PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE, ODISHA HELD ON 29TH JANUARY, 2024

The SEAC met on 29th January, 2024 at 03:30 PM by Virtual mode (VC) through video conferencing in Google Meet under the Chairmanship of Sri Shashi Paul. The following members were present in the meeting.

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

CONSIDERATION OF OLD PROPOSALS (COMPLIANCE RECEIVED):

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

ITEM NO. 01

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. OU INFRA PROJECTS PRIVATE LIMITED FOR RESIDENTIAL APARTMENT PROJECT "9 BOULEVARD' OVER A BUILT-UP AREA 1,49,879.37 M^2 AT MOUZA-RAGHUNATHPUR, TEHSIL-BHUBANESWAR DISTRICT-KHURDA OF SRI SIDDHARTH SEKHAR MOHAPATRA- EC

1. This proposal is for Environmental Clearance of M/s. OU Infra Projects Private Limited for residential apartment project "9 Boulevard' over a built-up area 1,49,879.37m^2 At Mouza-Raghunathpur, Tahasil-Bhubaneswar District-Khurda of Sri Siddharth Sekhar Mohapatra.
2. **Category:** The project falls under category "B" or activity 8 (a)-Building & Construction Project under EIA Notification dated 14th September 2006 as amended from time to time.
3. **Project details:** The project was earlier granted Environmental Clearance for Plot area of 13,618.57 m^2 (3.365 acres) and Built-up area = 36,025.25 m^2 from (SEIAA), Odisha vide Reference No. 2587/SEIAA dated 15.11.2014. Further, the company name was changed from M/s M. J. Accretion Pvt. Ltd. to M/s. OU Infraprojects Pvt. Ltd. in year 2021. Subsequently, Transfer of Environmental Clearance was done through SEIAA, Odisha vide File No.: SIA/OR/MIS/299810/2023 dated 27.09.2023. Certified Compliance Report has been obtained from MoEFCC, IRO (Bhubaneswar) vide Letter No. 109-1147/EPE/ dated 30.08.2023. As a part of

proposed Expansion, the Plot area has become 19,929.30 m^2 (4.925 acre), and the total Built-up area will be 1,49,879.37 m^2.

4. **Location and connectivity**: The project is located at Mouza- Raghunathpur, P.S. Nandankanan, No.- 14,Tahasil- Bhubaneswar, District- Khurda, Odisha. The geo co-ordinates of the project isLatitude: 20°22'38.85"N and Longitude: 85°49'48.34"E. The nearest Highway isNH-16 which is 6 km in East direction from the project site, NH-316A is 6.8 km towards ESE direction, NH-316 is 8.8 km towards SSE direction, &Nanadakanan Road Site connecting road is adjacent to the project site in west direction. The nearest Railway Station being Bhubaneswar New Junction Station is about 0.5 km (East) away from the project site. Biju Patnaik International Airport is at 13.3 km (S) from project site.

5. **Bulidng details:** The project comprises of the following facilities: Residential Dwelling Units (528 nos.), Community Facilities and Swimming Pool.There will be two towers i.e., Block A = 3BHK +4BHK + 5BHK (180 Dwelling units), Block B = 3BHK +4BHK + 5BHK (348 Dwelling units) with Commercial and common amenity area. The maximum height of the Tower 103.5 m. The total plot area is 19,929.30 sqm and net plot area is 17,883.89 sqm. Total Built up area for the project will be 1,49,879.37sqm.

6. **Detailed area statement of the project:**

S. No.	Particulars	Existing (As per EC accorded) (m^2)	Expansion (m^2)	Post Expansion (m^2)
1	Total Plot Area	13,618.57 (3.365 Acre)	6310.73 (1.559 Acre)	19,929.30 (4.925 Acre)
2	Net Plot Area	13,101.28	4,782.61	17,883.89
3	Permissible Ground Coverage (@40% of net plot area)	5,240.512 (@40% of net plot area)	1,913.044	7,153.556 (@40% of net plot area)
4	Proposed Ground Coverage	4,860.12 (@37.1% of net plot area)	2,195.61 (@45.91% of net plot area)	7,055.73 (@39.45% of net plot area)
5	Permissible FAR	36,028.52 (@2.75 of net plot area)	71,274.82	1,07,303.34 (@6 of net plot area)
6	Proposed FAR	36,025.25 (@2.749 of net plot area)	70,997.01	**1,07,022.26** (@5.98% of net plot area)
	Residential FAR	35,214.04	70,890.11	1,06,104.15
	Commercial FAR	811.21	106.9	918.11
7	Non-FAR area	9,535.71	33,321.4	**42,857.11**
	Stilt area	4,466.21	9,702.62	14,168.83
	Basement area	5,069.50	13,670.31	18,739.81

	Service Area	NIL	9,888.83	9,888.83
	Club House Service Area	NIL	59.64	59.64
8	Built-up Area	45,560.99*	1,04,318.38	1,49,879.37
9	Landscape Area	2,725.70 (21% of the Net Plot area)	651.41	3,377.11 (@18.88 % of Net Plot Area)
10	Maximum Height of the Building (m)	49.50	54.0	103.50
11	No. of Dwelling unit	180	348	528

7. **Water Requirement and waste water generation:** The total water requirement will be met from Ground water source which is approx. 489 KLD. Total domestic water requirement is 474 KLD, out of which freshwater requirement is approx. 312 KLD& flushing water will 162 KLD.The project will generate approx. 412 KLD of wastewater. The wastewater will be treated in an onsite STP of 563 KLD capacity. The treated effluent will be reused for flushing & horticulture partly. Surplus treated effluent will be discharged to external sewer.

	Description	**Occupancy**	**Rate of water demand (LPCD)**		**Total Water Requirement (KLD)**		
A.	**Domestic Water**		**Fresh**	**Flushing**	**Fresh**	**Flushin**	**Total**
	• Residents	3,378	90	45	304.02	152.01	**456.03**
	• Staff (Maintenance, Communities & Commercial, etc.)	200	25	20	5	4	**9**
	• Visitors (Communities & Commercial, etc.)	612	5	10	3.06	6.12	**9.18**
					312.08 KLD say 312 KL	**162.13 KLD say 162 KLD**	**474.21 KLD say 474 KLD**
Total Domestic Water = 474 KLD							
B.	**Make-up water for Swimming Pool**	15.0 x 6.50 m			**1 KLD**		
C.	**Horticulture**	3,377.11 m^2	4 l/sqm		**14 KLD**		

Grand Total (A+B+C) = 489 KLD

Domestic Water Requirement	**474 KLD**
• Fresh	312 KLD
• Flushing	162 KLD
Waste water [@80% fresh + 100% flushing]	250 + 162= **412 KLD**
STP Capacity (20 % higher than waste water)	563 KLD

S. No	Description	Value as per earlier EC (KLD)	Expansion (KLD)	Total Quantity (EC accorded +Expansion) (KLD)
1.	Total water demand	182.7	306.3	489
2.	Domestic Wate Demand	150.6	323.4	474
3.	Fresh water	115.4	196.6	312
4.	Flushing water	50.2	111.8	162
5.	Waste water	132.48	279.52	412
6.	STP Capacity	150	+350	563

8. **Rainwater harvesting details**: Total of 8 Rainwater Harvesting pits are proposed for artificial ground water recharge.
9. **Parking Proposed**: Total parking proposed is 551(Basement)+461(Stilt)+198 (Surface) = 1,210 ECS
10. **Power Requirement:** The power supply will be supplied by State Electricity Board. The requirement load for the project will be 3,728 kVA. There is provision of 2 nos. of DG sets total 1500 kVA capacity (i.e. 2 x 750 KVA) for power back up. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.

	EC accorded	Expansion	Total (EC accorded + Expansion)
Power Requirement	1,460 kW	+2,268 kW	3,728 Kw
D.G sets	1 x 750 kVA	+1 x 750 kVA	1500 kVA (2 x 750 kVA)

S. No.	DESCRIPTION	SAVINGS (kVA)

1.	Solar based Lighting will be done in the common areas, stair cases, landscape areas, signage, entry gates and boundary walls etc. (5% from total power load) Norms for Rooftop PV systems Installation: Solar power back of a minimum generation capacity of 5% of the connected load (OR) 20 Watts/sq.feet on available roof space, whichever is less.	86.4 kVA
2.	LEDs will be used in all dwelling units.	85 kVA
3.	Outdoor and common are lighting shall be LED	15 kVA
Total Energy Saved		**186.4 kVA**
Total Power load = 3,728 kVA **Energy saved through various provisions =186.4 kVA TOTAL ENERGY SAVING = 10 %**		

11. **Solid waste generation**: The total solid waste generation will be 1,888 kg/day as per the following table.

S. No.	Description	Occupancy	Waste Generated (kg/capita/day)	Waste Generated (kg/day)
1.	**Domestic Solid Waste**			
	Residents	3,378	0.5	1689
	Staff	200	0.25	50
	Visitors	612	0.15	91.8
2.	Horticultural Waste (0.82 acre)	@ 0.2 kg/acre/day		0.243
3.	STP Sludge	Waste water x 0.35 x B.O.D difference/1000		56.83
Total Solid Waste Generation = 1,887.873 say 1,888 kg/day				

12. **Greenbelt**: Total green area measures 3,377.11 m^2 i.e. 18.88% of the net plot area which will include Plantation area=2,026.26 m^2 (11.33%) + Lawn area=1,350.85 m^2 (7.55%). No. of trees required 224 Nos. Total no. of trees proposed is 250 Nos.

13. **Project cost**: Total Project cost is INR 256 Cr. Including land and development cost. EMP cost includes capital cost of 81.5 lakhs and recurring cost of 24.85 lakhs.

EMP COMPONENT	EMP CAPITAL COST (INR LAKH)	EMP RECURRING COST (INR LAKH/YR)
Sewage Treatment Plant	50	6
Rain Water Harvesting Pits	15	3
Solid Waste Management	3.5	5
Environmental Monitoring	0	10
Green Area/ Landscape Area	3	0.75
Others (Energy saving devices, miscellaneous)	10	0.15

Total	81.5	24.85

14. **Environment Consultant: M/sGrass Roots Research & Creation India (P) Ltd.,** Noida along with the proponent made a presentation on the proposal before the Committee.

15. The SEAC in its meeting held on 20-11-2023 recommended the following:

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

i) Clarification regarding the discrepancy/mismatch in plot/built up area in previous EC and proposed application.

ii) Copy of document showing By-Laws that there should be 15% of total plot area for greenbelt. Further, the project proponent shall increase the greenbelt percentage up to 20%.

iii) Copy of permission from Chief Engineer, Drainage for treated wastewater discharge into the nearby drain.

iv) Copies of all clearances such as CTE, CTO from Pollution Control Board and other clearances obtained from the approved authorities.

v) Calculate the Parking Area in Percentage format.

vi) Detailed note on the Chronology of events from the previous proposal to the current proposed.

vii) Comparative table showing all environmental parameters of existing and proposed project.

viii) Status of the project in regard to how much has been constructed as per Previous EC and what is proposed as per Revised proposal.

ix) Distance certificate from Eco-Sensitive Zone (ESZ) and Sanctuary from concerned DFO.

x) Present status of the existing project.

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

i) Environmental settings of the project site.

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

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

iv) Road connectivity to the project site.

v) Drainage network at the site.

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

vii) Any other issues including local issues.

16. 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.	Clarifications regarding the discrepancy/mismatch in plot/built up area in previous EC and proposed	A clarification letter has been issued by Bhubaneswar Development Authority vide their letter no.: 22/30/BDA, Bhubaneswar

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	application.	(File No.: BPIB-1136/13) dated 05.07.2023 w.r.t. the built-up area and the same is attached as **Annexure-I.**
2.	Copy of document showing By-Laws that there should be 15% of total plot area for greenbelt. Further, the project proponent shall increase the greenbelt percentage up to 20%.	Revised landscape plan showing 20.19% of plot area i.e., 3611.37 m2 is attached as **Annexure- II.**
3.	Copy of permission from Chief Engineer, Drainage for treated waste water discharge into the nearby drain.	EIDP Report has been obtained from BDA dated 21.06.2023 which had Technical Committee comprising of Deputy Director (CE Planning - DoWR), Executive Engineer (Drainage Division DoWR), Director-I (North & Central Planning - DoWR) and Chief Engineer (Drainage - DoWR) and the same is enclosed as **Annexure-III.**
4.	Copies of all clearances such as CTE, CTO from Pollution Control Board and other clearances obtained from the approved authorities.	Consent to Establish has been obtained from SPCB, Odisha dated 11.09.2023. Copy of the same is attached as **Annexure- IV (a).** CGWA NOC has been obtained from competent authority vide application no. 21-4/5021/OR/INF/2023 dated 02.06.2023. Copy of the same is attached as **Annexure- IV(b)** NOC from Airport Authority of India has been obtained dated 10.04.2023 and copy of the same is attached as **Annexure-IV(c).** NOC from DFO has been obtained w.r.t. Nandankanan WLS and copy of the same is attached as **Annexure- IV(d)** Fire safety recommendation has been obtained from competent authority and copy of the same is attached as **Annexure-IV(e).** Structure stability certificate has been obtained from National Institute of Technology, Rourkela and copy of the same is attached as **Annexure-IV (f).**
5.	Calculate the Parking Area in Percentage format.	Details of parking area is enclosed as **Annexure- V**
6.	Detailed note on the Chronology of events from the previous proposal to the current proposed.	Chronology of the project is attached as **Annexure-VI.**
7.	Comparative table showing all environmental parameters of existing and proposed project.	Comparative details of EC obtained and the proposed expansion is attached as **Annexure-VII.**
8.	Status of the project in regard to how much has been constructed as per Previous EC and what is proposed as per revised proposal.	Current status of the project along with photographs is enclosed as **Annexure-VIII.**
9.	Distance certificate from Eco-Sensitive Zone (ESZ) and Sanctuary from	NOC from DFO has been obtained from competent authority and copy of the same

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	concerned DFO.	is attached as **Annexure- IV(d).**
10.	Present status of the existing project.	Current status of the project along with site photographs is enclosed as **Annexure-VIII.**
Site visit points		**(PP has submitted additional ADS)**
1.	Environmental settings of the project site.	ESZ boundary of Chandaka Dampara WLS is at the distance of 4 km towards west direction and ESZ boundary of Nandankanan WLS is at the distance of 1.17 km towards NW direction from the project site. DFO NOC has been obtained from competent authority and copy of the same is enclosed as **Annexure– IV(d).** There is no other ecologically sensitive location near the project site.
2.	Verify if the site is a flood prone area.	Project Site does not located in flood prone area.
3.	Construction activity if any started at the site and extent of construction activity.	Current status of the project along with photographs is enclosed as **Annexure- VIII**
4.	Road connectivity to the project site.	The connecting road is Nanadakanan Road which is adjacent to the project site. The Nearest Highway is NH-16 which is approx. 6 km in east direction from the project site, NH 316A is approx. 6.8 km (ESE) away, NH55 is approx. 11.5 km (NE) away from the project site.
5.	Drainage network at the site.	Waste water discharge plan showing drain connectivity is attached as **Annexure- IX.**
6.	Discharge point for discharge of treated water and distance of the discharge point from the project site.	Details provided above in point no. 15.
7.	Any other issues including local issues.	No other issues.

17. The proposed site was visited by the sub-committee of SEAC on 04.12.2023. Following are the observations of the sub-committee:

a) The Project site is located in Raghunathpur Bhubaneswar. The PP and Consultant were present. It is an ongoing project. The Layout plans were explained by the Project proponent and Consultant along with other associated documents. The site is connected to Nandankanan road and covered drain is existing in road side.

b) There is no green belt at present which needs to be developed for the project and it should be minimum 20% of area.

c) The PP has earlier obtained plan for built up area of about 45560 sq mt with FAR 36025 sq mt. But EC and Consent to establish was granted for 36025 sq mt (which seems to be a mistake). Meanwhile, there was change of ownership.

d) The new owner started construction for 4 blocks and applied for expansion for another 4 blocks with revision in initial 4 blocks. BDA in their revised approval has given for 40840.64 sq mt due to some land going in road expansion for the first 4 blocks or towers and total 1,49919.89 sq mt (including the new 4 blocks/towers).

e) Since the PP has constructed over 40, 000 sq mt approximately as informed. Following were sought from them:

i) Document with regard to their appeal for change of built-up area in initial EC and clarification obtained etc. Document is available in ADS.

ii) Actual construction in 1st 4 blocks/towers certified by a BDA Architect against approved revised plan from BDA.

iii) The CTE No.: 3117/RO-BBSR/NOC-2951 dated 11.09.2023 is for plot area of 13618.57 m^2 (Built up area 36025.25 m^2) for which EC was granted in 2014. Construction at the site has been done prior to obtaining CTE. Why the case cannot be considered as Violation?

iv) Permission of all statutory authority if not submitted. A chronology of various activities if not submitted. Document is available in ADS.

v) Permission to discharge excess storm and treated water to nearby existing drain with approval of drainage plan. Necessary approval for connecting excess water discharge from the site to the public drain is submitted.

vi) All other documents asked during presentation.

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

i) Actual construction in 1st 4 blocks/towers certified by a BDA Architect against approved revised plan from BDA.

ii) The CTE No.: 3117/RO-BBSR/NOC-2951 dated 11.09.2023 is for plot area of 13618.57 m^2 (Built up area 36025.25 m^2) for which EC was granted in 2014. Construction at the site has been done prior to obtaining CTE. Why the case cannot be considered as Violation?

iii) Permission of all statutory authority if not submitted.

ITEM NO. 02

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR GIRISOLA STONE QUARRY WITH PROPOSED EXCAVATION OF 5600 CUM/YEAR OF STONE OF TAHASILDAR CHIKITI HAVING AN AREA OF 20.510 HA. LOCATED AT KHATA NO: 897, PLOT NO: 1, 2, 3, 4, AT- GIRISOLA, TAHASIL - CHIKITI, DISTRICT- GANJAM OF TAHASILDAR, CHIKITI - EC

1. The SEAC in its meeting held on 20-11-2023 observed that mining lease area is covered with forest growth as seen in KML file. The SEAC decided to consider this proposal for EC after joint verification from forest officials regarding the forest growth and mining activity in proposed lease area.
2. The project proponent has submitted joint verification report which states that:
   (i) There is no forest growth in the proposed lease area.
   (ii) There is no valuable tree growth in the proposed lease area.
   (iii) There are no mining activities in the proposed lease area.

After detailed discussion, the SEAC decided to call for a detailed presentation for the proposal.

ITEM NO. 03

PROPOSAL FOR GRANT OF ENVIRONMENTAL CLEARANCE FOR BALIBARENI LATERITE STONE QUARRY OVER 8.50 AC OR 3.44 HA IN BALIBARENI VILLAGE UNDER BEGUNIA TAHASIL OF KHORDHA DISTRICT OF SRI RAJA KISHORE DASH - EC

1. The SEAC in its meeting dated 02.09.2022 recommended to grant EC valid from the date of EC accorded up to the lease period for the proposal with following additional conditions.

   i) Consent / NoC shall be obtained from the concerned BDO if village road is to be used for transportation. The said road shall also be maintained by the lessee.

   ii) In view of likely revision of DSR the mention of this deposit with final coordinates is to be ensured

   iii) Plantation programme to be completed within first two years and to be maintained in remaining years.

   iv) Depth of Mining as proposed should not be beyond 6m.

   v) Mitigation measures for flying Rock for safety be in place.

2. The proposal was placed in the meeting of SEIAA held on 13.12.2022 for consideration of EC. The Authority deliberated on the matter and observed the following:

   "The Tahasildar, Begunia vide letter no. 2025 dated 28.07.2022 has clarified that there were some illegal excavations earlier for which an amount of Rs. 13,41,000/- has been collected as penalty/royalty. Since it is a violation case after detailed deliberations, the Authority decided to referred back the proposal to SEAC for consideration of issue of ToR, if any, as per Step-3 (Page no. 06) of the OM no. F No. 22-21/2020-IA.III dated 07.07.2021."

3. In view of this Suo-moto declaration, the Authority decided that the SEAC may re-examined the proposal in the light of MoEF & CC, Govt. of India OM dated 07.07.2021 for any violation. The proposal has referred back to SEAC through online.

4. The SEAC in its meeting held on dated 14-02-2023 decided to take decision on the proposal after receipt of the following clarification from the Tahasildar. The Tahasildar has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
1.	The Tahasildar, Begunia vide letter no. 2025 dated 28.07.2022 has clarified that there were some illegal excavations earlier for which an amount of Rs. 13,41,000/- has been collected as penalty/royalty. Justify why this will not be treated as violation case.	As reported by the Tahasildar, Begunia, there were some illegal excavations before auctioning of this source during which an amount of Rs. 13,41,000/- was collected from the clandestine operators. The present successful bidder has not undertaken any sort of excavation after the auctioning of the source till date as the Quarry lease is yet to be executed in his favour and has not been done till date due to want of the applied EC. Further, it is clarified that the said amount was not collected from the specific laterite stone Quarry of Balibereni but from the entire jurisdiction of Beguina Tahasil as clarified by the Tahasildar, Begunia vide letter no 4017 dated 30.11.2023. The present successful auction holder of this Laterite stone Quarry of Balibereni has never been penalized as he has not undertaken any

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
		mining operation within the QL area and due to which this may not be treated under violation case. Related to this the Self Declaration Proforma – I duly signed is also submitted.

After detailed discussion, the SEAC reiterates its earlier recommendation, and SEIAA may take decision at their level in view of above compliance submitted by Project Proponent.

ITEM NO. 04

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. JAI PRAKASH HOSPITAL AND RESEARCH CENTRE PVT. LTD FOR REGULARIZATION OF B+G+5 HOSPITAL BUILDING &AMPHITHEATRE LOCATED OVER A BUILT-UP AREA 21992.01 SQM AT BRAHMANI TARANG, TAHASIL - LATHIKATA, DIST – SUNDARGARH OF SRI SANJAY BANSAL – EC.

1. This proposal is for Environmental Clearance of M/s. Jai Prakash Hospital and Research Centre Pvt. Ltd for Regularization of B+G+5 Hospital Building & Amphitheatre Located over an built-up area 21992.01 sqm At Brahmanitarang, Tahasil - Lathikata, Dist – Sundargarh of Sri Sanjay Bansal.
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 as its amendments.
3. **TOR details**: Terms of Reference was issued by SEIAA, Odisha vide letter No. 5145/SEIAA (File No. SIA/OR/MIS/74534/2022), dated 17.08.2022 for the proposed project.
4. **Location and connectivity:** The site is located at Brahmanitarang, P.S - Brahamanitarang, Tahasil - Lathikata, Dist. - Sundargarh, Odisha. The Geographical co-ordinate of the project site is: Latitude - 22°13'28.78"N & Longitude - 84°47'48.64"E. The project site is well connected with National Highway-143 is about 0.26 Km away from the project site. The nearest railway station is Panposh Railway station at a distance of about 1 Km in East direction. The nearest airport is Rourkela Airport at a distance of about 8.00 Km in North-East direction from project site. The site is coming under which Rourkela Development Authority.
5. The Building Plan of M/s Jai Prakash Hospital & Research Centre Pvt. Ltd. over 1,99,821.17 sq. feet (B+G+3+Service) was approved on 24.04.2015.
6. List of Statutory Clearances:
   a. Consent to Establish was granted by SPCB, Odisha on 12.10.2018, vide letter no. 2629 for 307 bedded hospital.
   b. Consent to Operate was granted by SPCB, Odisha on 26.04.2019, vide letter no. 1397 for 307 bedded hospital, which is valid upto 2023.
   c. Authorisation under Biomedical Waste Rule, 2016 was granted by SPCB, Odisha on 15.05.2019 vide letter no. 4621/SPCB/Authorization (Biomedical Waste), which is valid upto 31.03.2023 for 307 beds.
7. The total plot area is 16895.6 sqm with total built-up area 26883.17 sq.m.
8. **Area Statement:**

Particulars	Existing	Expansion	Total
Hospital Bed	307	218	**525**
Plot Area	15195.94 SQ.M	1699.66 SQ.M	16895.6 SQ.M
Built up Area	21992.01 SQ.M	4891.16 SQ.M	26883.17 SQ.M
Total FAR Area	19957.08 SQ.M	4496.26 SQ.M	24453.34 SQ.M
Basement Parking	1282.78 SQ.M	--	1282.78 SQ.M
Stilt Parking	6547.96 SQ.M	--	6547.96 SQ.M
Total Parking Area	7830.74 SQ.M	--	7830.74 SQ.M
Height of the Building	--	--	30.7 m
Water Requirement	163.0 KLD	77 KLD	**240.0 KLD**
Bio-medical Waste	460.0 Kg/day	327.0 Kg/day	**787.0 Kg/day**
Solid Waste Generation	383 Kg/day	172 Kg/day	**555 Kg/day**
Power Requirement	--	1782 KVA	**1782 KW**
DG set	1x495 KVA	750 KVA	**1740 KVA**
Project Cost	--	93 Crores	**93 Crores**

9. The total population of project after proposed will be 2,020 persons.
10. **Water requirement**: Fresh make up of 240.0 m3/day will be required for the project which will be sourced from Ground Water.
11. **Wastewater details**: Total waste water generated from the hospital building is 291.7 KLD which is treated in STP of Capacity 300 KLD & ETP of Capacity 29 KLD.
12. **Rainwater harvesting details**: Rain Water harvested through 13 nos. of Rain Water recharging pits. Total 179.0 cum Rain Water is harvested through 13 nos. of recharge pits.
13. **Parking Requirement**: Total parking area provided is 7830.74 Sq.mt. and total 302 nos. of ECS and location of parking area is Basement & Open.
14. **Fire fighting Installations**: Fire Fighting will be provided as per NBC Norms.
15. **Power Requirement**: Total Power requirement of the proposed building is 1782.0 KW, Source is NESCO, 2x495 & 1x750 KVA DG Sets are provided. Total 95.88 KW Solar Power Generation which is 5.3% of total power required in project.
16. **Solid waste generation**: The total solid waste generation and Bio-medical waste generation is as follows:

Solid Waste Generation

Sl. No.	Category	Counts (heads)	Waste generated (kg/day)
For Existing 307 beds			
i)	Domestic	450@ 0.45 kg/day/person	203 kg/day
ii)	Floating/ Visitor	1200 @ 0.15 kg/day/person	180 kg/day
For Proposed 218 beds			

i)	Domestic	250@ 0.45 kg/day/person	112 kg/day
ii)	Floating/ Visitor	400@ 0.15 kg/day/person	60 kg/day
Total Waste Generation			**555 kg/day**

Bio-Medical Waste Generation

Sl. No.	Category	Counts (heads)	Waste generated (kg/day)
i)	Patient 307 beds	307 @ 1.5 kg/day/bed	460 kg/day
ii)	Patient 218 beds	218 @ 1.5 kg/day/bed	327 kg/day
Total Waste Generated			**787 kg/day**

17. **Greenbelt**: Green belt is developed over an area of 3379.08 sqm which is 20% of the total plot area. Total 212.0 nos. of plants to be planted and 3 tier plantations.
18. **Project cost**: The estimated project cost is 93.0 Crores and cost for EMP is 4.17 Crores.
19. **Violation Details**: The total area of the proposed project is 21992m^2 (more than 20000m^2) for which they had not obtained Environmental Clearance.
20. **Environment Consultant**: The Environment consultant **M/s.Centre for Envotech & Management Consultancy Pvt. Ltd, Bhubaneswar**along with the proponent made a presentation on the proposal before the Committee.
21. The SEAC in its meeting held on dated 18-10-2023 recommended the following:

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

i) Document certified by the Chartered Accountant regarding total project cost (Existing + Expansion) and annual turnover.

ii) The EMP cost submitted needs to be revised taking into consideration the remedial measures for ETP & STP

iii) Copy of microbiological analysis report of the wastewater generated from the hospital.

iv) Copy of permission obtained from the competent authority for drawl of Ground water/Surface water.

v) Calculate the total wastewater generation & copy of revised details of ETP and STP as installed ETP & STP needs to be upgraded to handle the enhanced quantity of wastewater.

vi) Re-evaluate the rainfall data and maximum value should be taken into consideration.

vii) Estimation of total amount of the solid waste to be generated.

viii) The proponent shall justify the violation that is why there is delay in applying for Environmental Clearance.

B. **The proposed site shall be visited by the local SEAC members with the help of officer of Regional Office, SPC Board, Rourkela to verify the followings**

i) Environmental settings of the project site.

ii) Extent of construction activity.

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) Greenbelt area.

vii) Status of implementation of pollution control measures and other remedial measures as indicated in the cost for damage assessment

viii) Any other issues including local issues

22. The Project Proponent has furnished the compliance as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
i)	Document certified by the Chartered Accountant regarding total project cost (Existing + Expansion) and annual turnover.	Total cost of the Existing project is Rs. 49.32 Crores & the project cost of the expansion project is 43.85 Crores. Chartered Accountant (CA) certificate is attached in **Annexure-1**.
ii)	The EMP cost submitted needs to be revised taking into consideration the remedial measures for ETP & STP	The remedial measures cost for ETP & STP is Rs. 2.5 Lakhs. This used for only maintenance of ETP & STP units.
iii)	Copy of microbiological analysis report of the wastewater generated from the hospital.	Microbiological analysis report of waste water generated from Hospital is attached in **Annexure-2**.
iv)	Copy of permission obtained from the competent authority for drawl of Ground water/Surface water.	Ground water clearance has been obtained from CGWA vide NoC No. CGWA/NOC/INF/REN/1/2023/7716, dated 28.04.2023. Ground Water clearance copy is attached in **Annexure-3**.
v)	Calculate the total wastewater generation & copy of revised details of ETP and STP as installed ETP & STP needs to be upgraded to handle the enhanced quantity of wastewater.	Total waste water generated from the hospital is 291.75 KLD which is treated in Sewage Treatment Plant (STP) of capacity 300 KLD and Total 29 KLD waste water is generated from Laboratory & Blood Bank which is treated in separate Effluent Treatment Plant (ETP) of capacity 29 KLD. Detail water balance is attached in **Annexure-4**.
vi)	Re-evaluate the rainfall data and maximum value should be taken into consideration.	We have considered maximum rainfall of the area is 150mm/hr & the total runoff available in the area is 1249.35m^3. So total 09 nos., of rain water harvesting pits is provided for ground water recharging. Detail rain water harvesting calculation is attached in **Annexure-5**.
vii)	Estimation of total amount of the solid waste to be generated.	Total 555kg/day Solid Waste is generated from the hospital and total 787 kg/day Bio-medical waste is generated.
viii)	The proponent shall justify the	➢ We have received CTE for

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
	violation that is why there is delay in applying for Environmental Clearance.	18563.99 sqm built up area where EC is not required. ➢ Further due to change in project we have again applied for received CTE for 21992.01 sqm built up area and it was issued without any EC condition. ➢ Further CTO was issued for 21992.01 sqm built up area and the EC condition was not mentioned. ➢ Finally when we applied for occupancy certificate from RDA then RDA asked for EC and subsequently we have applied for EC as received from RDA. ➢ However there is a lack of information from the Hospital authority, henceforth we will follow the Environmental Rules & regulation of Pollution and Environmental mitigation measures. So this violation is required to condone.

23. The SEAC observed the following:

Since, this is a violation case as the PP submitted as per provisions of SOP dtd. 7th July, 2021 and OM dtd. 28th January, 2022. It is mentioned that the Hon'ble Supreme Court has stayed the operation of said OM of SOP dtd. 7th July, 2021 and OM dtd. 28th January, 2022. Hence, the proposal may be returned to SEIAA, Odisha for further action.

ITEM NO. 05

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. DNT INFRASTRUCTURES PRIVATE LIMITED FOR DEVELOP A 2B+G+19 STORIED RESIDENTIAL APARTMENT BUILDING OVER AN BUILT-UP AREA 42367.32 SQM LOCATED AT PLOT NO. 817/ 3417, KHATA NO.-890/99, IN MOUZA - SUNDARPUR, KHORDHA, BHUBANESHWAR OF SRI NIKUNJA KISHORE DAS - EC

1. This proposal is for environmental clearance of M/s. DNT Infrastructures Private Limited to develop a 2B+G+19 Storied Residential Apartment Building over a built-up area of 42367.32 sqm located at plot no. 817/ 3417, Khata no.-890/99, in Mouza - Sundarpur, Khordha, Bhubaneshwar of Sri Nikunja Kishore Das.
2. **Category**: The project requires prior Environmental Clearance under the provisions of EIA Notification, 2006 and subsequent amendment and falls under Category B of activity 8(a)-Building & Construction projects.
3. **Location and connectivity**: Project site is located at Plot no. 817/3417, Khata no.-890/99, in Mouza-Sundarpur, Khordha, Bhubaneshwar, Orissa. The Geographical coordinates of the project site are 20°21'12.7"N and 85°46'17.4"E and fall within Toposheet no. 73H/15. Site is flat land with average elevation of 39.92 m AMSL. Project site is well connected with road and it also connects

Khandagiri-Chandaka road at a distance of 0.41 km, towards W. Site connects to NH-16 which is 8.36 km towards South direction. Site connects to SH 60 at 12.88 km in E direction. Bhubaneshwar new junction railway station is 7.34 km away in NE direction. Biju Patnaik International Airport is at 12.19 km in S.

4. **Area Details:** The total plot area of the project site is 6029.76 sqm (0.602 ha./1.49 acres). Project involves development of 152 nos. of residential apartments. Built-up area of project after development will be approx. 42367.32 sqm.

Table: Area Summary

Sl. No.	Description	Total (SQ M)
1.	Plot Area	6029.76
2.	Proposed Ground Coverage (26.99 % of total plot area)	1627.61
3.	FAR area (@5.31)	31935.44
4.	NON FAR area	10431.88
5.	Built-up Area	42367.32
6.	Green Area (33 % of plot area)	1945.64
7.	Open Parking area (@ 4.50 % of plot Area)	271.87
8.	Open/Amenities (52.97 % of the plot area)	3225.82
9.	Height	62.80
10.	No. of Dwelling Units	152

5. **Water requirement: Revised Water Balance has been submitted in ADS** - Total water requirement is **84 KLD**, out of which domestic water requirement is **71 KLD** (**Freshwater requirement** - 50 KLD + **Recycled Water** - 21 KLD). Wastewater generation – 61KLD treated in STP of capacity 100 KLD. Treated water from the STP – 55 KLD will be used for flushing (21 KLD), fire fighting (1 KLD), DG cooling (4 KLD) and horticulture purpose (8 KLD) and discharge to drain – 21 KLD (Non monsoon period) and 29 KLD (Monsoon period).

6. **Previous Water Balance submitted in EIA & Presentation** - Total water requirement during operation phase is 103 KLD out of which domestic water requirement is 95 and freshwater requirement is 65 KLD. Source of water during operation phase will be ground water.

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement(KLD)
Domestic					
Residents	684	135	92	64	28
Staff	34	45	2	0.6	1.4
Visitors	68	15	1	0.7	0.3
Total Domestic Water Demand			**95**	**65**	**30**
Landscape	1945.64 sq.m	3 ltr/sqm	3	-	3
Fire Fighting	-	-	1	-	1
DG cooling	500 KVA (1*500)	0.9 l/kVA/hr	4	-	4

Total		-	103	65	38

7. **Wastewater generation**: Sewage generation from the site is expected to be 89 KLD which will be treated in STP of capacity 100 KLD proposed to be constructed at the site. Treated water from the STP will be used for flushing, fire fighting, DG cooling and horticulture purpose.
8. **Rainwater harvesting**: Storm water drainage system will be provided at the site for channelizing storm water and prevents local flooding. Covered storm water drains will be provided at the site. Run-off from the site will be collected and recharged into ground through 18 nos. of RWH pits for harvesting 112320 liters.
9. **Parking detail**: Total Parking area is 10040.05 sq.m. Adequate parking will be provided to accommodate the expected vehicles during operation phase of the project in line with the requirement of Local Building by Laws.
10. **Power requirement**: Maximum power demand for the project during operation phase is estimated to be 1500 kVA. Source of power will be TPCODL. DG sets of Total 500 KVA will be provided as power back-up during power failure. The height of the DG Stacks will be 6 meter above building height. Provision of Solar power for lighting and water heating is there.
11. **Solid waste generation**: During operation phase, waste comprise of municipal waste. It is estimated that approx. 370 kg per day of waste (0.5 kg per capita per day for the residents, 0.15 kg per capita per day for the visitor. 0.25 kg per capita per day for the staff members, whereas 0.2 kg/acre/day is considered for landscape waste) to be generated from project site. STP sludge expected to generate is approx. 8 kg/day.

S. No.	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non-Recyclable(kg/day)
a)	Residents	684	0.5	342	274	68
b)	Staff	34	0.25	9	7.2	1.8
c)	Visitors	68	0.15	10	8	2
d)	Landscape waste	0.22 acres	0.2 kg/acres	1	1	-
e)	**Domestic Municipal waste generated**			**362**	**290**	**72**
f)	STP sludge	100 KLD	--	8	6	2
Total Waste Generated				**370**	296	74

12. **Greenbelt: Revised Greenbelt as submitted in ADS - Total Plot Area-6010.52 sq.mt. Provided Greenbelt-1262.20 sq.mt (21% of total plot area).**
13. **Previous Greenbelt submitted in EIA & Presentation** Green area will be provided in total area of 1945.64 sq m (33 % of plot area) which will enhance the beauty of the site and help combat air and noise pollution. The plant species will be selected on the basis of Guidelines for Developing

Green Belts, CPCB March 2000.Number of trees required is 1 tree/80 sq.m. of plot area which comes to 75 nos.

14. **Project Cost**: Total cost of the project is INR 99 Crores. EMP cost includes capital cost of 42 lakhs and recurring cost of 19 lakhs.

15. **Environment Consultant**: The Environment consultant **M/s P and M Solution., Noida, Uttar Pradesh** along with the proponent made a presentation on the proposal before the Committee.

16. The SEAC in its meeting held on dated 14.02.2023 recommended the followings;

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

    a) Certificate from the concerned DFO regarding distance of proposed project from Chandaka Dampara Wildlife Sanctuary and its Eco Sensitive Zone as well as Nandan Kanan Sanctuary and its' Eco Sensitive Zone.

    b) Revised surface layout w.r.t location of DG set and Stack including calculations of stack height.

    c) Detailed drainage plan, internal drainage details, drainage permission with supporting documents and NOC for drainage from concerned authority.

    d) Revised water balance for both monsoon and non-monsoon season.

    e) Revised solid waste management plan.

    f) Traffic study report vetted by reputed institute.

    g) Increase the peripheral greenbelt with minimum of 20% of total plot area.

    h) Details of renewable energy (Solar Energy) along with its generation, total power consumption, PV cell capacity.

    ii) **The proposed site shall be visited by Sub-Committee of SEAC to verify the followings;**

    a) Environmental settings of the project site.

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

    c) Road connectivity to the project site.

    d) Drainage network at the site.

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

    f) Any other local issues.

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

    a) PP was present. No construction initiated at the project and the site is clean.

    b) Road and Drain is available in front of the land at road side.

    c) Permission needs to be obtained from PWD or the appropriate authority to discharge excess treated water. However, PP needs to attempt for ZLD.

d) No trees planted; thus, green belt development is necessary as per norm.

e) All documents asked during presentation to be submitted.

18. 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
a)	Certificate from the concerned DFO regarding distance of proposed project from Chandaka Dampara Wildlife Sanctuary and its Eco Sensitive Zone as well as Nandan Kanan Sanctuary and its' Eco Sensitive Zone.	DFO certificate is attached as **Annexure I.**	DFO, Chandaka Wildlife Division certified that Mouza Sundarpur is not coming within Eco-sensitive zone of Chandaka Dampara Wildlife Sanctuary. Certificate from the concerned DFO, Nandan Kanan Sanctuary and its' Eco Sensitive Zone has not been submitted.
b)	Revised surface layout w.r.t location of DG set and Stack including calculations of stack height.	Surface layout plan showing the DG set location is attached as **Annexure II.**	Only surface layout is submitted showing location of DG sets. Stack including Calculations of stack height is not submitted.
c)	Detailed drainage plan, internal drainage details, drainage permission with supporting documents and NOC for drainage from concerned authority.	Drainage plan, Internal drainage plan is attached as **Annexure III.** Application for NOC is attached as **Annexure IV.**	Drainage map submitted both in layout and Google map. Application for NOC for drainage from concerned authority has been submitted by the PP. To be added as specific condition.
d)	Revised water balance for both monsoon and non-monsoon season.	Revised water balance is attached as **Annexure V.**	submitted
e)	Revised solid waste management plan.	**Solid waste management plan.** 1. The solid waste will be segregated at source & collected. 2. Adequate number of colored bins (green, white & Black) 19 approx. 10no. separate for bio-degradable, non-biodegradable and Hazardous waste are	-

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		proposed to be provided at the strategic location within site. **Type of Waste:** A. Organic waste/ Bio-degradable: (Waste vegetable, food etc.) – will be composted will be used as Manure. B. Inorganic waste/Non-Biodegradable: Metals, plastics, polythene bags, glass etc. – will be disposed to govt. or SPCB approved third party vendors. C. The Hazardous waste generated will be managed as per the Hazardous and other Wastes (Management and Tran's boundary Movement) Rules, 2016. D. Horticultural Waste is composted and used for gardening purpose. **Management plan for Pest Control due to the generation of Solid waste:** 1. Waste disposal units should be covered and sealed. 2. Waste disposal area should be clean and disposal process should be done on the same day to maintain the hygiene and to avoid the collection of pest. 3. Install insect traps if required	

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
		4. Use of physical, chemical and biological methods to control pest.	
f)	Traffic study report vetted by reputed institute.	Traffic study report vetted by reputed institute is attached as **Annexure VI**.	Traffic study report vetted by KIIT, BBSR concludes after 10 years, the LOS found to be 'B' with or without project.
g)	Increase the peripheral greenbelt with minimum of 20% of total plot area.	Peripheral greenbelt showing 20% green belt area of total plot area is attached as **Annexure VII**.	Total Plot Area-6010.52 sq.mt Required Peripheral Greenbelt 20% of total plot area Provided Greenbelt-1262.20 sq.mt (21% of total plot area).
h)	Details of renewable energy (Solar Energy) along with its generation, total power consumption, PV cell capacity.	Required solar roof top system = 500 sq.mt Required Solar Water Heating System = 100 LPD/ single flat Total Provided Solar Water Heating System 15200 LPD/152 flat renewable energy (Solar Energy) plan is attached as **Annexure VIII.**	Detailed Calculation has not been submitted in terms of percentage of renewable energy contributed to total power demand. However, layout submitted.

19. The SEAC in its meeting held on dated 19-06-2023 decided to take decision on the proposal after receipt of the following information / documents from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	Certificate from the concerned DFO, Nandan Kanan Sanctuary and its' Eco Sensitive Zone has not been submitted.	We have already submitted the certificate issued from DFO, chandaka that our zone is not coming within Eco-sensitive Zone of Chandaka – Dampara Wild Life Sanctuary and Nanadankanan Zoo.	The PP has submitted regarding Chandaka – Dampara Wild Life Sanctuary and there is no mention of NOC of DFO from Nandan Kanan Sanctuary.
b)	A calculation of stack height of DG set as asked has not been submitted.	We are submitting the calculation sheet of the Stack height of DG.	Submitted and height is 69meter.
c)	Detailed Calculation has not been submitted in terms of percentage of	Detailed calculation of percentage of Renewable Energy contributed to total	Solar Installation details is not clear.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	renewable energy contributed to total power demand.	power demand is attached herewith as an enclosure.	
d)	RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.	-------	Not submitted
e)	Source of water for use during construction phase.	------	Not submitted

20. The SEAC in its meeting held on dated 18-08-2023 decided to take decision on the proposal after receipt of the following information / documents from the proponent: The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	Total Solar power installation in kilowatt and its contribution to total power demand.	Clarification against the same: Dear Sir, detailed calculation of percentage of Renewable Energy contribution to total power demand is attached herewith as an enclosure.	Solar Based Lighting will be done in the common areas, signages, entry gates and boundary walls etc.=73.32kVA
b)	RL of the bottom of the rainwater discharge pit as well as RL of ground water table during rainy and summer season.	------	Not submitted
c)	Source of water for use during construction phase.	-------	Not submitted
d)	Certificate from Deputy Director Nandankanan regarding ESZ.	Clarification against the same: Dear Sir, we have already submitted the certificate issued from DFO, Chandaka that our zone is not coming within Eco-Sensitive Zone of Chandaka- Dampara Wild Life Sanctuary and Nandankanan Zoo.	Copy Submitted

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

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

ii) Source of water for use during construction phase.

ITEM NO. 06

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S. ACREPLEX REALITY PRIVATE LIMITED FOR RESIDENTIAL PROJECT OVER AN AREA 181539.58 SQ.M AT MOUZA UTTARMUNDAMUHAN, TAHASIL – JATANI, DISTRICT – KHURDHA OF SRI SHASHIKANT BARIK– EC

1. This proposal is for Environmental Clearance of M/s. Acreplex Realty Private Limited for Residential Project over an area 181539.58 sq.m at Mouza Uttarmundamuhan, Tahasil – Jatani, District – Khurdha of Sri Shashikant Barik.

2. **Category**: This project falls under Category "B", Project or Activity 8(b) – Townships and Area Development projects as per EIA Notification dated 14th Sept, 2006 as its amendments.

3. **TOR details**: Terms of Reference was issued by SEIAA, Odisha vide File No. SIA/OR/INFRA2/447018/2023 dated 06.11.2023 for the proposed project.

4. **Location and connectivity**: The proposed project is located at Plot No. 419,437/ 1078, 425, 440, 422, 423/2294, 421, 420, 414, 441, 426/4153, 430/4152, 426/3487; 426/4139, 426, 426/1203, Mouza – Uttarmundamuhan, Tahasil – Jatani, District – Khurdha, Odisha The geographical co-ordinates of project site are 20°13'17.87"N and 85°43'28.94"E and Kisam of land is Gharabari. The nearest highway is NH-57 is 10 km towards SW direction, NH-16 is 0.20 km towards N direction, NH-316 is 13 km towards E direction, & SH-13 is 7 km towards S direction. The nearest Railway Station being Bhubaneswar Railway Station & Retang Railway Station are about 13 km (ENE) & 5 km (ESE) away from the project site. Biju Patnaik International Airport is at 10 km (ENE) from project site. Bhargavi River is 14Km I from project site. Daya River is 9.8 Km (SE) of project site. Daya canal is 7 Km I of project site. Eco sensitive Zone of Chandaka Dampara Wildlife Sanctuary is 5.90 km.

5. Total Plot area measures 23,318.25 m^2 and the proposed built-up area is 1,81,539.58m^2.

6. There will be a residential tower of 1008 dwelling units with swimming pool and other commercial facilities. The maximum height of residential tower will be 113.95 m.

7. **Area Statement:**

S. No.	PARTICULARS	AREA (sq.m.)
i)	Total plot area	23,318.25
ii)	Permissible Ground coverage (@40% of plot area)	9,327.3
iii)	Proposed Ground coverage (@30% of the plot area)	6993.16
iv)	Permissible FAR (@7.0 of the Net plot area)	1,63,227.96
v)	Proposed FAR (@ 5.43 of Net plot area)	1,26,672.59
vi)	Non-FAR area	54,866.99
vii)	**Total Built-up Area**	**1,81,539.58**

8. The total population of project after proposed will be 7711 persons.

9. **Water requirement**: The total water requirement will be met through Bore well which is approx.. 919 KLD, out of which total domestic water requirement is 872 KLD. The total fresh water requirement is approx.. 596 KLD.

10. **Wastewater details:** The project will generate approx.. 757 KLD of wastewater. The wastewater will be treated in an onsite STP of 757 KLD capacity. The treated effluent will be reused for flushing and horticulture. Surplus treated effluent will be discharged to external sewer.

11. **Rainwater harvesting details:** Total 10 nos. of Rainwater harvesting pits of 12m^3 capacity will be constructed at different locations for storage of rain water.

12. **Parking details:** Total parking area proposed for the project is 38,331 m^2.

13. **Power Requirement:** The requirement load for the project will be 4558 kVA. The power supply will be supplied by State Electricity Board. There is provision of 3 nos. of DG sets total 2375 kVA

(1 x 1250 + 1 x 625 + 1x 500 kVA) capacity for power back up. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.

14. **Solid waste generation**: The total solid waste generation will be 3472kg/day for the proposed project.
15. **Greenbelt:** Total green area measures 5074.98m^2 i.e. 21.8% of the net plot area. No. of trees required = 1 tree/80 sqm of plot area 23,318.25/80 =291 nos. Total no. of trees proposed = 291 trees.
16. **Baseline Study** – The baseline environment study for the project has been done during Post monsoon season (March to May, 2023) by an NABL accredited and MoEFCC approved lab (GRC India Training & Analytical Laboratory).
17. **Project cost**: Total estimated cost of the proposed project is Rs. 500 Cr. Including land and development cost.
18. **Environment Consultant**: The Environment consultant **M/s. Grass Roots Research & Creation India (P) Ltd., Noida** along with the proponent made a presentation on the proposal before the Committee.
19. The SEAC in its meeting held on 02-12-2023 recommended the following:

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

i) Since, the project site is a lowland area, the proponent has to take adequate steps for drainage discharge of storm water.

ii) Revisit the calculation for Rainwater harvesting pits and design accordingly to store the total rain water.

iii) In the standard TOR point no.16 the nearest railway station to the project site is mentioned as Bhubaneswar Railway Station. However, the nearest major railway station to the site is Khordha Road railway station.

iv) Revisit the water balance w.r.t. consumption and waste water generation.

v) Structural stability certificate vetted by institute of repute.

vi) Traffic Study report to be vetted by institute of repute.

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

i) Environmental settings of the project site.

ii) Extent of construction activity.

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) Greenbelt area.

vii) Any other issues including local issues

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

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Since, the project site is a lowland area, the proponent has to take adequate steps for drainage discharge of storm water.	In order to avoid water logging at site due to Storm Water, we have kept the level of our site 1.4 m above the abutting road level.	-
2.	Revisit the calculation for Rainwater harvesting pits and design accordingly to store the total rain water.	The revised rainwater harvesting calculations are enclosed as **Annexure-I.**	Revised 10 RWH tanks of 99 m^3 capacity each are proposed to collect rainwater taking into consideration mean monthly rainfall 160mm
3.	In the standard TOR point no.16 the nearest railway station to the project site is mentioned as Bhubaneswar Railway Station. However, the nearest major railway station to the site is Khordha Road railway station.	We have corrected the nearest Railway Station as Khordha Road railway station which is at 7.75 km (SSW) away from the project site.	-
4.	Revisit the water balance w.r.t. consumption and waste water generation.	The revised water balance is enclosed as **Annexure-II.**	In revised water balance, 333KLD of waste water will be discharge to drain in summer and 351KLD of treated water in Monsoon. Whereas, in previous water balance submitted during presentation, 363KLD of waste water in summer and 374KLD in Monsoon was calculated/proposed to be discharge into the nearest drain.
5.	Structural stability certificate vetted by institute of repute.	Structural Stability certificate vetted by IIT, Bhubaneswar is enclosed as **Annexure-III.**	-----
6.	Traffic Study report to be vetted by institute of repute.	Traffic Study report vetted by KIIT is enclosed as **Annexure-IV.**	Only the forecasted (for next 10years) V/C has been calculated as LOS C
The proposed site shall be visited by Sub-Committee of SEAC to verify the followings			
1.	Environmental settings of the project site.	The project site is devoid of any trees. **10 km study area:** Chandaka Dampara WLS is 6.8 km away and project site is 0.1 km outside the	Additional ADS submitted by PP.

<table>
<tr><th>Sl. No.</th><th>Information Sought by SEAC</th><th>Compliance furnished by the proponent</th><th>Views of SEAC</th></tr>
<tr><td></td><td></td><td>ESZ of Sanctuary.
Following forests and rivers are present in study area –
<table><tr><th colspan="3">Forests</th></tr><tr><th>S. No.</th><th>Forests</th><th>Distance and direction</th></tr><tr><td>1.</td><td>Barunai RF</td><td>9 km (SW) from the project site</td></tr><tr><td>2.</td><td>Medhashala RF</td><td>5 km (ESE) from the project site</td></tr><tr><td>3.</td><td>Ghatika PF</td><td>5.5 km (NE) from the project site</td></tr></table>
<table><tr><th colspan="3">Rivers</th></tr><tr><th>S. No.</th><th>River</th><th>Distance and direction</th></tr><tr><td>1.</td><td>Bhargavi River</td><td>14Km (E) of project site</td></tr><tr><td>2.</td><td>Daya River</td><td>9.8 Km (SE) of project site</td></tr><tr><td>3.</td><td>Daya canal</td><td>7 Km (E) of project site.</td></tr></table></td><td></td></tr>
<tr><td>2.</td><td>Extent of construction activity.</td><td>There is no construction at site till date.</td><td>-----</td></tr>
<tr><td>3.</td><td>Road connectivity to the project site.</td><td>The project site is well connected through NH-16 (approx. 0.2 km in North direction)</td><td>-----</td></tr>
<tr><td>4.</td><td>Drainage network at the site.</td><td>The surplus treated water from STP will be discharged to the nala adjacent to project site. The permission for discharge & drainage plan are enclosed as Annexure- V.</td><td>Copy submitted</td></tr>
<tr><td>5.</td><td>Discharge point for discharge of treated water and distance of the discharge point from the project site.</td><td>The surplus treated water from STP will be discharged to the nala adjacent to project site. The permission for discharge & drainage plan are enclosed as Annexure- V.</td><td>-do-</td></tr>
<tr><td>6.</td><td>Greenbelt area.</td><td>As per suggestion of SEAC, we have proposed 5074.98 sqm (21.8 % of Plot area) as greenbelt area. The landscape plan is enclosed as Annexure-VI.</td><td>Revised green belt comes to be 5074.98sqm (21.8 % of Plot area).</td></tr>
<tr><td>7.</td><td>Any other issues including local issues</td><td>None.</td><td>-----</td></tr>
</table>

21. The proposed site was visited by the sub-committee of SEAC on 26.12.2023. Following are the observations of the sub-committee:

a) The Residential Project site is located by the side of National High Way No 16 in between Bhubaneswar and Khordha. The team were present along with consultant and explained the layout.

b) There is no construction at present; it is empty land without house.

c) PP needs to obtain permission from the authority for discharge of excess treated water and storm water to the nearby NALA including any construction required for the same to the NALA at a distance of about 100-150 mt away along with drainage plan approved by the authority. Permission from NH authority is required in case they plan to discharge to the NH side drain.

d) PP needs to submit copy of POA mentioning the revenue plots with copy of relevant revenue map for their use.

e) PP to revise greenbelt to be minimum 20% and inform the width of fire corridor as per fire authority requirement.

f) All other points asked during presentation to be complied.

22. The project proponent has submitted the required information / documents as desired by the sub-committee of SEAC during the site visit as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
a)	Provide plan showing Fire corridor should be of 6.5 m.	The fire fighting plan showing fire corridor is enclosed as **Annexure-VII.**	-----
b)	Submit the power of Attorney mentioning revenue plots and mark the revenue plots of Power of attorney on revenue map.	The Power of Attorney mentioning revenue plots and the revenue map marked with revenue plots are enclosed as **Annexure –VIII.**	-----
c)	Lower the excess treated water and show car washing.	The revised water balance is enclosed as **Annexure-II.**	-----
d)	Greenbelt Area to be increased to 20%.	As per suggestion of SEAC, we have proposed 5074.98 sqm (21.8% of Plot area) as greenbelt area. The landscape plan is enclosed as **Annexure-VI.**	-----

Considering the information furnished and the presentation made by the consultant, **M/s Grass Roots Research & Creation India (P) Ltd., Noida, U.P.** along with the project proponent, the SEAC recommended for grant of Environmental Clearance valid for 10 years with stipulated conditions as per **Annexure – A** 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 project proponent shall obtain permission from the concerned authority for discharge of excess treated water and storm water to the nearby NALA including any construction required for the same to the NALA at a distance of about 100-150 mt away along with drainage plan approved by the authority. Permission from NH authority shall also be taken in case they plan to discharge to the NH side drain.

iii) The project proponent has submitted approval of the Chief Engineer drainage Ref.BP.BDA.2023-07-01-018744 of the Bhubaneswar Development Authority. The PP must ensure compliance with the stipulated mandatory condition that the plinth / setback level to be minimum 0.6 m above the road level for preventing water logging in the project area. Other stipulated conditions in the above-mentioned approval that inter alia includes construction of additional rainwater harvesting structures other than 10 nos. already proposed etc. also needs to be complied. The PP also must ensure proper land surface access / right for constructing the discharge drain from the project site to the approved discharge points.

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

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

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 proponent shall develop greenbelt over 5074.98 sqm (21.8% of Plot area) as proposed.

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

xi) The proponent shall obtain permission from Water Resources department, Odisha for use of ground water.

ITEM NO. 07

PROPOSAL OF ENVIRONMENTAL CLEARANCE OF M/S. ASHIANA REALTY LL FOR RESIDENTIAL PROJECT OVER AN BUILT-UP AREA 66,536.14 M^2 LOCATED AT PLOT NO.- 1113(PT), KHATA NO.- 516., MOUZA - DUMUDUMA, TEHSIL- BHUBANESWAR, DISTRICT- KHORDHA OF SRI BINOD KUMAR AGRAWAL – EC.

1. This proposal is for Environmental Clearance of M/s. Ashiana Realty LL for Residential Project over an Built-Up Area 66,536.14 m^2 located at Plot No. - 1113(PT), Khata No.- 516.,Mouza- Dumuduma, Tehsil-Bhubaneswar, District- Khordha of Sri Binod Kumar Agrawal.
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 as its amendments.
3. **Location and connectivity**: Project site is connected through 18 m wide road. The Nearest Highway is NH-16 which is 0.8km in West direction from the project site, NH-316 is 7.4km towards East direction, SH-13 is 11.8km towards SSW direction, & OSHB Phase 5 Site connecting road is adjacent to the project site in south direction. The nearest Railway Station is Sarkantra Railway Station is about 2 km (SSE) away from the project site. Biju Patnaik International Airport is at 2.2 km (E) from project site.
4. Total Plot area measures 9,866.220 m^2 (2.438 acre) and the proposed built-up area is 66,536.14 m^2.
5. **Area Statement:**

S. No.	PARTICULARS	AREA (sq.m.)
viii)	Total plot area	9,866.220
ix)	Permissible Ground coverage (@40% of plot area)	3,946.488
x)	Proposed Ground coverage (@33.425% of the plot area)	3,297.770

xi)	Permissible FAR (@6.0of the Net plot area)	59,197.32
xii)	Proposed FAR (@ 4.68 of Net plot area)	46,177.530
xiii)	Non-FAR area	20,358.610
xiv)	**Total Built-up Area**	**66,536.14**

6. The total population of project after proposed will be 2,020 persons including Residents, maintenance staff & visitors.
7. **Water requirement**: The total water requirement will be met through Ground water and Bore well which is approx. 263 KLD. Total domestic water requirement is 253 KLD, out of which fresh water requirement is approx. 168 KLD, & flushing water will be 85 KLD.
8. **Wastewater details:** The project will generate approx. 219 KLD of wastewater. The wastewater will be treated in an onsite STP of265 KLD capacity. The treated effluent will be reused for flushing & horticulture. Surplus treated effluent will be discharged to external sewer.
9. **Rainwater harvesting details:** Total 9 nos. of Rainwater harvesting pits will be provided for storage of rain water.
10. **Parking details:** Total parking are proposed is 13,347.99 m^2. The total parking area required is 11,213.688m^2.
11. **Power Requirement:** The requirement load for the project will be 1310 KVA. The power supply will be supplied by State Electricity Board. There is provision of 2 nos. of DG sets total 1500 KVA (2*750 kVA) capacity for power back up. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.
12. **Solid waste generation**: The total solid waste generation will be 985 kg/day for the proposed project.
13. **Greenbelt:** Total green area measures 2140.71 m^2 i.e. (22.74% of the net plot area). No. of trees required = 1 tree/80 sqm. of plot area =9410.18/80 = 118 Nos. Total no. of trees proposed = 150 trees.
14. **Project cost**: Total estimated cost of the proposed project is Rs.159.12Cr. including land and development cost.
15. **Environment Consultant**: The Environment consultant **M/s. Grass Roots Research & Creation India (P) Ltd., Noida** along with the proponent made a presentation on the proposal before the Committee.
16. The SEAC in its meeting held on dated 18-10-2023 recommended the following:

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

i) Permission from Bhubaneswar Municipality Corporation to discharge treated waste water to the nearby existing drain.

ii) Details of exact nos. of felling of trees to be carried out as major area of the project site is covered with greenery. Accordingly, the project proponent shall transplant the greenbelt from the proposed site.

iii) Source of the water used for construction and permission obtained regarding the same.

iv) Details of Bottom RL, Ground RL of the Rainwater Harvesting pits during the summer and rainy season.

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.

iv) Road connectivity to the project site.

v) Drainage network at the site.

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

vii) Nothing has been mentioned on treatment of solid Bio-Medical Wastes as special attention is required for this.

viii) Any other issues including local issues.

17. 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
i)	Permission from Bhubaneswar Municipality Corporation to discharge treated waste water to the nearby existing drain.	Permission from Bhubaneswar Municipality Corporation to discharge treated waste water to the nearby existing drain has been obtained and copy of the same is enclosed as **Annexure-I.**	Permission has been granted for discharge of storm water only. Permission from Bhubaneswar Municipality Corporation to discharge treated waste water to the nearby existing drain has not been submitted.
ii)	Details of exact nos. of felling of trees to be carried out as major area of the project site is covered with greenery. Accordingly, the project proponent shall transplant the greenbelt from the proposed site.	There are 82 nos. of trees present at site which will be cut. Application for NOC has been submitted to the office of Divisional Forest Officer & Wildlife Warden on 16.10.2023. Copy of acknowledgement of application is enclosed as **Annexure-II.**	Application for NOC has been submitted to DFO, Chandaka Wildlife division.
iii)	Source of the water used for construction and permission obtained regarding the same.	Source of water during construction phase is Ground water and permission has been obtained from competent authority. Copy of the same is enclosed as **Annexure- III.**	NOC from CGWA for 50KLD is permitted and is valid upto 2028.
iv)	Details of Bottom RL, Ground RL of the Rainwater Harvesting pits during	Details of RWH pit are enclosed as **Annexure – IV.**	-

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
	the summer and rainy season.		

18. The proposed site was visited by the sub-committee of SEAC on 01.11.2023. Following are the observations of the sub-committee:

a) The Project site is located in Dumduma with a sub road of 60 ft from NH. The Layout plans were explained by the Project proponent Team.

b) It was observed that there are no construction activities in the land. The land is connected to the main road of about 60 ft and at other side of road there is already drain.

c) There are lot of trees grown in side both in periphery and inside the site.

d) The PP needs to submit the following:

i) Permission from BMC to discharge excess treated water to the drain.

ii) Before cutting any tree to take permission from the appropriate authority.

iii) Layout map showing the recharge pits and internal drain till fall out.

iv) All other documents asked during the presentation.

19. The project proponent has submitted the required information / documents as desired by the sub-committee of SEAC during the site visit as follows:

Information Sought by SEAC	Compliance furnished by the proponent
Environmental settings of the project site.	The project site is 3.9 km outside the ESZ of Chandaka Dampara Wildlife Sanctuary. DFO NOC is enclosed as **Annexure–V**. There is no other ecologically sensitive location near the project site
Verify if the site is a flood prone area.	Project Site does not located in flood prone area.
Construction activity if any started at the site.	No construction activity has been initiated at project site.
Road connectivity to the project site.	Project site is connected through 18 m wide road and the Nearest Highway is NH-16 which is 0.8 km in West direction from the project site.
Drainage network at the site.	Waste water discharge plan showing drainage connectivity from project site is attached as **Annexure- IV**.
Discharge point for discharge of treated water and distance of the discharge point from the project site.	Details provided above in point no. 5.
Nothing has been mentioned on treatment of solid Bio-Medical Wastes as special attention is required for this.	It is a Residential Project. There will be no bio-medical waste generated.
Any other issues including	No other issues

Information Sought by SEAC	Compliance furnished by the proponent
local issues.	

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

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) Trees located within the project area shall be transplanted to alongside the boundary green development area. The project proponent must obtain permission from an appropriate authority for cutting a few trees at the project site.

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

vii) 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.

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

ix) The proponent shall obtain permission from Water Resources department, Odisha for use of ground water.

MEMBER SECRETARY, SEAC

ANNEXURE - A

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR M/S ACREPLEX REALITY PRIVATE LIMITED FOR RESIDENTIAL PROJECT OVER AN AREA 181539.58 SQ.M AT MOUZA UTTARMUNDAMUHAN, TAHASIL – JATANI, DISTRICT – KHURDHA OF SRI SHASHIKANT BARIK - 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 596 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

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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.
23. A certificate from the competent authority handling municipal solid wastes, indicating the

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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 835 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. 5074.98sqm (21.8% 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 - B

CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR M/S. ASHIANA REALTY LL FOR RESIDENTIAL PROJECT OVER AN BUILT-UP AREA 66,536.14 M^2 LOCATED AT PLOT NO.- 1113(PT), KHATA NO.- 516., MOUZA - DUMUDUMA, TEHSIL- BHUBANESWAR, DISTRICT- KHORDHA OF SRI BINOD KUMAR AGRAWAL - 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 168 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

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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 09 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.
23. A certificate from the competent authority handling municipal solid wastes, indicating the

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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 265 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. 2140.71sqm (22.74 % 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.

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