated water.	We already received of NOC for Water Supply & Sewerage Connection to the proposed Block-(A) Sl+S2+S3+10, Block (B) Sl+S2+S3+10, Block (C)Sl+S2+ S3+18, Block (D)Sl+S2+S3+18 Multi storied residential apartment building (MIG Category) over Plot No. 2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866 & Khata No. 1330/9654 in Mouza: Pandara, Bhubaneswar from Office of the Superintending Engineer PHD,BBSR vide letter no. 176, Dated 07/01/2023 which is attached as **Annexure (b).**
3.	Undertaking by the	The water requirement of 120 KLD will be supplied

<table>
<tr><th>Sl. No.</th><th>Information Sought by SEAC</th><th>Compliance furnished by the proponent</th></tr>
<tr><td></td><td>Project Proponent to use PHED water when available to the area and extraction of water from groundwater should be minimal.</td><td>by PHED) water supply system. Presently there is no municipal (PHED) water supply system located near our project site. There will be no provision of sourcing the same from any other Supply water/surface water body. Hence, we will meet the daily fresh water requirement through ground water during the operation phase. We got the no objection certificate from PHD, Bhubaneswar vide letter no. 176 on dated 07.01.2023.
We applied to CGWB for ground water and finally we got the NOC from CGWB vide NOC no. CGWA/NOC/INF/ORIG/2023/18149.
We will use PHED water when available to the area and extraction of water from groundwater should be minimal.
Undertaking is attached as Annexure-C.</td></tr>
<tr><td>4.</td><td>Relook at the possibility to increase parking area as per the parking norms and calculation of parking area should be given in percentage as well as area wise.</td><td>Parking area provided as per ODA Norms. Parking layout as per are attached as Annexure-(d).
<table>
<tr><th>FACILITIES</th><th>AREA IN SQM</th></tr>
<tr><td>Parking Area Required(25% OF B.U.A)</td><td>7086.51</td></tr>
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</table></td></tr>
<tr><td>5.</td><td>Details of solar power generation and consumption.</td><td>SOLAR PANEL SIZING (IN KW) AND SOLAR POWER GENERATION.
The Solar Power Demand For Campus area Light ,</td></tr>
</table>

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		Main Gate Light will be 87 KW (5% of total demand) SUGGESTED UPS FOR EMERGENCY LIGHTING : 1 x 8KVA, 1Phase Input / 1Phase Output with 90 Minutes backup Selection of SOLAR SYSTEM: Total Connected Load in Kw:-1734.2 KW Solar Power Required in kW @ 5% of the Connected Load 86.7 KW Solar Power In kW to be generated by Roof Top Solar Panels 87KW No. of Solar panels Required (300W to 400W capacity) : 62 NOS SUGGESTED SOLAR SYSTEM : 62 Nos. of Solar Panels suitable for 87 KW load
6.	Relook at the water discharge calculation.	Total water requirement of the project is expected to be 180 KLD approximately; Domestic: 120 KLD (source: rain water harvesting-90 KLD and 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. **Reuse of treated waste water (Zero discharge norms will be followed during dry season)** Flushing: 60 KLD Greenbelt : 40 KLD During rainy season Fresh water requirement will be decreases from 120 KLD to 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. **Only 40 KLD of treated water will be discharge to nearest Drain.**
7.	Revisit the water balance for Dry season as there is deficit of 29KLD and according to the Project Proponent in dry season a Zero Liquid Discharge concept will be obtained.	As per NBC the quantity of waste water generate from dwelling units and other facilities should be 80 to 90% of the raw water. So that the waste water recovered after treatment is 115 KLD. Total water requirement of the project is expected to be 180 KLD approximately; Domestic: 120 KLD (source: rain water harvesting-90 KLD and 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top Storm water collection. **Reuse of treated waste water (Zero discharge norms will be followed during dry season)** Flushing: 60 KLD Greenbelt : 40 KLD During rainy season Fresh water requirement will be decreases from 120 KLD to 30 KLD which will be sourced from Bore well/supply water. (Makeup Water of 90KLD will be managed from roof top

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

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

a) PP and consultant team were present and explained the layout.

b) There are no construction activities undertaken at project site.

c) The site is connected with a public road on Prachi Canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that the land between Project site and Gangua nallah is not part of the project site. PP has to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.

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

e) PP need to submit the documents in support of building approval application, Fire NOC / recommendations, fire fighting provisions and fire corridor.

21. The SEAC in its meeting held on **17-11-2023** decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	The site is connected with a public road on prachi canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that the land between Project site and Gangua nallah is not part of the project site. PP has to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.	Permission letter for constructing approach Road Bridge over Prachi Canal for transportation. Permission for construction of V.R Bridge at RD 13.95 Km, of Lingipur Distributary Mouza – Pandra for access to Plot No. 2807,2808,2810,2798, 2799 over Sabik Khata No. 426, Hal Khata No. 297 Mouza – Pandra, Tahasil-Bhubaneswar. Permission letter no. 6908/we on dated 27/11/2019 is attached as **Annexure – (a)**	The query raised was to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain. Here PP has submitted only permission to construct the Road Bridge over Prachi Canal for transportation.
2.	The PP has to submit the layout showing the drainage network starting from building site to natural nallah. The drain design needs to be prepared and approved by appropriate authority considering the data of RLs of bottom of drain at strategic locations and invert level of natural nallah, the runoff calculations during highest rain fall, so that the area is not flooded with rain water during heavy rainfall. The maximum ground water level vs proposed ground level, the parking area, RWH etc. (after construction) needs to be considered taking into account the maximum rainfall of the area for adequate structural stability.	As per the soil testing report, the water level depth is given below In BH NO-01:- 2.30m, BH NO-02: 2.40m, BH NO-03: 2.40m and BH NO-04: 2.35m As per India – WRIS, The water level of the project are during pre-monsoon -5.14 mbgl, post monsoon: -3.72 mbgl and during monsoon -2.2 mbgl Annual average water level is 3.71 mbgl The capacity of the recharge pit is designed to retain runoff from at least 15 minutes rainfall of peak intensity. (10 recharge pit will be required having capacity of 6 cum according to CGWB norms). Approved by FIDP, Bhubaneswar, attached as **Annexure – (h)** We already received of NOC for water Supply & Sewerage Connection to the proposed	The query raised was to submit the layout showing the drainage network starting from building site to natural nallah.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		Block – (A) s1+s2+s3+10, Block (B) S1+S2+S3+10, Block (C) S1+S2+S3+18, Block (D) S1+S2+S3+18 Multi storied residential apartment building (MIG Category) over plot no. 2810/15121, 2808/15127, 2807,2800, 2798 & 2799/15866 & Khata No. 1330/9654 in Mouza: Pandara, Bhubaneswar from Office of the Superintending Engineer PHD, BBSR vide letter no.176/ Dated 07/01/2023 which is attached as **Annexure (b)**.	
3.	Source of water for use during construction phase.	The water requirement during the construction phase will be met from private water tankers.	-

22. The SEAC in its meeting held on **29-04-2024** decided to take the decision on the proposal after receipt of the following from the proponent raised during site visit:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	The site is connected with a public road on Prachi canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that the land between Project site and Gangua nallah is not part of the project site. PP has to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.	Permission letter for constructing approach Road Bridge over Prachi Canal for transportation. Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur Distributary, Mouza – Pandra for access to Plot No. 2807, 2808, 2810, 2798, 2799 over Sabik Khata No. 426, Hal Khata No. 297, Mouza –Pandra, Tahasil – Bhubaneswar. Permission letter no. 6908/we on dated 27/11/2019 is attached as **Annexure-(a).**	The query raised was to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain. Here PP has submitted only permission to construct the Road Bridge over Prachi Canal for transportation.
2.	The PP has to submit the layout showing the drainage network starting from building site to natural nallah. The drain design needs to be prepared and approved by	As per the soil testing report, the water level depth is given below in BH NO-01:- 2.30m, BH NO-02:2.40m, BH NO-03:2.40m and BH NO-04:2.35m	Drawing and design report is submitted in compliance report.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	appropriate authority considering the data of RLs of bottom of drain at strategic locations and invert level of natural nallah, the runoff calculations during highest rain fall, so that the area is not flooded with rain water during heavy rainfall. The maximum ground water level vs proposed ground level, the parking area, RWH etc. (after construction) needs to be considered taking into account the maximum rainfall of the area for adequate structural stability.	As per India- WRIS, The water level of the project area during pre-monsoon – 5.14 mbgl, post monsoon:- 3.72 mbgl and during monsoon – 2.2 mbgl Annual average water level is 3.71 mbgl The capacity of the recharge pit is designed to retain runoff at least 15 minutes rainfall of peak intensity. (10 recharge pit will be required having capacity of 6 cum according to CGWB norms) Drawing and design report for excess treated waste water and storm water has been approved by EIDP, Bhubaneswar, attached as **Annexure – (h)** We already received of NOC for water Supply & Sewerage Connection to the proposed Block (A) s1+s2+s3+10, Block (B) s1+s2+s3+10, Block (C) s1+s2+s3+18, Block (D) s1+s2+s3+18 Multi storied residential apartment building (MIG Category) over Plot No. 2810/15121, 2808/15127, 2807, 2800, 2798 & 2799/15866 & Khata No. 1330/9654 in Mouza: Pandra, Bhubaneswar from Office of the Superitending Engineer PHD, BBSR vide letter no. 176, Dated 07/01/2023 which is attached as **Annexure (b).**	
3.	The PP has to obtain necessary permission of the CGWA for utilisation of the ground water necessary during operational phase of the project in the absence of supply of PHED water.	The water requirement during the construction phase will be met from private water tankers.	The PP has taken NOC for water Supply & Sewerage Connection from Office of the Superintending Engineer PHD, BBSR vide letter no. 176, Dated 07/01/2023 to have own arrangement. NOC from CGWB vide NOC no. CGWA/NOC/INF/ORIG/2023/18149 with Date of Issuance: 11/04/2023 which is valid up to 10/04/2028 for ---KLD obtained by PP.

23. The SEAC in its meeting held on dated **03-07-2024** decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	The site is connected with a public road on prachi canal. PP stated that the excess rain water/ treated water from project site will be discharged to Gangua nallah. It is observed that the land between Project site and Gangua nallah is not part of the project site. PP has to submit detail of land schedule showing ownership of the land along the proposed drain to Gangua nallah and obtain NOC from the landowner for construction of such drain.	Permission letter for constructing approach Road Bridge over Prachi Canal for transportation. Permission for construction of V.R Bridge at RD 13.95 Km. of Lingipur Distributary, Mouza – Pandra for access to Plot No. 2807, 2810, 2798, 2799 over Sabik Khtaa No. 426, Hal Khata No. 297 Mouza – Pandra, Tahasil – Bhubaneswar. Permission letter no: 6908/we on dated 27/11/2019 is attached as Annexure-(A). We already received of NOC for Water Supply & sewerage Connection to the proposed Block-(A) S1+S2+S3+10, Block (B) S1+S2+S3+10, Block (C) S1+S2+S3+18, Block (D) S1+S2+S3+18 Multi storied residential apartment building (MIG Category) over Plot no. 2810/15121. 2808/15127, 2807,2800, 2798/15866 & Khata No. 1330/9654 in Mouza: Pandara, Bhubaneswar from Office of the Superintending Engineer PHD, BBSR vide letter no. 176 Dated 07/01/2023 which is attached as Annexure – (B). Drawing and design report for excess treated waste water and storm water has been approved by EIDP, Bhubaneswar, attached as Annexure – (C) As per EIDP Drawing the drainage line constructed on Concerned lands is owned by the project proponent Mr. Rajesh Kumar Nayak Agreement for the plot nos 2789 and 2790 are attached as Annexure – (D).	As per EIDP Drawing the drainage line constructed on Concerned lands is owned by the project proponent Mr. Rajesh Kumar Nayak Agreement for the plot nos 2789 and 2790 are attached as Annexure – (D). There is no EIDP drawing in the pdf file submitted by the project proponent under ADS. Annexure (C) of the ADS document pdf file is letter No. 42597 dated 07th September 2023 from the Superintending Engineer, Drainage Division, Bhubaneswar Municipality Corporation conveying approval only for disposal of storm water and no other purpose. No approval for discharge of 40 KLD excess treated sewage water (Refer para 8 above) could be seen in the ADS pdf. file.

Considering the information furnished and the presentation made by the consultant, **M/s Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar** along with the project proponent, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – C** in addition to the following specific

conditions.

i) The Proponent before implementation of the project shall convert the land to Gharabari and shall take the ownership of the land if not already taken.

ii) The PP shall obtain necessary permission from appropriate authorities for discharge of 40 KLD excess treated sewage water and the EIDP drawing along with relevant document evidencing unhindered access of the PP over the required land for constructing the drain (As per the approved EIDP) to facilitate discharge of stormwater along with the excess treated water from the project site to Gangua Nalla shall be submitted to SEIAA, Odisha, without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be.

iii) The proponent shall use solar energy at least to the tune of 5% of total power requirement as proposed.

iv) The proponent shall obtain permission from concerned Fire Safety Authority.

v) The commercial block to be used only for the residents of that apartment as mentioned by PP.

vi) Trees located within the project area shall be transplanted to alongside the boundary green development area.

vii) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.

viii) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.

ix) The PP will not commence construction unless the drain lay out is finalized and permission given for the same by the authority to discharge excess treated water & storm water.

x) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.

xi) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

ITEM NO. 04

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S JAGANNATH INDUSTRIAL AND LOGISTICS PARKS PRIVATE LIMITED FOR CONSTRUCTION OF PROPOSED WAREHOUSE WITH TOTAL BUILT-UP AREA: 32159.58 SQM ON IDCO PLOT NO-1, CORRESPONDING REVENUE PLOT NO. SABIK 269 (P), 270 (P), HAL - 269/4029 (P), 270(P), KHATA NO. - HAL-727/953, SABIK 807, 810 LOCATED IN VILLAGE - BANIPADA, TAHASIL - TANGI CHOUDWAR, DISTRICT - CUTTACK OF SRI ARUL MURUGAN - EC

1. This proposal is for Environmental Clearance of M/s Jagannath Industrial and Logistics Parks Private Limited for Construction of Proposed Warehouse with total Built- up area:

32159.58 sqm. on IDCO Plot No-1, corresponding revenue plot no sabik 269(P), 270(P), Hal-269/4029 (P), 270(P), khata no-hal-727/953, sabik - 807,810 located in village: Banipada, Tahasil: Tangi Choudwar, District: Cuttack of Sri Arul Murugan.

2. **Category**: This project falls under Category "B", Project or Activity 8(a) - Building and construction Projects as per EIA Notification dated 14th Sept, 2006 and its amendments.

3. **Location and connectivity:** The project is located on plot no. SABIK- 269(P), 270(P), HAL-269/4029(P), 270 (P), Khata No: HAL – 727/953, SABIK - 807 & 810 Village: Banipada, Tahasil: Tangi - Choudwar, Dist: Cuttack, Odisha. The project site can be demarcated in Toposheet no. 73H/14 with following geo coordinates - Latitude: 20°32'36.95"N to 20°32'52.51"N and Longitude: 85°52'13.76"E to 85°52'20.91"E. The project site is located at a distance of 3 Km from NH – 55 and connected through a 12m wide blacktopped road. Nearest Railway Station is Charbatia – 5Km. Nearest Airport is Biju Patnaik International Airport at 35Km. ARC Charbatia is at 6km. Due NOC has been obtained from ARC Charbatia for this project. SCB Medical College and Hospital is at 15km distance from project site. There is no perennial water body at close proximity of the project site. The project area and its buffer zone do not include any wild life corridor or fish ladder. The project isn't coming under any CRZ area.

4. The site is coming under IDCO, SPA, Bhubaneswar.

5. The allotted Plot area is 14.426 Acres (58,379.9 sqm), Net Plot Area is 13.72 Acres i.e. 55542.55 sqm. and Built-up area is 32159.58sqm.

6. **Area Statement:**

Sl. No	Details	Area In Sq. m	Area In Acres
1	Net Plot area	55,542.55	13.72
2	Total Ground Coverage Area of Buildings (54.35%)	30,186.39	
3	Roads And Pavements Area (16.20%)	8997.79	
4	Surface Parking (26.7% of FAR; 15.05% of the plot area)	8360.97	
5	Amenities and utility building area (1.83% of site area)	1017.08	
6	Green Belt Development Area (12.57% of site area)	6980.32	
BUILT UP AREA STATEMENT			
Sl. No	Floor Plan	Built Up Area in Sq.m	
1.	Warehouse Building 1	9337.28	
2.	Warehouse Building 1 Amenities Block	173.06	
3.	Warehouse Building I Canopy area + covered parking area	704.06	
4.	Warehouse Building	20,732.75	
5.	Warehouse 2 canopy area	685.91	
	Total Built up area	31633.06	
UTILITY BUILDINGS			
6	Pump room	140.00	

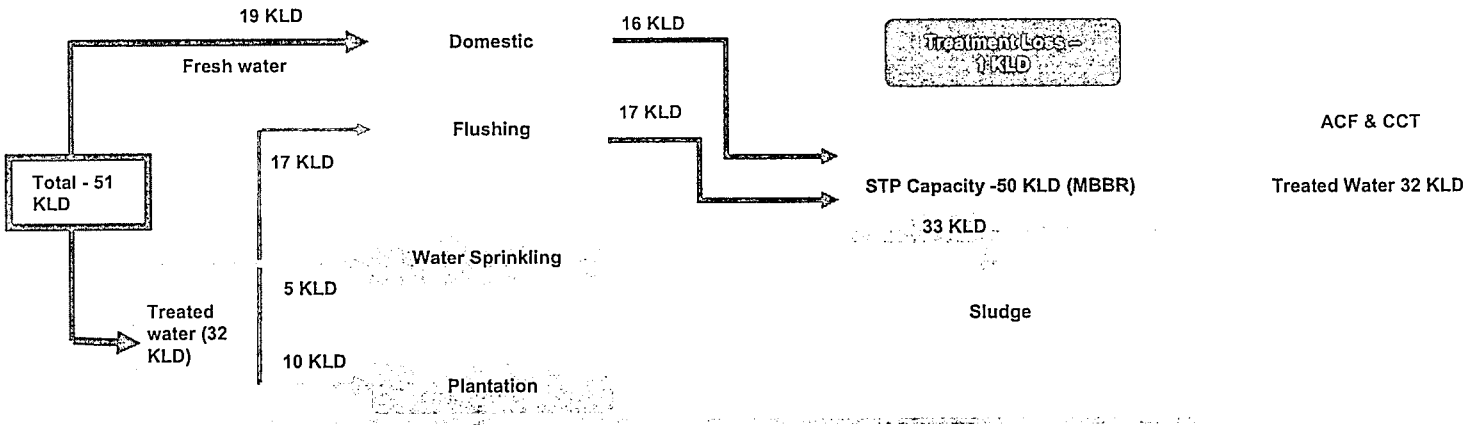
7	Substation	119.33
8	Ground Floor Security Room	53.69
9	First Floor TVS Facility Office	53.69
10	Common Toilet	21.10
11	B1 Drivers Restroom	118.31
12	Security Cabin 1	9.90
13	Security Cabin 2	9.90
Total Utility Area		**526.52**
Overall Built-up area		**32159.58**

7. **Water requirement**: The total water requirement is 51 KLD, out of which 19 KLD (37%) of fresh water will be met through bore well for drinking, washing and other domestic purpose. 32 KLD (63%) of water will be made available from treated wastewater for toilet flushing, water sprinkling and gardening purpose. Fresh Water will be sourced from ground water. Permission from ground water board will be obtained for withdrawal of ground water.

8. **Wastewater treatment**: Waste water generated will be treated in STP of capacity 50KLD.

Sl. No.	Description	Total Population	Water Requirement				Gross Water	Water Flow To STP				
			Flushing (recycled water)		Domestic (Fresh Water)			Flushing	Domestic			Total
			LPCD	LPD	LPCD	LPD	LPD	%	LPD	%	LPD	LPD
Domestic Water												
1	Commercial area (Floating population)	500	25	12500	20	10000	22500	100	12500	85	8500	21000
2	Commercial area (Fixed population)	100	45	4500	90	9000	13500	100	4500	85	7650	12150
3	Water sprinkling	--	--	--	--	--	5000					
4	Gardening	--	--	--	--	--	10000					
Total				**17000**		**19000**	**51000**		**17000**		**16150**	**33150**
Lpd: Liters Per Day												
Lpcd: Litres Per Capita Per Day												
Water Requirement for Gardening: 10 KL/D (STP treated water), Water requirement for Flushing 17 KLD (treated water), Washing: 5 KLD												

Water Requirement and water Balance



9. **Rainwater harvesting details**: Rain Water will be harvested through 11 nos. of Rain Water recharging pits.
10. **Power Requirement**: The project has estimated the requirement of power connection of 40 KW to meets its electricity need during the construction phase of the project. During the operation phase power requirement will be 600 kVA. The company has planned one transformer of 800 KVA and for power backup; one silent DG set of 62.5 kVA is proposed to be installed as laid down in the agreement. Further 2 x 250 kVA DG set will be installed during the operation phase of the project. Solar Power generation will be of 31.5 KW (5.3% of total power demand)
11. **Parking Requirement**: Total parking area provided is 8360.97 Sq.mt. which is mainly open parking area.
12. **Firefighting Installations**: The total nos of Fire Exits are 22 nos; total no of external fire hydrant is 21 nos and total no of internal fire hydrants is 6 nos. Fire safety recommendation has been obtained from Odisha Fire safety emergency services vide Recommendation no. RECOMM 1101020092024001907 dated 08.03.2024.
13. **Solid waste generation**: The solid waste generation from the project will be mainly organic and inorganic solid waste. Total waste generation from the project will be 0.25 Kg/ capita per day. The total waste generation from the project will be 150 Kg/ day. Out of the total waste generation 90 Kg/ day will be organic waste and 60 Kg/ day will be inorganic waste. The solid waste that is generated will be segregated at source as per Municipal Solid Waste (Management and Handling) Rules, 2000. The organic waste will be disposed through organic waste converter. Recyclable solid waste viz. Plastic, Metal, Glass etc will be sold to authorized agencies/disposed to local municipal service. The E-waste generated will be about 5 kg/ annum while Hazardous waste generated will be around 100kg/annum. Both E-waste & hazardous waste will be stored separately and shall be handed over to approved / authorized disposal agencies.
14. **Greenbelt**: Green belt is developed over an area of 6980.32 sqm which is 12.57% of the total plot area. No. of tress proposed is 709nos.
15. Traffic Study has been conducted and LOS calculated/found to be "C".

16. **Project cost**: The estimated project cost is ₹45Crores and cost for EMP is Capital Cost – Rs. 54.0 (in Lakhs) & Recurring Cost – Rs. 9.5 (in Lakhs).

17. **Environment Consultant**: The Environment consultant **M/s. Kalyani Laboratories Pvt. Ltd., Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee on 26.07.2024.

18. The SEAC in its meeting held on dated **26-07-2024** recommended the following:

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

i) Revisit total green belt area and submit revised greenbelt along with layout. The proponent needs to increase greenbelt (tree plantation) from 12.57% to minimum 20% of the total plot area as per norms.

ii) Layout of the project area.

iii) Obtain approval from Water Resources department, Odisha along with NOC from CGWA for ground water withdrawal.

iv) The water requirement for the project is 51KLD which is too high for a logistics park proposal. The project proponent needs to submit proper justification for such high-water demand and revise accordingly.

v) Detailed break-up of water requirement, taking into consideration the total number of working shifts to be taken up in a day. Revise water balance and submit accordingly.

vi) Internal drainage layout plan and provision for discharge of storm water to nearest IDCO drain. NOC/Permission from concerned authority to be obtained for discharge of storm water to nearest public drain even if the project assured for Zero Liquid Discharge (ZLD).

vii) Ventilation arrangement details as per the norms.

viii) Traffic study Report vetted by Institute of repute.

ix) The SEAC observed that the width at the entry and exit point is less. The internal road width at the entry and exit point needs to be increased to 20-25meter taking into consideration for future development /expansion in that area.

x) Precautionary measures to be taken for elephant movement in that area in consultation with forest department.

xi) SOP for sanitation of the employees and hygiene guidelines to be followed.

xii) Provision to be kept for indoor air quality Monitoring.

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

i) Environmental settings of the project site.

ii) Verify if the site is a flood prone area.

iii) Construction activity if any started at the site and extent of construction activity.

iv) Road connectivity to the project site.

v) Drainage network at the site along with plan of discharging excess treated sewage water and storm water to the nearest public drain.

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

vii) Any other issues including local issues.

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	Revisit total green belt area and submit revised greenbelt alongwith layout. The proponent needs to increase greenbelt (tree plantation) from 12.57% to minimum 20% of the total plot area as per norms.	The layout plan has been revised and the green belt proposal has been increased to 11755.91 sq. m which is 20.14 % of the plot area. Revised layout plan is attached as **Annexure** 1.
2.	Layout of the project area.	Revised layout plan showing the Allotted plot area, Net plot area and FAR showing all the features are attached as **Annexure 2.**
3.	Obtain approval from Water Resources department, Odisha alongwith NOC from CGWA for ground water withdrawal.	NOC has been obtained from CGWA for withdrawal of ground water for the project. Copy of the NOC from CGWA attached as **Annexure 3.** As per the allocation letter we will make an undertaking with IDCO for water supply during the operation phase. Copy of the allocation letter attached **Annexure 4.**
4.	The water requirement for the project is 51KLD which is too high for a logistics park proposal. The project proponent needs to submit proper justification for such high water demand and revise accordingly.	As per Central ground water authority, Govt. of India (Estimation of water requirement for drinking and domestic use (Source: NBC 2016, BIS) water requirement for factories is 45 Liters/ day/ person for the non-residential workers. For residential workers water requirement will be 135 Liters/ day/ person. The calculation of water requirement is based on above criteria. Detail water requirement calculation is attached for reference. **Annexure 5.**
5.	Detailed break-up of water requirement, taking into consideration the total number of working shifts to be taken up in a day. Revise water balance and submit accordingly.	Detail breakup of water requirement taking into consideration the total no of working shifts is given in **Annexure 5.**
6.	Internal drainage layout plan and provision for discharge of storm water to nearest IDCO drain. NOC/Permission from concerned authority to be obtained for discharge of storm water to nearest public drain even if the project assured for Zero Liquid Discharge (ZLD).	The project is a part of IDCO development area. As per the provision IDCO will provide drainage facility for discharge of storm water from the project site. The copy of the agreement is attached as **Annexure 4.** **Internal drainage layout of the project is attached as Annexure 6.**
7.	Ventilation arrangement details as per the norms.	Details of ventilation arrangement is attached as **Annexure 7.**
8.	Traffic study Report vetted by Institute	Traffic study report has been vetted by Civil

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	of repute.	Engineering Department, KIIT Deemed to be University. Copy of the report attached as **Annexure 8.**
9.	The SEAC observed that the width at the entry and exit point is less. The internal road width at the entry and exit point needs to be increased to 20-25meter taking into consideration for future development /expansion in that area.	The road width at the entry and exit point has been provided as 9m (30 ft.). The entry/ exit point will connect to the internal road of IDCO which is 12m wide. The entry/ exit gate has been demarcated in the layout plan **Annexure 2.**
10.	Precautionary measures to be taken for elephant movement in that area in consultation with forest department.	The project site is located within the IDCO industrial Estate. The project site is located at a distance of more than 10 Km from Kapilas wildlife sanctuary. There is no elephant corridor exists within 5Km radius of the project site. Map showing the distance of the Project from Kapilas Wildlife sanctuary is attached. **Annexure 9.** So there will be no possibility of elephant movement near the project site. The boundary wall will be constructed with a height of approx. 3m which will act as barriers to restrict elephant movement.
11.	SOP for sanitation of the employees and hygiene guidelines to be followed.	SOP for sanitation of the employees and hygiene guidelines to be followed attached as **Annexure 10**
12.	Provision to be kept for indoor air quality Monitoring.	We are herewith submitting the undertaking that will conduct the indoor air quality monitoring once in a month in the logistic park. Copy of the undertaking attached **Annexure 11.**

20. The proposed site was visited by the sub-committee of SEAC on **21.08.2024**. Following are the observations of the sub-committee:

    a) The site is located at Road side in Choudwar allotted by IDCO. There was no construction at site.

    b) Site conditions and compliance required:

        i) The site has no drain but PP informed that this will be developed by IDCO. Copy of IDCO agreement to be given.

        ii) There are two power lines including several poles passing at one side of site. PP needs to submit compliance for shifting of these poles or revised layout leaving the safety area where these lines are there.

        iii) Submit revised layout showing RWH and recharge pits with dimensions and capacity.

        iv) As there is a local road towards end of one side, PP informed that they will leave that road and area for the local. PP will use that area for Plantation and green belt. So, PP needs to submit revised layout and revised greenbelt showing surface plan

        v) Fire measures and control system to be provided.

21. The SEAC in its meeting held on dated **20-09-2024** decided to take the decision on the proposal after receipt of the following from the proponent raised during site visit:

i) The site has no drain but PP informed that this will be developed by IDCO. Copy of IDCO agreement with the Project Proponent has been submitted. But An undertaking submitted by PP to take NOC/Permission from concerned authority to be obtained for discharge of storm water to nearest public drain alongwith drainage map attached. (Please check if it can be considered).

ii) There are two power lines including several poles passing at one side of site. PP needs to submit compliance for shifting of these poles or revised layout leaving the safety area where these lines are there.

iii) Submit revised layout showing RWH and recharge pits with dimensions and capacity.

iv) As there is a local road towards end of one side, PP informed that they will leave that road and area for the local. PP will use that area for Plantation and green belt. So, PP needs to submit revised layout and revised greenbelt showing surface plan

v) Fire measures and control system to be provided.

vi) Detailed break-up of water requirement, taking into consideration the total number of working shifts to be taken up in a day. Revise water balance and submit accordingly.

vii) The SEAC observed that the width at the entry and exit point is less. The internal road width at the entry and exit point needs to be increased to 20-25meter taking into consideration for future development /expansion in that area.

viii) There is a mis-match to the observation during site visit with regard to no of trees and explanation given by PP in ADS and figures given during presentation. Since, all the figures are different; a vivid explanation is required to be submitted by PP, before considering for EC.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	The site has no drain but PP informed that this will be developed by IDCO. Copy of IDCO agreement with the Project Proponent has been submitted. But An undertaking submitted by PP to take NOC/Permission from concerned authority to be obtained for discharge of storm water to nearest public drain alongwith drainage map attached. (Please check if it can be considered).	As the land belongs to industrial estate of IDCO, the drain will be constructed by the authority and discharge of the storm water will be to the proposed drainage system constructed by IDCO. The agreement / allotment letter with IDCO for discharge of storm water to the surface water drain is attached as **Annexure 1.**	Annexure 1 is attached and complied. Para 15 in page 3 of the letter No. HO/ID/A-9806/01-23/ 15399 dated 16th May 2023 from IDCO, Odisha, under Annexure 1, reads as follows. "The land is allotted in the Industrial Estate/ area on "As is where is basis" and no further demand for site filling, shifting of overhead/underground electric/ water/ sewerage lines or any development etc. shall

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
			be entertained by IDCO." Under the submitted land allotment letter IDCO is not liable to construct any drain as claimed by the project proponent.
2.	There are two power lines including several poles passing at one side of site. PP needs to submit compliance for shifting of these poles or revised layout leaving the safety area where these lines are there.	We will start our activity after shifting of the electricity line / poles. We've already applied to the concern authority. Junior Manager (Elect. Div) Charbatia division has submitted relevant document and diagram to SDO, TPCODL Choudwar Division for shifting of 33 KV Sankarpur Feeder and 11 KV Banipada Feeder from the premises of M/s Jagannath Industrial & Logistics Parks Pvt. Ltd. Copy of relevant document attached **Annexure 2.**	Annexure 2 is attached and complied. To be decided by SEAC.
3.	Submit revised layout showing RWH and recharge pits with dimensions and capacity.	Revised layout showing the RWH and recharge pit with dimensions and capacity is attached Annexure 3. The Dimension of rainwater harvesting pond is 12.8m x 9.8m x 3m and Volume of Each Recharge Pit (15m x 8m x 1.5m).	Annexure 3 is attached and complied.
4.	As there is a local road towards end of one side, PP informed that they will leave that road and area for the local. PP will use that area for Plantation and green belt. So, PP needs to submit revised layout and revised greenbelt showing surface plan	Revised layout showing the local road and green belt area is attached as **Annexure 4.**	Annexure 4 is attached and complied.
5.	Fire measures and control system to be provided.	All the fire control measures will be installed as per the Fire safety recommendation obtained from Odisha Fire and Emergency services vide recommendation no. RECOMM1101020092024001907 dated 08.03.2024. Copy attached **Annexure 5.**	Annexure 5 is attached and complied.
6.	Detailed break-up of water requirement, taking into consideration the total number of working shifts to be taken up in a day. Revise water balance and submit accordingly.	Revised water balance is attached as **Annexure 6.**	Annexure 6 is attached and complied.
7.	The SEAC observed that the width at the entry and exit point is less. The internal road width at the entry	We will explore the possibility of increasing the width of the entry and exit gate as suggested by Hon'ble	-

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	and exit point needs to be increased to 20-25meter taking into consideration for future development /expansion in that area.	SEAC.	
8.	There is a mis-match to the observation during site visit with regard to number of trees and explanation given by PP in ADS and figures given during presentation. Since, all the figures are different; a vivid explanation is required to be submitted by PP, before considering for EC.	During presentation it was informed the area proposed for plantation was 6980 sq.m (12.56%) with proposal for plantation of 709 nos of trees. However, the green belt plan was revised as per the ADS and now area proposed for plantation is 11755.91 sq.m (20.14%) with proposal for plantation of 2500 nos of trees which is along side of boundary. This was informed during site visit of members. As per the suggestion of the Hon'ble committee we are proposing for increase in green belt which results in increase in tree plantation.	Complied.

Considering the information furnished and the presentation made by the consultant, **M/s Kalyani Laboratories Pvt. Ltd., Bhubaneswar** along with the project proponent, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – D** in addition to the following specific conditions.

i) The Proponent before implementation of the project shall convert the land to Industrial purpose and shall take the ownership of the land if not already taken.

ii) The proponent shall obtain CMC/CDA approval of building plan with final layout plan showing the Fire corridor, internal drain, parking etc.

iii) The trees which are close to boundary to be retained as a part of green belt. Transplantation of balance trees to be carried out close to the boundary to be a part of green belt. Video/Photo of Transplantation to be recorded for verification during compliances.

iv) The Proponent shall obtain permission/NOC from Executive Engg. (PHD) and / or from the appropriate authority for disposal of excess ETP/STP treated water to the nearest drain without which the Proponent will not start construction work. Also, in case of the connecting drain passing through others land (Govt. or Private land), the Proponent shall obtain the permission and possession as the case may be. Proper arrangements shall be in place along with necessary approvals from the competent authorities for safe discharge of stormwater along with excess treated sewage water from the project site.

v) The proponent shall obtain permission from concerned authority for connecting drain to the road side drain with approval of drain layout and discharge of excess treated water.

vi) The proponent shall approve drain layout and sewage layout with plan for treatment and disposal of sewage waste.

vii) The proponent shall use solar energy at least to the tune of 5%of total power requirement as proposed.

viii) The proponent shall obtain permission from concerned Fire Safety Authority and fire protection measures shall be implemented as per recommendation of the Fire Safety Authority.

ix) The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.

x) The project proponent shall maximise utilisation of treated water in flushing, plantations and ground washings etc. as per need to reduce water discharge to drain. This shall be verified in future compliance report.

xi) Before starting the construction project physical properties as well as engineering properties of the soil along with its bearing capacity should be undertaken and the report should be submitted.

xii) **The proponent shall handover the hazardous waste generated from the park, if any to the Common TSDF and/or actual re-processor who has proper treatment and disposal facility for such waste and also authorized by the State Pollution Control Board, Odisha.**

xiii) All compliances submitted/ committed by PP(s) shall be strictly adhered to them in addition to all the conditions/ specific conditions of EC.

MEMBER SECRETARY, SEAC

ANNEXURE - A

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR DECORATIVE STONE MINES & STONE QUARRY

A. Specific conditions

1. The Project Proponent shall obtain consent from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.
2. Project Proponent 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.
3. 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 Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
4. Project Proponent 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 Ministry and SEIAA, Odisha.

B. Standard conditions

1. A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the SEIAA, Odisha 5 years in advance of final mine closure for approval.
2. No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.
3. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Odisha.
4. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
5. The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.
6. Mining shall be carried out as per the provisions outlined in the approved mining plan as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).
7. 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.
8. Digital processing of the entire lease area using remote sensing technique shall be

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carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office and SEIAA, Odisha.

9. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.

10. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.

11. Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.

12. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.

13. Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.

14. There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.

15. The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.

16. The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic

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parameters and allows only species adopted to that micro climate.

17. The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.

18. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working,mineral and OB dumps toprevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.

19. Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.

20. The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.

21. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

22. As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio

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Economic Development of the neighborhood Habitats which could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.

23. Provision 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.

24. Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.

25. 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.

26. The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

27. The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.

28. A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.

29. State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.

30. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.

31. The SEIAA, Odisha may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

32. 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.

33. The above mentioned stipulated conditions shall be complied in a time-bound manner. Failure to comply with any of the conditions mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

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ANNEXURE - B

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR M/S. FALCON REAL ESTATE PVT. LTD. FOR EXPANSION OF RESIDENTIAL BUILDING COMPLEX "FALCON TATVA" OVER TOTAL PLOT AREA: 15474.6477SQM WITH TOTAL BUILT UP AREA INCREASE FROM 94209.41 SQM TO 111088.53 SQM AT MOUZA - DUMDUMA,TAHASIL - BHUBANESWAR OF SRI SOUNIK KAJAL KUMAR DASH - 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 proponent shall obtain prior clearance from the Standing Committee of the National Board for Wild Life if the project will be located within any Eco-Sensitive Zone of Wild Life Sanctuary.

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.
7. The permission from competent authority will be obtained to discharge the excess storm water to drain if any. The proponent shall renovate the existing drain to accommodate the discharge and maintain it perennially.
8. Permission for construction of drain alongside the adjacent NH under construction for allowing the proponent to discharge the treated waste water as well excess runoff water during monsoon from NH Authority shall be obtained. The construction of drains shall be synchronized with the completion of the construction of the Housing Project.

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

9. As proposed, fresh water requirement from ground water shall not exceed 209 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.

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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. Rain water harvesting recharge pits of 18 nos. 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 drawl of water.
18. The proponent shall keep one bore well as standby domestic water source once municipal water supply is made available in the project area.

SOLID WASTE MANAGEMENT

19. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
20. 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.
21. 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.
22. 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.

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23. 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

24. Sewage shall be treated in STP of capacity 285 KLD. The treated effluent from STP shall be reused for flushing, landscaping, floor & car washing.

25. Excess treated water shall be discharged to the drain only after getting the permission from the concerned authority. The proponent shall renovate the existing drain to accommodate the discharge and maintain it perennially. To this effect the proponent has to give a legal affidavit before going for construction activity.

26. 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.

27. Separate large recharge pits shall be constructed inside the project area to accommodate the rainwater in case the housing project period and the CDP of the Govt. does not synchronize with reference to construction of road and drain.

28. No sewage or untreated effluent water would be discharged through storm water drains.

29. 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.

30. 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.

31. The proponent shall obtain permission from the concerned authority to discharge the liquid waste to any drain i.e. the competent authority of the drain and "Nala" before commencement of any activity at the project site.

ENERGY

32. 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.

33. 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.

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34. 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.

35. 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.

36. 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.

37. 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

38. 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, morram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, morram, 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.

39. 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.

40. **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.**

41. 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.

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42. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.

43. 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

44. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m^2 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. 3095 sqm (20% of total plot area) shall be provided for green area development.

TOP SOIL PRESERVATION AND REUSE

45. 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

46. 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

47. 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.

48. 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.

49. 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.

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50. A dedicated entry/exit and parking shall be provided for commercial activities.
51. Barricades shall be provided around project boundary.
52. Speed of the vehicles shall be restricted upto 15 kmph by erecting speed bumps at regular intervals at project site and proper signage shall be provided for guided vehicular movement and speed restrictions.
53. Parking shall be prohibited on the access road to the proposed project site.
54. Footpath shall be seamless with sufficient width.
55. No vehicles shall be allowed to stop and stand in front of the gate on main access.
56. A buffer of minimum 10 m shall be maintained between the entry/exit gate and the road to avoid traffic congestion.
57. The Traffic Management Plan prepared by the proponent shall be duly validated and certified by the State Concerned Competent Authority and shall have also their consent before implementation.

ENVIRONMENT MANAGEMENT PLAN

58. 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

59. 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.
60. A First Aid Room shall be provided in the project both during construction and operations of the project.
61. The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
62. 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

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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

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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 Environmental Clearance 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, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, 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, Govt. of India by E-mail.

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

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 proponent shall obtain prior clearance from the Standing Committee of the National Board for Wild Life if the project will be located within any Eco-Sensitive Zone of Wild Life Sanctuary.

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.
7. The permission from competent authority will be obtained to discharge the excess storm water to drain if any. The proponent shall renovate the existing drain to accommodate the discharge and maintain it perennially.
8. Permission for construction of drain alongside the adjacent NH under construction for allowing the proponent to discharge the treated waste water as well excess runoff water during monsoon from NH Authority shall be obtained. The construction of drains shall be synchronized with the completion of the construction of the Housing Project.

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

9. As proposed, fresh water requirement from ground water shall not exceed 120 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. Rain water harvesting recharge pits of 10 nos. 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 drawl of water.
18. The proponent shall keep one bore well as standby domestic water source once municipal water supply is made available in the project area.

SOLID WASTE MANAGEMENT

19. The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
20. 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.
21. 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.
22. 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.

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23. 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

24. Sewage shall be treated in STP of capacity 160 KLD. The treated effluent from STP shall be reused for flushing, landscaping, floor & car washing.
25. Excess treated water shall be discharged to the drain only after getting the permission from the concerned authority. The proponent shall renovate the existing drain to accommodate the discharge and maintain it perennially. To this effect the proponent has to give a legal affidavit before going for construction activity.
26. 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.
27. Separate large recharge pits shall be constructed inside the project area to accommodate the rainwater in case the housing project period and the CDP of the Govt. does not synchronize with reference to construction of road and drain.
28. No sewage or untreated effluent water would be discharged through storm water drains.
29. 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.
30. 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.
31. The proponent shall obtain permission from the concerned authority to discharge the liquid waste to any drain i.e. the competent authority of the drain and "Nala" before commencement of any activity at the project site.

ENERGY

32. 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.
33. 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.

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34. 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.

35. 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.

36. 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.

37. 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

38. 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, morram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, morram, 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.

39. 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.

40. **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.**

41. 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.

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42. For indoor air quality the ventilation provisions as per National Building Code of India shall be provided.

43. 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

44. No tree cutting/transplantation of existing trees has been proposed in the instant project. A minimum of 1 tree for every 80 m^2 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. 1952.35sqm (22.43% of total plot area) shall be provided for green area development.

TOP SOIL PRESERVATION AND REUSE

45. 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

46. 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

47. 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.

48. 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.

49. 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.

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50. A dedicated entry/exit and parking shall be provided for commercial activities.
51. Barricades shall be provided around project boundary.
52. Speed of the vehicles shall be restricted upto 15 kmph by erecting speed bumps at regular intervals at project site and proper signage shall be provided for guided vehicular movement and speed restrictions.
53. Parking shall be prohibited on the access road to the proposed project site.
54. Footpath shall be seamless with sufficient width.
55. No vehicles shall be allowed to stop and stand in front of the gate on main access.
56. A buffer of minimum 10 m shall be maintained between the entry/exit gate and the road to avoid traffic congestion.
57. The Traffic Management Plan prepared by the proponent shall be duly validated and certified by the State Concerned Competent Authority and shall have also their consent before implementation.

ENVIRONMENT MANAGEMENT PLAN

58. 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

59. 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.
60. A First Aid Room shall be provided in the project both during construction and operations of the project.
61. The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
62. 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

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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

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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 Environmental Clearance 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, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, 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, Govt. of India by E-mail.

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ANNEXURE- D

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR M/S JAGANNATH INDUSTRIAL AND LOGISTICS PARKS PRIVATE LIMITED FOR CONSTRUCTION OF PROPOSED WAREHOUSE WITH TOTAL BUILT-UP AREA: 32159.58 SQM ON IDCO PLOT NO-1, CORRESPONDING REVENUE PLOT NO. SABIK 269 (P), 270 (P), HAL - 269/4029 (P), 270(P), KHATA NO. - HAL-727/953, SABIK 807, 810 LOCATED IN VILLAGE - BANIPADA, TAHASIL - TANGI CHOUDWAR, DISTRICT - CUTTACK OF SRI ARUL MURUGAN - EC.

I. Statutory compliance:

1. 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.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the State Pollution Control Board, Odisha.
6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

II. Air quality monitoring and preservation

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for

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projects requiring Environmental Clearance shall be complied with.

2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and PM_{25}) covering upwind and downwind directions during the construction period.
4. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
5. 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, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
6. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
7. Wet jet shall be provided for grinding and stone cutting.
8. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
9. 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.
10. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
11. 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.
12. For indoor air quality the ventilation provisions as per National Building Code of India.

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III. Water quality monitoring and preservation

1. 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.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
4. 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, Bhubaneswar along with six monthly Monitoring reports.
5. 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.
6. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. 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.
8. 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.
9. 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.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.

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12. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
13. All recharge should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
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.
16. 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, Bhubaneswar along with six monthly Monitoring reports.
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% waste water to be installed. 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 Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
21. 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.

IV. Noise monitoring and prevention

1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone 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.

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2. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

1. 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.

2. Outdoor and common area lighting shall be LED.

3. 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.

4. 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.

5. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 3-5% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.

6. 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.

VI. Waste Management

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

2. Disposal of muck during construction phase shall not create any adverse effect on the neighboring 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.

3. 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.

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4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with adequate capacity must be installed.
5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. 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.
7. 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.
8. 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.
9. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm 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.
3. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. 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.

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VIII. Transport

1. A comprehensive mobility plan, as per MoUD 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.
   a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
   b) Traffic calming measures.
   c) Proper design of entry and exit points.
   d) Parking norms as per local regulation.
2. 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.
3. 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. 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.

IX. Human health issues

1. 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.
2. For indoor air quality the ventilation provisions as per National Building Code of India.
3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
4. Provision 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.
5. Occupational health surveillance of the workers shall be done on a regular basis.
6. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

1. The project proponent shall comply with the provisions contained in this Ministry's OM

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vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.

2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms /conditions. The company shall have defined system of reporting infringements /deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

XI. Miscellaneous

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.

2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

4. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

6. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities,

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commencing the land development work and start of production operation by the project.

7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

8. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF & CC).

9. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

10. The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

11. The SEIAA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

12. The Regional Office, MoEF&CC, Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.

13. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

14. Any appeal against this EC 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.

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