

Minutes of the 236<sup>th</sup> Meeting of the State Expert Appraisal Committee (SEAC), Haryana constituted for considering Environmental Clearance of Projects (B Category) under Government of India Notification dated 14.09.2006 held on 27.03.2022 under the Chairmanship of Sh. V. K. Gupta, Chairman, SEAC, through Video Conferencing (VC).

Agenda Item No.	Minuting	Correction/to be read as
234.11	Page No. 50 Additional Stipulation(First Bullet point) 1% penalty cost:24crores Total Damage cost:43.58crores	Additional Stipulation(First Bullet point) 1% penalty cost:24lakhs Total Damage cost:43.58lakhs

At the outset the Chairman, SEAC welcomed the Members of the SEAC and advised the Secretary to give brief background of this meeting. In the meeting 4 no. of agenda projects received from SEIAA, were taken up for scoping, appraisal and grading as per agenda circulated.

In the wake of recent crises of COVID-19, lockdown situation, Committee took a decision to scope and appraises the EC cases as per the guidelines issued by MoEF& CC from time to time by video conferencing. It was decided that before the commencement of online video conferencing the agenda is required to be mailed beforehand. Accordingly the agenda of the present meeting was mailed to SEAC members in advance and a video conference meeting was organized in this regard on 27.03.2022

The 236<sup>th</sup> meeting of SEAC Haryana was held online by video conferencing on 27.03.2022. The following members joined the meeting:

Sr. No.	Name	Designation
1.	Shri Prabhakar Verma	Member
2.	Dr.Vivek Saxena,IFS	Member
3.	Dr. Rajbir Singh Bondwal, IFS(Retd.),	Member
4.	Dr. Sandeep Gupta	Member
5.	Dr. R. K. Chauhan, Joint Director, Environment & Climate Change Department, Haryana	Member Secretary

**236.01 EC for Construction of Shree Sheetla Mata Devi Medical College & Hospital at Village Kherki Majra, Sector 102, Gurugram, Haryana by M/s Gurugram Metropolitan Development Authority, GMDA**

**Project Proponent : Mr. Amit Kumar**  
**Consultant : In situ Envirocare**

The Project was submitted to the SEIAA, Haryana vide online Proposal No. SIA/HR/MIS/129963/2019 dated 23.03.2022 for obtaining Environmental Clearance under Category 8(a) of EIA Notification 14.09.2006.

The case was taken up in 236<sup>th</sup> meeting held on 27.03.2022. The PP presented the case before the committee

- The Proposed project is for EC for Construction of Shree Sheetla Mata Devi Medical College & Hospital at Village Kherki Majra, Sector 102, Gurugram, Haryana by M/s Gurugram Metropolitan Development Authority, GMDA
- The project is on concept basis as Building plans has not been approved from the competent authority
- The PP submitted the copy of letter for allotment of 30.08 acres land to the GMDA
- Sultanpur Bird Sanctuary lies within 8.5 km from the project site
- The PP submitted the copy of DD of Rs. 2 lakh as scrutiny fees in favour of MS, SEIAA

The details of the project, as per the documents submitted by the project proponent, and also as informed during the presentation in the meeting are as under:-

**Table 1: Basic Details**

<b>Name of the Project:</b> "Construction of Shree Sheetla Mata Devi Medical College & Hospital (650 Bed Hospital and 50 Bedded Trauma Center)" At Village- Kherki Majra, Sector 102, Gurugram, Haryana; Proposed by GMDA, Gurugram			
<b>Sr. No.</b>	<b>Particulars</b>		
1.	Online Proposal Number	<b>SIA/HR/MIS/129963/2019</b>	
2.	Latitude		
3.	Longitude		
		<b>S. No.</b>	<b>Latitude</b>
			<b>Longitude</b>
		1	28° 28' 59.838" N 76° 58' 41.150" E
		2	28° 29' 0.085" N 76° 58' 30.569" E
		3	28° 28' 58.277" N 76° 58' 30.540" E
		4	28° 28' 58.308" N 76° 58' 29.234" E
		5	28° 29' 10.130" N 76° 58' 29.666" E
		6	28° 29' 10.163" N 76° 58' 22.141" E
		7	28° 29' 17.774" N 76° 58' 22.262" E
		8	28° 29' 10.861" N 76° 58' 38.840" E
		9	28° 29' 8.706" N 76° 58' 41.182" E
4.	Plot Area	1,24,684.00 Sq.m (30.08 Acre) applied Recommended (29.75 acre) except khasrano. 44//16-24-25	
5.	Net Plot Area	--	
6.	Proposed Ground Coverage	20,179.96 Sq.m	
7.	Proposed FAR	1,21,986.55 Sq.m	
8.	Non FAR Area	18,055 Sq.m	

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9.	Total Built Up area	1,40,051.55 Sq.m	
10.	Total Green Area with %	23,151.58 Sq.m (21 %)	
11.	Rain Water Harvesting tanks	30 tanks	
12.	STP Capacity	675 KLD STP and 65 KLD (ETP)	
13.	Total Parking	Hospital Basement: 400ECS Academic Basement:115ECS Surface :470ECS Total : 985ECS	
14.	Organic Waste Converter	4	
15.	Maximum Height of the Building (m)	50.95 m	
16.	Power Requirement	6639 KW	
17.	Power Backup	4*2000 KVA	
18.	Total Water Requirement	1367 KLD	
19.	Domestic Water Requirement	482 KLD	
20.	Fresh Water Requirement	482 KLD and 215 KLD (Flushing-one time demand), which will be further used through treated water).	
21.	Treated Water	516 KLD	
22.	Waste Water Generated	594 KLD	
23.	Solid Waste Generated	931 Kg/Day	
24.	Biodegradable Waste	349.12 Kg/Day	
25.	Number of Towers	Hospital Block (B+G+7), Autopsy (G) , Shopping Arcade (G+1), Gas Manifold (G), ESS (G), Academic block (B+G+6), UG Boys Hostel (G+11), UG Girls Hostel (G+15), Nurse Hostel (G+6) and Resident Hostel (G+6)	
26.	Dwelling Units/ EWS	Dwelling Unit: 1172 No.	
27.	Basement	One Basement (Under Hospital Block and Academic Block).	
28.	Community Center	Shopping Arcade (G+1)	
29.	Stories	G+15 (maximum)	
30.	R+U Value of Material used (Glass)	U Value: 5.5 w/sqm k SHGC: 0.9	
31.	Total Cost of the project:	i) Land Cost	--
		ii)	The total estimated cost of proposed project is approx. Rs 541.82 Crores which includes the cost of the land as well as the developmental cost.

32.	EMP Budget ( <b>per year</b> )		i) Capital Cost	9,41,96,05 INR
			ii) Recurring Cost	1,53,59,142 INR
33.	Incremental Load in respect of:		i) PM 2.5	3.2 µg/m <sup>3</sup>
			ii) PM 10	4.6 µg/m <sup>3</sup>
			iii) SO <sub>2</sub>	0.954.6 µg/m <sup>3</sup>
			iv) NO <sub>2</sub>	2.0 µg/m <sup>3</sup>
			v) CO	2.2µg/m <sup>3</sup>
34	Status of Construction			No construction started at the site.
35.	Construction Phase:	i) Power Back-up	Temporary connection	
		ii) Water Requirement & Source	Through GMDA+ Treated Water	
		iii) STP (Modular)	one	
		iv) Anti-Smoke Gun	2	

Table 2:EMP DETAILS

<b>(A) DURING CONSTRUCTION PHASE</b>			
<b>S.No.</b>	<b>Component</b>	<b>Capital Cost in INR</b>	<b>Recurring Cost in INR</b>
1	Labor Sanitation & Waste water Management	10,00,000	5,00,000
2	Dust Mitigation Measures Including site barricading, water sprinkling and anti-smog gun)	75,00,000	10,00,000
3	Storm Water Management (temporary drains and sedimentation basin)	3,25,00,000	10,00,000
4	Solid Waste Management	10,00,000	3,00,000
5	PPE for workers & Health Care	3,00,000	1,50,000
6	Covering of the loose materials (cement, soil etc)	8,00,000	3,00,000
	<b>TOTAL (A)</b>	<b>4,31,00,000</b>	<b>42,50,000</b>

<b>(B) DURING OPERATIONAL PHASE</b>			
<b>S.No.</b>	<b>Component</b>	<b>Capital Cost in INR</b>	<b>Recurring Cost in INR</b>
1	Waste water management (STP)	1,34,07,228	26,81,445
2	ETP	10,38,487	2,07,697

3	Rain water harvesting system	75,00,000	15,00,000
4	Landscaping/Maintenance of Green Area	35,00,000	7,00,000
5	Monitoring of Air, Water, Stack Emission & Noise	9,00,000	1,80,000
6	Medical cum First Aid facility ( providing medical room & Doctor)	5,00,000	1,00,000
7	Power Back up	80,00,000	16,00,000
8	Solar Panel (500 KW)	1,24,50,344	24,90,000
9	Conservation activity chart	5,00,000	4,00,000
<b>Socio-Economic</b>			
10	Rain water harvesting system in nearby Govt. School	8,00,000	3,00,000
11	Providing Water Coolers in Nearby School	3,00,000	1,00,000
12	Provide Solar Street lights in the nearby area	8,00,000	3,00,000
13	Support to nearby Govt school library	4,00,000	1,50,000
14	Avenue plantation along approach roads in a scientific manner	10,00,000	4,00,000
	<b>TOTAL (B)</b>	5,10,96,059	1,11,09,142
	<b>Grand Total (A+B)</b>	<b>9,41,96,059</b>	<b>1,53,59,142</b>

The discussion was held on revised water calculation, RWH, ECBC , STP ETC and certain observations were raised as following:-

1. The PP shall submit the revised calculation design of STP @120% of the waste water generated i.e. 425KLD
2. The PP shall submit the revised water calculation in view of that fresh water shall not be used in Horticulture, HVAC etc.
3. The PP shall submit the design of 65KLD ETP capacity and MEE provision
4. The PP shall submit the usage of 20KLD in DG set cooling and its reject
5. The PP shall submit the details of effluent output of ETP
6. The PP shall submit the revised RWH plan by taking the intensity of rainfall 90mm
7. The PP shall submit the permission of bore-well as mentioned in point no. 2.7 of Form IA
8. The PP shall submit the RWH pits on the plan @31RWH in total as per 1 RWH per acre
9. The PP should submit energy saving details from the project and detailed ECBC compliance with percentage energy savings.
10. The PP shall submit the solar power details as discussed in meeting i.e 5 % of power load
11. The PP shall submit the green plan along with details of green area in each polygon and also submit the schedule of plantation.
12. The PP shall submit the revised population as per NBC 2016

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13. The PP shall submit the undertaking that no construction will be carried out at 66KVA HT/440 KVA line@ 30 meter
14. The PP shall submit the all legible plans at 1:10,000 scale
15. The PP shall submit the location of ETP and details of inlet and outlet parameters of water, STP, OWC, DG on the plan
16. The PP shall submit the traffic circulation plan
17. The PP shall submit the undertaking that if built up area more than 20,000 sqm that PP shall seek separate EC
18. The PP shall submit the water mobilization plan
19. The PP shall submit the air simulation plan and remediation plan for higher values of GLC
20. The PP shall submit the zoning plan, layout and approved building plan
21. The PP shall submit the solid waste management plan
22. The PP shall submit the fire approval plan /Fire SOP
23. The PP shall submit the dual plumbing plan
24. The PP shall submit the hazardous waste management plan
25. The PP shall submit the undertaking that water will not be disposing the nearby pond
26. The PP shall submit the geotechnical report
27. The PP shall submit the service provider for biomedical waste for BMW 2016 implementation plan
28. The PP shall submit the EMP details along with socio economic
29. The PP shall submit the onsite and offsite emergency plan or disaster management plan
30. The PP shall submit the noise management plan in respect of vehicular moment , details of silence zones
31. The PP shall submit the undertaking that water from hazardous waste location site shall not be mixed with RWH
32. The PP shall submit the no. of existing trees along with girth and species.
33. The PP shall submit the updated form I and Form IA
34. The PP shall submit the built up area details for allied buildings i.e residential , hostel
35. The PP shall submit the undertaking that built up area including all the building less than 1,50,000sqm
36. The PP shall submit the E-waste management plan along with plastic waste management
37. The PP shall submit the details of autopsy and gas manifold area details
38. The PP has mentioned OPD details 3500 and 500 at different pages
39. The PP shall submit the AAI Clearance along with maximum height of building attained
40. The PP shall submit the MSDS sheets of chemicals along with threshold limits.
41. The PP shall submit the letter for change in PP

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42. The PP shall submit the water logged details of area
43. The PP shall submit the details of existing structure and undertaking for following C&D rules if removal of existing building
44. The PP shall submit the DFO NOC for cutting of existing trees if project has existing trees along with translocation if any. The PP shall submit 10 times more trees to be planted of the no. of cutting of trees.
45. The PP shall submit the queries raised regarding 5 court cases in forest NOC
46. The PP shall submit the enhanced green area as discussed in SEAC along with Miyawaki forest details.
47. The PP shall submit the details of point no. 7 in Aravalli NOC and details of missing khasra number. Aravalli has 29.7 acre instead of project area
48. The PP shall submit undertaking that construction will start after taking fire NOC
49. The PP shall provide proper power back up in emergency area instead of 3\*1500 KVA
50. The PP shall submit clear demarcation as mentioned in slide no. 80
51. The PP shall take more plantation in residential and silence zones

The PP submitted the reply of above said observations vide letter dated 28.03.2022 along with undertaking that :-

- Environmental Clearance is proposed for the Sheetala Mata Devi Medical College and Hospital (650 Bed Hospital and 50 Bed Trauma Center), located at Village Kherki Majra, Sector – 102A, Gurugram, Haryana, wherein the total plot area of the project site is 1,24,684 Sq.M. (30.08 Acre) and proposed built up area of all the 10 Blocks are 140051.55 Square Meters. These are Hospital Block, Autopsy, Shopping Arcade, Gas Manifold and Services, Electrical Sub-station, Academic Block, UG Boys Hostel, UG Girls Hostel, Nurses Hostel and Resident Hostel.
- None of the existing trees shall be cut without obtaining prior permission of tree felling from competent authority. If any tree is cut down, compensatory plantation @ 10 times of the number of tree cut, will be maintained.
- All steps will be taken in to account for increase in the plantation, area aiming to reach 25 per cent of the plot area.
- Total number of trees proposed to be planted is 1534 Nos., 2/3<sup>rd</sup> of which shall of indigenous species and remaining 1/3<sup>rd</sup>. shall be of decorative species.
- Water collected through RWH from the roof top and green area shall be re-used in horticulture / plantation etc.
- A letter of clarification regarding the ground position of killa No. 43//16-24-25 at Project site in context with Aravali NOC shall be obtained from the competent authority and submitted to your good office. However, EC may be granted, except above mentioned killa number. If EC required for the above khasra at later stage, then separate application for the same shall be submitted.
- A letter of clarification regarding the ground position of different notifications mentioned in the forest NOC shall be obtained from the concerned authority and submitted to your good offices.
- Solar power will be increased from proposed 2% of required electricity load to 5% or as per the rules of Haryana Government.

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- All effort shall be made to fit the entire project in Zero Litre Discharge.
- Fire NOC shall be obtained for construction.
- Structural drawing shall be got vetted from recognised institution of repute.
- The undersigned (Er. Amit Kumar, Executive Engineer – III (M) Infra -1 –GMDA, Gurugram) is the authorized Signatory for this project.

The documents were placed before the committee which was considered by the committee and the PP submitted that Rs.9Lakhs will be spent on various wildlife conservation activities like artificial nests on the trees, digging of ponds and construction of feeding platforms through Environment Management Plan and after Deliberation, the committee rated this project with “**Gold Rating**” and was of the unanimous view that this case for granting Environmental Clearance under EIA Notification dated 14.9.2006 issued by the Ministry of Environment and Forest, Government of India should be recommended to the SEIAA with the following specific and general stipulations:

**A. Specific conditions:-**

1. Sewage shall be treated in the STP on latest Technology to achieve standards ordered by NGT. The Treated effluent from STP shall be recycled /reused for flushing. DG cooling and Gardening.
2. The PP should not mix the ETP effluent after treatment in the STP and ETP effluent shall be separately utilized for the purposes
3. The PP shall spent Rs.9 Lakh on various wildlife conservation activities like artificial nests on the trees, digging of ponds and construction of feeding platforms through Environment Management Plan.
4. The Project Proponent would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coli forms and other pathogenic bacteria.
5. The PP shall ensure that total 2% of the cost of project shall be spent on EMP Budget. However, the amount and component shown in EMP table above shall also be included for the purpose of 2% amount. The EMP cost on Socio Economic activities shall be used before the commencement of the project & EMP recurring inside the project shall be implemented throughout the operation of the project. The PP shall establish Environment monitoring cell as per documents submitted.
6. The PP shall not carry out any construct above and below revenue rasta if passing through the project and ensure that permission of the competent authority shall be obtained before carry out any construction above or below the revnue rasta. The PP shall put notice board on the revenue rasta for the passer byes.
7. The project proponent shall upload the status of compliance of the basic details (given in above tables), stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
8. The Project Proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
9. Separate wet and dry bins must be provided in each unit and at ground level for facilitating segregation of waste. Solid Waste shall be segregated into wet garbage

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- and inert materials. Wet Garbage shall be composted in Organic waste convertor. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The Inert waste from the project will be sent to solid waste dumping site through authorized vender.
10. Traffic management plan as submitted shall be implemented in letter and spirit. Apart, 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 marinated and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or purpose to be carried out by the project or other agencies in this 05kms radius of the site in different scenarios of space and time
  11. No tree cutting has been proposed in the instant project. A minimum of 1 tree for every 80sqm 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 23,151.58 Sq.m (21 %) shall be provided for Green Area development for whole project, excluding plot areas. The PP shall carry out the plantation in phased manner with 20% every year from the date of start of construction. The PP shall also develop the Miyawaki Forest and makes an effort to iuncreae upto 25 % of plot area and effort shall be made in residential area and silence zones
  12. 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.
  13. 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.
  14. The Approval of the Competent Authority shall be obtained for structural safety of building code due to earthquakes, adequacy of fire fighting equipments etc. as per National Building Code including protection measures from lightening etc.
  15. The PP shall obtain the Fire NOC from the Competent Authority before taking the occupation of the building.
  16. The PP shall install the Eco Friendly Green Transformer based on ester oil to reduce the carbon footprint. The PP shall shift to gas based generator set when the gas is available. The PP shall install APCM for the DG set. The PP shall reduce the So2 load by30% if HSD is used. The DG sets will be operated for maximum 04 hours during power failure through Executing Agency
  17. The PP shall obtain the permission regarding withdrawal of ground water, if any from HWRA/CGWA before the start of the project and also obtained the CTO from HSPCB after the approval from HWRA/CGWA.
  18. The PP shall carry out the quarterly awareness programs for the stakeholders of the project.
  19. 30 Rain water harvesting recharge tanks shall be provided as per the CGWB norms.
  20. The PP shall provide the Anti smog gun mounted on vehicle in the project for suppression of dust during construction & operational phase and shall use the treated water, if feasible.
  21. The PP shall take all preventive measures including water sprinkles to control dust during construction and operational phase.
  22. The PP shall not use fresh water in HVAC, DG cooling etc and treated water shall be used in flushing and horticulture etc.
  23. The PP shall provide at least 5% solar power of the total load of the project and coordinate with HAREDA
  24. The PP shall seek separate EC if the built up area is more than 20000 sq.m of any building.

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25. The PP shall not discharge the water of STP in nearby ponds
26. The PP shall not start the project without obtaining the Geotechnical report from the competent authority
27. The PP shall made agreement with service provider for disposal of Biomedical waste as per BMW Rules 2016
28. The PP shall prepare the onsite and offsite emergency plan for any disaster in the hospital
29. The PP shall be responsible if builtup area at any stage is found to be more than 1,50,000 sq.m
30. The PP shall take preventive measures as per MSDS sheets of all chemicals used in hospital
31. The PP shall comply with C&D management Rules
32. The PP shall take permission of DFO before cutting of existing trees and plant 10 times more than the quantity of cutting
33. The PP shall not start the project until if any decision is pending on mentioned court cases in as mentioned in Forest NOC
34. The PP shall take separate EC under aravalli notification 14.09.2006 if one missing khasra number falls in Aravalli before the start of the project.
35. The PP shall not allow congetion of traffic and make smooth traffic inflow in and around the hospital. Traffic shall be prohibited in silence zones
36. Any change in stipulations of EC will lead to Environment Clearance void-ab-initio and PP will have to seek fresh Environment Clearance.

**B. Statutory Compliance:**

- [1] The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority for ground coverage, FAR and should be in accordance with zoning plan approved by Competent Authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- [2] The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightening etc.
- [3] The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- [4] The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- [5] The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Haryana State Pollution Control Board.
- [6] The project proponent shall obtain the necessary permission for drawl of ground water /surface water required for the project from the competent authority.
- [7] A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- [8] All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- [9] The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, the Plastics Waste (Management) Rules, 2016 and Batteries waste (Management Handling Rules2001 as amended in 2020) shall be followed.
- [10] The project proponent shall follow the ECBC Act/ECBC-Rules prescribed by Bureau of Energy Efficiency, Ministry of Power strictly in addition of bylaws of the State Government.

## **I Air Quality Monitoring and Preservation**

- i. 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.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of ultra lowsulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. 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.
- x. The diesel generator sets to be used during construction phase shall be ultra lowsulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. 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. Ultra 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.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

## **II Water Quality Monitoring and Preservation**

- i. 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.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details. The per capita supply should adhere to NBC 2016 and CGWA Notification dated 12.12.2018.

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- iv. 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 along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. 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.
- viii. 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.
- ix. 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.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain Water Harvesting pits shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. 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.
- xvi. 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 along with six monthly Monitoring reports.
- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.

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- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxi. 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.

### **III Noise Monitoring and Prevention**

- i. Ambient noise levels shall conform to residential area/commercial area 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.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

### **IV Energy Conservation Measures**

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency as per ECBC Act, 2017 read with ECBC Rules, 2018 shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC also which is in no case should be less than 25% as prescribed.
- ii. Outdoor and common area lighting shall be LED.
- iii. 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 R & U-values shall be as per ECBC specifications.
- iv. 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.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. 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.
- vii. The PP will submit report indicating compliance of each parameter of ECBC requirement and submit quantification saving report for each component.

### **V Waste Management**

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for

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- general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii. 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.
  - iv. Organic Waste Converter within the premises with a minimum capacity of 0.5 kg /person/day must be installed. Leaves to be put in earmarked pits for converting them into compost to be used as manure.
  - v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
  - vi. Any hazardous waste generated during construction phase, shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
  - vii. 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.
  - viii. 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.
  - ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
  - x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

## **VI Green Cover**

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- ii. A minimum of 1 tree (5' tall) for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv. 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.

## **VII Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and **236<sup>th</sup>Video Conferencing (VC) Meeting of SEAC, Haryana, dated 27.03.2022**

safety of users. The road system can be designed with these basic criteria.

- a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b) Traffic calming measures.
  - c) Proper design of entry and exit points.
  - d) Parking norms as per local regulation.
- ii. 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.
  - iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

### **VIII Human Health Issues**

- i. 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.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

### **IX Corporate Environment Responsibility**

- i. The project proponent shall comply with the provisions of CER, as applicable.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/ or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be

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reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

## **X Miscellaneous**

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the form-IA, Conceptual Plan and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plan shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)/SEIAA, Haryana. The project proponent shall seek fresh environmental clearance under EIA notification 2006 if at any stage there is change of area of this project.
- x. Any change in planning of the approved plan will leads to Environment Clearance void-ab-initio and PP will have to seek fresh Environment Clearance
- xi. The PP should give unambiguous affidavit giving land promoters in accordance with your ownership and possession of land legal the case referred for Environment Clearance to SEIAA.
- xii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiii. The Ministry/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv. The Ministry/SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

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

**236.02 ToR for Proposed Group Housing Building in Zone 10, DLF 5 at Sector 54, Gurugram, Haryana by M/s DLF Ltd**

**Project Proponent : Mr .Lalit kaushik**  
**Consultant : Vardan Enviro**

The Project was submitted to the SEIAA, Haryana vide online Proposal No. SIA/HR/MIS/73368/2022 dated 09.03.2022 for obtaining Environmental Clearance under Category 8(b) of EIA Notification 14.09.2006.

The case was taken up in 236<sup>th</sup> meeting held on 27.03.2022. The PP presented the case before the committee

- The proposed project is for ToR for Proposed Group Housing Building in Zone 10, DLF 5 at Sector 54, Gurugram, Haryana by M/s DLF Ltd
- The PP submitted the copy of DD of Rs. 2 lakh as scrutiny fees in favour of MS, SEIAA

<b>Name of the Project: Proposed Group Housing Buildings in Zone 10, DLF 5, at Sector-54 Gurugram, Haryana by M/s DLF Limited</b>		
<b>Sr. No.</b>	<b>Particulars</b>	<b>Total Area</b>
<b>1.</b>	<b>Online Project Proposal Number</b>	<b>SIA/HR/MIS/73368/2022, Dated 09.03.2022</b>
2.	Latitude	28°26'44.55"N
3.	Longitude	77°06'48.93"E
4.	Plot Area	30,653.317m <sup>2</sup> (7.574 acres)
5.	Proposed Ground Coverage	6,369.381 m <sup>2</sup> (20.77%)
6.	Proposed FAR	1,43,937.510m <sup>2</sup>
7.	Non FAR Area	89,440.488m <sup>2</sup>
8.	Total Built Up area	2,33,377.998m <sup>2</sup>
9.	Total Green Area with Percentage	9,195.995m <sup>2</sup> (30% plot area)
10.	Rain Water Harvesting Pits	8 Nos.
11.	STP Capacity	DLF-5 Common STP of 15 MLD
12.	Total Parking	1,615 ECS
13.	Organic Waste Converter	Total 2 nos. of Organic waste converters of capacity 1,500 Kg/day (1×1,250 Kg/day+1×250Kg/day)
14.	Maximum Height of the Building (till terrace)	109.350 m
15.	Power Requirement	5,874 KW (DHBVN)
16.	Power Backup	5 DG sets of total capacity 8,250 KVA (3×2000 KVA + 1×1250 KVA+ 1×1000 KVA).

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17.	Total Water Requirement	391 KLD
18.	Domestic Water Requirement	255 KLD
19.	Fresh Water Requirement	255 KLD
20.	Treated Water	136 KLD
21.	Waste Water Generated	294 KLD
22.	Solid Waste Generated	2,069 kg/day
23.	Biodegradable Waste	1,241 kg/day
24.	Number of Blocks	4nos
25.	No. of Floors for Blocks	S+33
26.	Dwelling Units	520nos
27.	EWS Unit	--
28.	Service personnel units	50nos
29.	Salable Units	-
30.	Basement	4nos
31.	Community Building	1483.404 m <sup>2</sup>
32.	Convenient Shopping	--
33.	Stories	S+33 Floors
34.	R+U Value of Material used (Glass)	We will provide at time of EIA
35.	Total Cost of the project:	i) Land Cost
		ii) Construction Cost
		1076 Cr.

The discussion was held on STP, self contained note, compliance report, EC, extension in validity of EC, Forest NOC, RWH, area under different establishment, TOR, CLU, Court cases etc. The Committee deliberated and decided to approve TOR and the project proponent will prepare the EIA by using Model Terms of Reference of MoEF&CC with following additional Terms of Reference:

#### **Standard ToR**

- 1) Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
- 2) Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.
- 3) Examine baseline environmental quality along with projected incremental load due to the project.
- 4) Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio-economic and health.
- 5) Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project
- 6) Submit the details of the trees to be felled for the project.
- 7) Submit the present land use and permission required for any conversion such as forest, agriculture etc.
- 8) Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
- 9) Ground water classification as per the Central Ground Water Authority.
- 10) Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.

- 11) Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
- 12) Examine soil characteristics and depth of ground water table for rainwater harvesting.
- 13) Examine details of solid waste generation treatment and its disposal.
- 14) Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
- 15) DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
- 16) Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analyzed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
- 17) A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
- 18) Examine the details of transport of materials for construction which should include source and availability.
- 19) Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
- 20) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
- 21) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 22) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 23) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".

#### Additional TOR

1. The PP shall submit the self-contained note mentioning the details of earlier EC for 456 acres along with chronology of all EC granted for the project
2. The PP shall submit the details of nala passing through the project and its level
3. The PP shall submit the contour plan in reference to levels of nala
4. The PP shall submit the maps of 5.86 resolution of GIS
5. The PP shall also submit the drainage plan of project in consonance with total project of 456 acres
6. The PP shall submit the status of construction at the site.
7. The PP shall submit the proof along with affidavit that no construction has been done after the expiry of EC.
8. The PP shall submit the certified compliance report from MOEF&CC.
9. The PP shall submit the activity wise break up area of the project
2. The PP shall submit the duly approved plan.
3. The PP shall submit the drainage map with contour of each area of the project
4. The PP shall submit the hydraulic design details of STP proposed at the site.
6. The PP shall submit the affidavit that no legal case is pending against the PP regarding land or any other issues of the project.
9. The PP shall submit the KLM file of the project site
10. The PP shall submit the land use details of the project
11. The PP shall submit the Geo Technical Studies

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12. The PP shall submit the Population calculations as per NBC norms.
13. The PP shall submit the seasonal testing reports of water, air, soil and noise
15. The PP shall submit the technology of water treatment, hydraulic design, dimensions of each component of each STP, MLSS standards to be achieved in each STP
16. The PP shall submit the Solid waste calculations and its management plan
17. The PP shall submit the traffic study incremental load analysis wr.t. current roads/status of connecting roads a up-gradation plan.
18. The PP shall submit the air dispersion modeling, sampling locations, wind rose, DG/vehicular emission data, AAQ data of seven locations.
19. The PP shall submit the ECBC Compliance with Energy saving
20. The PP shall submit the RWH details based on calculation @ 90 mm rain fall and double bore well for better sustainable RWH
22. The PP shall submit the parking calculations along with Map
23. The PP shall submit the tangible EMP Capital and recurring cost for the project
25. The PP shall submit the biodegradable waste management plan of the project along with organic waste convertor. The schematic diagramme for the management of organic waste and calculation along with mode of collection, segregation, transportation and disposal of complete Biodegrade waste.

**236.03 ToR for setting up of 1.5 MTPA Cement Grinding Unit at Village Chirya, District Charkhi Dadri, Haryana by M/s Nuvoco Vistas Corporation Limited, Equinox Business Park (Peninsula Techno Park).**

**Project Proponent: Mr. Rajeev Ranjan**

**Consultant: VardanEnvironet**

The project was submitted to the SEIAA vide online proposal no. SIA/HR/IND/70176/2021 on dated 28.12.2021 as per check list approved by the SEIAA/SEAC for obtaining Environmental Clearance under Category 3(b) of EIA Notification 14.09.2006.

The case was taken up in 232<sup>nd</sup> meeting of SEAC held on 07.01.2022. The PP presented the case before the committee

- The proposed project is for ToR for Setting up of 1.5 MTPA Clinker Grinding Unit at Village Chirya, District Charkhi Dadri, Haryana by M/s Nuvoco Vistas Corporation Limited
- The PP submitted the copy of DD for Rs. 2 lakh in favour of MS, SEIAA

The details of the project, as per the documents submitted by the project proponent, and also as informed during the presentation in the meeting are as under:-

**Table 1: Basic details**

<b>Name of the Project:</b> Setting up of Clinker Grinding Unit with Cement Production Capacity of 1.5 MTPA at Village- Chirya, Tehsil: Charkhi Dadri, District- Charkhi Dadri, Haryana by Nuvoco Vistas Corp Ltd.							
<b>Sr. No.</b>	<b>Particulars</b>						
1.	Online Proposal Number	SIA/HR/IND/70176/2021					
2.	Latitude	<table border="1" style="width: 100%;"> <tr> <td>Latitude</td> <td>30°17'23.88"N</td> </tr> <tr> <td>Longitude</td> <td>76°57'50.56"E.</td> </tr> </table>		Latitude	30°17'23.88"N	Longitude	76°57'50.56"E.
Latitude	30°17'23.88"N						
Longitude	76°57'50.56"E.						
3.	Plot Area	12.94 Ha.					
4.	Net Plot Area	12.94 Ha.					
5.	Total Built Up area	3.74 Ha.					
6.	Total Green Area with %	4.27ha. (33%)					

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8.	STP Capacity	18 KLD	
9.	Total Parking	All Parking will be done within the plant premises.	
10.	Power Requirement	10 MW	
11.	Power Backup	1 D.G. set of 1500kVA capacity	
12.	Total Water Requirement	195 KLD	
13.	Domestic Water Requirement	20 KLD	
14.	Fresh Water Requirement	195 KLD	
15.	Treated Water	14 KLD	
16.	Waste Water Generated	16 KLD	
17.	Total Cost of the project:	Rs. 21565Lakhs	
20.	Construction Phase:	v) Power Back-up	Not Required, Power will be sourced through Existing facilities
		vi) Water Requirement & Source	10 KLD Source- STP Treated Water

**Table2:Raw Material Consumption**

S. No.	Material	Quantity (MTPA)		Source
		PPC	OPC	
1.	Clinker	1.0	1.425	Nuvoco Cement Plant: Chittorgarh and Nimbol/ Open market
2.	Fly ash	0.5	-	Coal Fired Power plant in Jharli, Jhajjar/Uttar Pradesh
3	Mineral/ Chemical Gypsum	0.05	0.03	Binakner mines, Bhavnagar/ Bharuch, Ashapura perfoclay, Hindustan zinc waste, Oman (via dahej port)

The Discussion was held on Green plan, wildlife distance, CTE/CTO, feasibility report SPM and filter etc. The discussion was also held on the letter of MOEF&CC regarding jurisdiction of appraisal of project. The case was earlier recommended by SEAC for grant of TOR vide 232 meeting of SEAC. The SEIAA in its meeting 135<sup>th</sup> disposed off with condition to apply at MOEF&CC. after expiry of present term of SEAC, PP applied to MOEF&CC for clarification and accordingly taken up in EAC, MOEF&CC on 2<sup>nd</sup> March 2022 wherein MOEF &CC clarified that it is category 3(b) and to be considered at state level. Therefore, the PP again applied and after detailed deliberations it was decided by the committee to recommend the case to SEIAA for approval of ToR and the project proponent will prepare the EIA by using Model Terms of Reference of MoEF&CC with following additional Terms of Reference along with public hearing:

#### **A.STANDARD TERMS OF REFERENCE (TOR)**

- 1) Executive Summary
- 2) Introduction
  - i. Details of the EIA Consultant including NABET accreditation

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- ii. Information about the project proponent
  - iii. Importance and benefits of the project
- 3) Project Description
- i. Cost of project and time of completion.
  - ii. Products with capacities for the proposed project.
  - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
  - iv. List of raw materials required and their source along with mode of transportation.
  - v. Other chemicals and materials required with quantities and storage capacities
  - vi. Details of Emission, effluents, hazardous waste generation and their management.
  - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
  - viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided
  - ix. Hazard identification and details of proposed safety systems.
  - x. Expansion/modernization proposals:
    - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
    - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.
- 4) Site Details
- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
  - ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
  - iii. Details w.r.t. option analysis for selection of site
  - iv. Co-ordinates (lat-long) of all four corners of the site.
  - v. Google map-Earth downloaded of the project site.
  - vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
  - vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
  - viii. Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
  - ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
  - x. Geological features and Geo-hydrological status of the study area shall be included.

- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
  - xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
  - xiii. R&R details in respect of land in line with state Government policy
- 5) Forest and wildlife related issues (if applicable):
- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
  - ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
  - iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
  - iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon.
  - v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
  - vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife
- 6) Environmental Status
- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
  - ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based on CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
  - iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQPM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
  - iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
  - v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
  - vi. Ground water monitoring at minimum at 8 locations shall be included.
  - vii. Noise levels monitoring at 8 locations within the study area.
  - viii. Soil Characteristic as per CPCB guidelines.
  - ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
  - ix. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
  - x. Socio-economic status of the study area.
- 7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on sitespecific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
  - ii. Water Quality modelling - in case of discharge in water body
  - iii. Impact of the transport of the raw materials and end products on the surrounding environments shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
  - iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
  - v. Details of stack emission and action plan for control of emissions to meet standards.
  - vi. Measures for fugitive emission control
  - vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
  - viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
  - ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
  - x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
  - xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
  - xii. Action plan for post-project environmental monitoring shall be submitted.
  - xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management  
Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.
- 8) Occupational health
- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
  - ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
  - iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these



- are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.
- 9) Corporate Environment Policy
    - i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
    - ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
    - iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
    - iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report
  - 10) Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
  - 11) Enterprise Social Commitment (ESC)
    - i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with timebound action plan shall be included. Socio-economic development activities need to be elaborated upon.
  - 12) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
  - 13) A tabular chart with index for point wise compliance of above TOR.

#### **B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR CEMENT PLANTS**

1. Limestone and coal linkage documents along with the status of environmental clearance of lime stone and coal mines
2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
3. For large Cement Units, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site.
4. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
5. If the raw materials used have trace elements, an environment management plan shall also be included.
6. Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines must be prepared.
7. Energy consumption per ton of clinker and cement grinding
8. Provision of waste heat recovery boiler
9. Arrangement for use of hazardous waste
10. The PP shall submit the online monitoring plan
11. The PP shall submit fire fighting plan and fire rescue (SOP)
12. The PP shall submit details of gases and its management plan

13. The PP shall submit distance of wildlife sanctuary Bhindawas and khapriwas from the project site.
  14. The PP shall submit CTE/CTO on the existing blending unit
  15. The PP shall submit classification of OPC/PPC
  16. The PP shall submit Green plan along with miyawaki details
  17. The PP shall submit details of existing trees along with girth
  18. The PP shall submit solar power plan minimum @20% of the installed capacity
  19. The PP shall submit water permission from the competent Authority
  20. The PP shall submit feasibility report for the SPM and filter to be used
  21. The PP shall submit wildlife conservation plan approved from the competent authority from schedule –I species
  22. The PP shall submit the affidavit along with notification regarding stand lone grinding unit category
  23. The PP shall submit affidavit that all NGT guidelines will be followed as issued in case of cement plants
  24. The PP shall submit the details of fugitive emission and its control methodology
- The PP shall submit the Miyawaki details in green plan

**236.04 ToR for the project Expansion of Residential Plotted Colony at Village Dhunela & Berka, Sector 29, 30, 32 & 33, Tehsil Sohna, District Gurgaon, Haryana by M/s St. Patricks Realty Pvt. Ltd.**

**Project Proponent : Mr. Saurabh Bhardwaj**

**Consultant : Perfect Enviro**

The Project was submitted to the SEIAA, Haryana vide online Proposal No. SIA/HR/MIS/72537/2022 dated 09.03.2022 for obtaining Environmental Clearance under Category 8(b) of EIA Notification 14.09.2006. The Auto TOR has been granted to the project vide online dated 22.03.2022

The case was taken up in 236<sup>th</sup> meeting held on 27.03.2022. The PP presented the case before the committee

- The proposed project is ToR for the project Expansion of Residential Plotted Colony at Village Dhunela & Berka, Sector 29, 30, 32 & 33, Tehsil Sohna, District Gurgaon, Haryana by M/s St. Patricks Realty Pvt. Ltd.
- The Auto TOR has been granted to the project vide online dated 22.03.2022
- The PP submitted the copy of DD of Rs. 2 lakh as scrutiny fees in favour of MS, SEIAA

The details of the project, as per the documents submitted by the project proponent, and also as informed during the presentation in the meeting are as under:-

**Table 1: Basic Details**

<b>Name of the Project:</b> Expansion of Residential Plotted Colony at Village- Dhunela & Berka, Sector-29, 30, 32 & 33, Tehsil-Sohna, District-Gurgaon, Haryana by M/s St. Patrick's Realty Private Limited.				
<b>Sr. No.</b>	<b>Particulars</b>	<b>Existing (As per EC Granted)</b>	<b>Proposed</b>	<b>Total after Expansion</b>
	<b>Online Project Proposal</b>		SIA/HR/MIS/72537/2022	

**236<sup>th</sup> Video Conferencing (VC) Meeting of SEAC, Haryana, dated 27.03.2022**

	<b>Number</b>				
1.	Latitude		28°17'4.97"N		
2.	Longitude		77° 4'17.59"E		
3.	Plot Area		601,695.296	193,273.8867	794,969.1822
4.	Net Plot Area		581,076.722	166,798.2505	747,874.9726
8.	Total Built Up area		1,040,256	4,73,039	1,513,295
9.	Total Green Area with Percentage		181,877.01 (31.30 %)	52,956	234,833 (31.40 %)
10.	Rain Water Harvesting Pits		74	42	116
11.	STP Capacity		3000	1000	4000
12.	Total Parking		611	-	611
13.	Organic Waste Converter		-	-	8
14.	Maximum Height of the Building (m)		15	0	15
15.	Power Requirement		11097	6028	17,125
16.	Power Backup		1 x 900, 8 x 700, 3 x 600, 2 x 1000 (Standby), 1 x 800, 2 x 500, 1 x 400, 1 x 300, 2 x 630	06 x 1000 KVA + 03 x 750 KVA	1 x 900, 8 x 700, 3 x 600, 2 x 1000 (Standby), 1 x 800, 2 x 500, 1 x 400, 1 x 300, 2 x 630, 06 x 1000 KVA & 03 x 750 KVA
17.	Total Water Requirement		2424	1271	3695
18.	Domestic Water Requirement		1315	384	1699
19.	Fresh Water Requirement		1315	384	1699
20.	Treated Water		-	-	1733
21.	Waste Water Generated		-	-	1926
22.	Solid Waste Generated		11262 kg/day	3168 kg/day	14430 kg/day
23.	Biodegradable Waste		-	-	8,658 kg/day
25.	Dwelling Units/ EWS		No. of Plots- 1473	No. of Plots- 440	No. of Plots- 1913 (EWS-383, NPNL-479, Plots-1051)
26.	Salable Units		1473	440	1913
27.	Basement		2	0	2
28.	Community Center		1 No.	0	1 No.
29.	Stories		S+4	-	S+4
31.	Total Cost of the project:	i) Land Cost	808 Cr.	400.13 Cr.	1208 Cr.
		ii) Construction Cost			

The discussion was held on STP, self contained note, compliance report, EC, extension in validity of EC, Forest NOC, RWH, area under different establishment, TOR, CLU, Court cases etc. The Committee deliberated and decided to approve TOR and the project proponent will prepare the

**236<sup>th</sup>Video Conferencing (VC) Meeting of SEAC, Haryana, dated 27.03.2022**

EIA by using Model Terms of Reference of MoEF&CC with following additional Terms of Reference:

**Standard ToR**

- 1) Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
- 2) Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.
- 3) Examine baseline environmental quality along with projected incremental load due to the project.
- 4) Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio-economic and health.
- 5) Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project
- 6) Submit the details of the trees to be felled for the project.
- 7) Submit the present land use and permission required for any conversion such as forest, agriculture etc.
- 8) Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
- 9) Ground water classification as per the Central Ground Water Authority.
- 10) Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
- 11) Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
- 12) Examine soil characteristics and depth of ground water table for rainwater harvesting.
- 13) Examine details of solid waste generation treatment and its disposal.
- 14) Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
- 15) DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
- 16) Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analyzed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
- 17) A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
- 18) Examine the details of transport of materials for construction which should include source and availability.
- 19) Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
- 20) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
- 21) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 22) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 23) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to

**236<sup>th</sup>Video Conferencing (VC) Meeting of SEAC, Haryana, dated 27.03.2022**

the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".

#### Additional TOR

1. The PP shall submit the disaster management for gas pipe line and approval of competent authority for its a management or NOC
2. The PP shall submit the status of construction at the site.
3. The PP shall get the compliance regarding status of STP, RWH,OWC and green plan in the compliance report issued by RO, MOEF&CC
4. The PP shall also submit the details in tabular form and mosque plan of progress of STP, RWH, OWC, Green area for all EC granted earlier to the project
5. The PP shall submit the proof along with affidavit that no construction has been done after the expiry of EC.
6. The PP shall submit the certified compliance report from MOEF&CC.
7. The PP shall submit the green plan as per data/area approved vide EC dated 20.04.2021
8. The PP shall submit the copy of CTE/CTO/OC for the project till date
9. The PP shall submit the activity wise break up area of the project
2. The PP shall submit the duly approved plan.
3. The PP shall submit the drainage map with contour of each area of the project
4. The PP shall submit the position of existing and proposed area of the project on mosaic plan.
5. The PP shall submit the hydraulic design details of STP proposed at the site.
6. The PP shall submit the FAR for each component as per approved plan.
7. The PP shall submit the affidavit that no legal case is pending against the PP regarding land or any other issues of the project.
8. The PP shall submit the KLM file of the project site
9. The PP shall submit the land use details of the project
10. The PP shall submit the Geo Technical Studies
11. The PP shall submit the Population calculations as per NBC norms.
12. The PP shall submit the water requirement details in view of conservation measures.
13. The PP shall submit the seasonal testing reports of water, air, soil and noise
14. The PP shall submit the technology of water treatment, hydraulic design, dimensions of each component of each STP, MLSS standards to be achieved in each STP
15. The PP shall submit the Solid waste calculations and its management plan
16. The PP shall submit the traffic study incremental load analysis wr.t. current roads/status of connecting roads a up-gradation plan.
17. The PP shall submit the air dispersion modeling, sampling locations, wind rose, DG/vehicular emission data, AAQ data of seven locations.
18. The PP shall submit the ECBC Compliance with Energy saving and solar power details.
19. The PP shall submit the RWH details based on calculation @ 90 mm rain fall and double bore well for better sustainable RWH
22. The PP shall submit the parking calculations along with Map
23. The PP shall submit the tangible EMP Capital and recurring cost for the project
25. The PP shall submit the biodegradable waste management plan of the project along with organic waste convertor. The schematic diagramme for the management of organic waste and calculation along with mode of collection, segregation, transportation and disposal of complete Biodegrade waste.
26. The PP shall submit the proof and affidavit that no work has been carried out after the expiry of EC.
27. The PP shall submit the affidavit that the plot holders will seek separate EC, if the built up area is more than 20,000.

