

Ref No. Mannat/EIA/2024/91

Date: 17/12/2024

Shalimar Corp Limited

11th Fl., Titanium, Shalimar Corporate Park,

Vibhuti Khand, Gomti Nagar,

Lucknow - 226010, INDIA

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CIN : U70100DL1998PLC390006

To,

Regional Office,

Ministry of Environment, Forest & Climate Change

Kendriya Bhawan, 11th Floor, Sector-H,

Aliganj, Lucknow-226024,

Telefax: 0522-2324043

Subject: Post Environmental Clearance Compliance of Proposed Group Housing Project "Shere Shalimar Mannat" at Village Muhammadpur Chauki, Nawabganj, Barabanki, U.P. (Post-Monsoon Season, 2024)

Ref: EC Identification No. EC23B038UP169879, File No 7547-7345, Dated 19.12.2023.

Dear Sir,

This is to inform you that our project has been accorded Environmental Clearance from SEIAA, UP, vide EC Identification No. EC23B038UP169879, File No 7547-7345, Dated 19.12.2023.

We are herewith submitting point wise compliance as per conditions mentioned in the Environmental Clearance **(Post-Monsoon Season, 2024)** with latest Environmental Monitoring reports, in prescribed format along with the necessary Annexure for your kind consideration.

We hereby request your good office to kindly release compliance certificate at the earliest.

Thanking you,

Yours Sincerely,

For, **Shalimar Corp Ltd.**



Authorized Signatory

Encl: As above

Copy to:

1. **CEO (Circle-05), UPPCB, TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow (U.P.)**
2. **Member Secretary, SEIAA, Directorate of Environment, Vineet Khand 1, Gomti Nagar, Lucknow, UP.**



COMPLIANCE REPORT

**Group Housing Project “ Shere Shalimar Mannat”
at Khasra No.- 52,53,54A, 54B, 55,59,105,110-119, 121,123-128, 131, 139-144, Village-
Muhammadpur Nawabganj, Barabanki, U.P.,**

Project Proponent

M/s Shalimar Corp. Ltd.



Environment Consultant

Sawen Projects & Laboratories Pvt. Ltd.

NABL & OSHAS Accredited

**H. Off.: 417 A&B, 409 A, 4th Floor, Sahara Shopping Centre, Faizabad Road, Lucknow -
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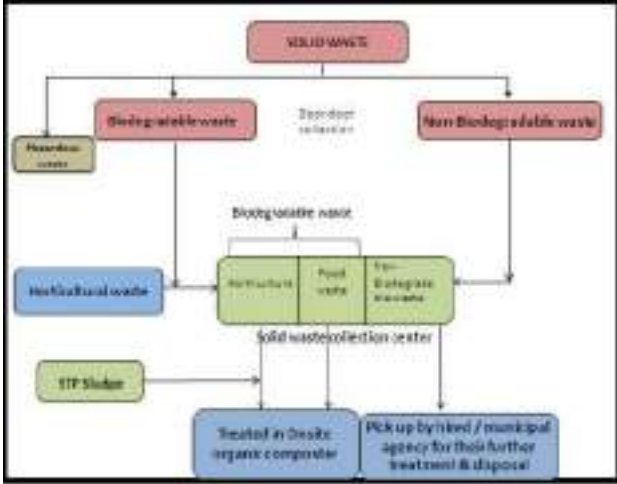
NABET Accreditation Number: NABET/EIA/2225/RA 0210: Valid Upto: 29.03.2025

Lab: SAWEN Projects & Laboratories Pvt. Ltd (NABL Accreditation Number-TC-5505)

**Compliance Report: Group Housing Project “ Shere Shalimar Mannat” at Khasra No.- 52,53,54A, 54B, 55,59,105,110-119, 121,123-128, 131, 139-144, Village- Muhammadpur Nawabganj, Barabanki, U.P.,
M/s Shalimar Corp. Ltd.**

Sr. No.	Conditions	Status
Additional Conditions		
1.	The project proponent shall submit within the next 3 months the details of solar power plant and solar electrification details within the project	Total Electric load: 3700 KW 20% Electric load i.e.: 740 KW Solar Heat Gain Coefficient (SHGC), Window Glazing U-value, and Overall Roof Assembly U-value) meet the baseline criteria of ECBC/IGBC/GRIHA
2.	The project proponent shall ensure to plant broad leaf trees and their maintenance. The CPCB guidelines in this regard shall be followed.	Green Area: 9921.69 m ³ Landscaping is proposed as per CPCB guidelines. List of trees and details attached as Annexure-1.
3.	The project proponent shall submit within the next 3 months the details on quantification of year wise CER activities along with cost and other details. CER activities must not be less 2% of the project cost. The CER activities should be related to mitigation of Environmental Pollution and awareness for the same like water harvesting pits and carbon sequestration parks / designed ecosystems .At least one school in the vicinity of project area should be provided with rooftop solar plant, toilets in public place or in school of nearby villages and if there is a girl” s school then girls toilet properly equipped with overhead water tank should be constructed.	The Ministry of Environment, Forest and Climate Change has firmed up guidelines that will require every corporate seeking Environment clearance to set aside up to 2% of its capital investment for Corporate Environment Responsibility (CER). The guidelines make it mandatory for companies to set aside funds for CER over and above what is required for executing the environment management plan in a project affected area. Sustainable development has many important components like social, economic, environmental, etc. and these components are closely inter- related and mutually reenforcing. Therefore, the general structure of EIA document, under Appendix-III to the notification, prescribes inter-alia public consultation, social impact assessment and R&R action plan besides environment management plan (EMP). The cost of CER is to be in addition to the cost envisaged for the implementation of the EIA/EMP which includes the measures for the pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV and Compensatory Afforestation, required, if any, and any other activities, to be derived as part of the EIA process. Some of the activities which can be carried out in CER, are 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

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		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.
4.	The project proponent shall submit within the next 3 months the details of estimated construction waste generated during the construction period and its management plan.	Construction waste generating from the site will be managed through C&D waste management rules, 2016. Total construction waste generated @ 40 kg/sq.m of Built-up (1, 67,227.62 m2) is 6689.1 MT.
5.	The project proponent shall submit within the next 3 months the details of segregation plan of MSW.	<p>It is being complied.</p> <p>Total Municipal waste: 3871 Kg/day.</p> <ul style="list-style-type: none"> ▪ A Door to Door and floor to floor system through service lift provided for collection of solid waste generated. ▪ Adequate number of colored bins (green and Blue - separate for Bio-degradable and Non Bio-degradable) provided. ▪ Provision of temporary storage of solid waste shall be done for 48 hours at site. ▪ Recyclable waste sold to authorized contractor/agencies. ▪ Hazardous waste (Spent Oil) & e-waste will be stored at separate place. Used oil will be sold off to authorized recyclers while there will be buy-back arrangements with the supplier for DG Set batteries. ▪ Litter bin will also be provided in open areas like commercial spaces, parks & play grounds etc.  <p align="center">Fig 2.6: Municipal Waste Management Flow Diagram</p>
6.	The project proponent shall	Total fresh water Requirement: 492 KLD

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	<p>ensure that waste water is properly treated in STP and maximum amount should be reused for gardening flushing system and washing etc. For reuse of water for irrigation sprinkler and drip irrigation system shall be installed and maintained for proper function. Part of the treated sewage, if discharged to sewer line, shall meet the prescribed standards for the discharge.</p>	<p>STP treated water for reuse: 246 KLD Total waste water generated: 594 KLD Capacity of STP: 800 KLD Technology of STP: Phytorid Technology</p> <p>246 KLD of Treated water reuse for gardening flushing system and washing etc.</p> <p>For reuse of treated water irrigation sprinkler and drip irrigation installed and regularly maintained for proper functioning.</p> <p>Remain treated water is discharged to sewer line as per the prescribed standards. STP outlet test report Annexed as <i>Annexure-2</i></p>
7.	Under any circumstances untreated sewage shall not be discharged to municipal sewer line.	<p>It is being complied.</p> <p>The total waste water generated is 594 KLD for which 800 KLD STP installed for the treatment of waste water.</p>
8.	The project proponent will ensure that proper dust control arrangements are made during construction and proper display board is installed at the site to inform the public the steps taken to control air pollution as per air act 1981 (as amended) and the Construction and Demolition Waste Management Rules, CAQM guidelines.	<p>It has been complied.</p> <p>Measures:</p> <ul style="list-style-type: none"> ▪ The dust emissions are being controlled by regular sprinkling of water during earthwork and construction cement bags are placed in covered areas. ▪ Sand and bricks shall be covered with gunny bags to avoid dispersion of material in air. ▪ The approach roads to the proposed site are good metaled roads, therefore during material handling there shall be least spread of dust in the environment. ▪ Scaffolding are covered, hosing down road surfaces and cleaning of vehicles especially during the dry season. ▪ Vehicles transporting loose construction material should be covered. ▪ Compaction of soil during various construction activities. ▪ Any dry, dusty materials stored in sealed containers or under tarpaulin to prevent from blowing.
9.	A certificate from Forest Department shall be obtained that no forest land is involved	<p>Not applicable</p> <p>There is no forest land involved in the project.</p>

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	and if forest land is involved the project proponent shall obtain forest clearance and permission of Central and State Government as per the provisions of Van Sanrakshan evam Samvardhan Adhiniyam,2023 and submit before the start of work.	
10.	If the proposed project is situated in notified area of ground water extraction, where creation of new wells for ground water extraction is not allowed, requirement of fresh water shall be met from alternate water sources other than ground water or legally valid source and permission from the competent authority shall be obtained to use it.	<p>It has been complied. Ground water NOC achieved from the Ground water Department. NOC Certificate no. NOC042105</p> <p>For reference Ground water NOC attached as <i>Annexure-3</i></p>
11.	Provision for charging of electric vehicles as per the guidelines of GoI / Go. UP should be submitted within the next 3 months.	<p>Provision for Electric Vehicle Charging Infrastructure (EVCI) as per the guidelines of GoI / GOUP is also proposed in the project.</p> <p>Based on the occupancy pattern and total parking provisions in the premises of the various building types, charging infrastructure shall be provided EVs which is currently assumed to be 20% of all „vehicle holding capacity” / „parking capacity” at the premises.</p> <p>Additionally, the building premises will have an additional power load equivalent to the power required for all the charging points to be operated simultaneously with safety factor of 1.25.</p>
12.	PP should display EC granted to them on their website. 6-monthly compliance report should be displayed on their website and to be given every six month to residents / occupants of the building.	It is being complied.
13.	EC is granted with the condition that EC is valid only for the building plan which has been submitted by PP for seeking EC. In case approved building plan is different from the one submitted for seeking EC then this EC will stand null	<p>Complied.</p> <ol style="list-style-type: none"> 1. EC Identification No.: EC23B038UP169879 2. File No.: 7547-7345 3. Project Type: Expansion 4. Category: B 5. Project/Activity including Schedule No.: 8(a) <p>Building and Construction projects</p>

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	and void.	<p>6. Name of Project: Construction of Proposed Expansion of Group Housing Project “Shere Shalimar Mannat, at village Muhammadpur Nawabganj, Barabanki,U.P.</p> <p>7. Name of Company/Organization: M/S SHALIMAR CORP. LTD</p> <p>8. Location of Project: UTTAR PRADESH</p> <p>9. TOR Date: N/A</p> <p>EC letter annexed as <i>Annexure -2</i></p>
14.	Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.	<p>It has been complied.</p> <p>Dust emissions are being controlled by regular sprinkling of water during earthwork and construction cement bags are placed in covered areas.</p> <p>Getting cement in a closed container rather through the plastic at the time of loading/unloading.</p>
15.	Project proponent should ensure that there will be no use of “Single use of Plastic” (SUP).	It is being complied.
16.	In compliance to Hon ^{ble} Supreme Court order dated 13/01/2020 in IA no. 158128/2019 and 158129/2019 in Writ petition no. 13029/1985 (MC Mehta Vs. GoI and others) anti-smog guns shall be installed to reduce dust during excavation.	It has been Complied.
17.	The project proponent will ensure that there is no mismatch/deviation between the project proposal submitted to SEIAA for environmental clearance and maps/drawings were approved by concerned development authority. In case of any mismatch/deviation, amended environmental clearance will be obtained by project proponent. In case of failure, the granted environmental clearance shall automatically deem to be cancelled.	<p>It has been complied.</p> <p>There is no mismatch/deviation between the project proposal submitted to SEIAA for environmental clearance and maps/drawings were approved by concerned development authority.</p> <p>Maps/Drawing are attached as <i>Annexure-3</i></p>
18.	The proponent should provide	It will be complied.

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	electric vehicle charging facility as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.	
19.	The project proponent should develop green belt in the housing scheme as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms. The project proponent will prepare working plan of plantation/green belt development showing type of plant species and their spacing in consultation with subject expert/ forest department and submit to the forest department and concerned regulatory authority and ensure their survival and sustainability	<p>It has been complied.</p> <p>The green area 9921.69 m² provided, for green development.</p> <p>To ensure a permanent green shield around the periphery planting is recommended in two phases.</p> <ul style="list-style-type: none"> ▪ In the first phase one row of evergreen and fast growing trees (which grows up to 10-15m) shall be planted at 3.0 m interval along with fast growing ground covers to enhance the water holding capacity, improve the organic content and check the soil erosion. ▪ In the second phase after eighteen months, second row of trees with large leaf surface area with large ever green canopy and longer life span shall be planted at 5.0 m intervals. <p>Greenbelt Design for Site</p> <p>The selection of plant species for the development depends on various factors such as climate, elevation and soil. The selection of the trees is based on their phenology (thus road side trees will not have leaf fall during summer and rainy seasons when shade is most needed).</p> <p>The criteria of the species are based on pollution mitigation capacity (including Particulate matter), large leaf surface area, deep root system and less litter fall. Faster growing trees with lighter canopy will be planted alternatively with relatively slow growing trees with wider canopy. Trees of about 6 m heights will be planted at 3 m intervals, 2.5 m away from the road curbing as per CPCB guidelines. Trees will be planted along the outer periphery at centerline of road between the set back line and the boundary of the plots. Palms and shrubs will be planted along the roads and around recreational lawns.</p> <p>List of Plant:</p> <p>1. General Pollution Abatement</p> <p><i>Tectona grandis</i> (Teak)</p> <p><i>Dalbergia sissoo</i> (Shisham)</p>

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		<p> <i>Butea monosperma</i> (Palash) <i>Azadirachta indica</i> (Neem) <i>Cassia fistula</i> (Amaltas) <i>Bauhinia variegata</i> (Kachnar) <i>Leucaena leucocephala</i> (Subabul) <i>Madhuca longifolia</i> (Mohua) <i>Mangifera indica</i> (Aam) <i>Millettia pinnata</i> (Karanj) <i>Tamarindus indica</i> (Imli) <i>Terminalia bellirica</i> (Baheda) <i>Terminalia chebula</i> (Harda) <i>Terminalia elliptica</i> (Saj) <i>Syzygium cumini</i> (Jamun) 2. Air Pollution Attenuation <i>Ficus glomerata</i> (Guler) <i>Terminalia tomentosa</i> (Asan) <i>Acacia auriculiformis</i> (Babul) <i>Polyalthia longifolia</i> (Debdaru) <i>Ficus benghalensis</i> (Banyan) <i>Mangifera indica</i> (Aam) <i>Nerium oleander</i> (Kaner) 3. Dust Absorbers <i>Azadirachta indica</i> (Neem) <i>Melia azaderach</i> (Mahaneem) <i>Butea monosperma</i> (Palash) <i>Cassia fistula</i> (Amaltas) <i>Bauhinia variegata</i> (Kachnar) <i>Terminalia arjuna</i> (Arjun) Refer Annexure-1 </p>
20.	Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.	It is being Complied.
21.	Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned	<p>It has been complied.</p> <p>We installed dual pipeline network in the project for utilization of treated water of STP for different purposes, like flushing, car washing, gardening, etc.</p>

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	authority.																																				
22.	<p>The project proponent will ensure full exploitation of potential of rain water harvesting for storage and recharging and also treated wastewater in order to reduce the withdrawal of fresh water and accordingly use the three sources of water supply namely stored rain water, treated wastewater and the fresh water. The project proponent shall also provide a flow measuring device along with flow integrator for monitoring the various sources of water supply namely fresh water, treated waste water and stored harvested rain water. The project proponent will submit revised water mass balance in the light of above to the directorate of Environment and the concerned regulatory authorities.</p>	<p>It is being complied.</p> <p>The rainwater will be collected through piped drains and conveyed into rainwater harvesting system. All storm water drains have been designed for adequate size and slope such that there shall not be any flooding in the site. It shall be ensured that no wastewater shall enter into storm water drainage system</p> <table><tr><th colspan="5">Peak Run off</th></tr><tr><th colspan="5">Max, Rainfall intensity 40mm/hr</th></tr><tr><th>Location</th><th>Runoff coefficient</th><th>Area (m²)</th><th>Rainfall Intensity</th><th>Peak runoff in m³/hr</th></tr><tr><td>Roof area</td><td>0.8</td><td>15621.39</td><td>0.04</td><td>500</td></tr><tr><td>Paved area</td><td>0.6</td><td>39257.21</td><td>0.04</td><td>942</td></tr><tr><td>Green area</td><td>0.2</td><td>9897.26</td><td>0.04</td><td>79</td></tr><tr><td colspan="4">Total Runoff m³/hr</td><td>1521</td></tr></table> <p>Total Runoff =1521 m³/hr (considering maximum rainfall @ 40 mm/hr) Retention Time for storm water: 1/3 hrs, Volume of runoff = 1521/3 =507 m³ Dimensions of a Recharge pit: (3m x 4m) and depth 3 m. Dimensions of a desilting tank (0.9m x 1.2m) and depth 1m. Size of a single Recharge pit = (3 x 4 x 3) m³ + (0.9 x 1.2 x 1) m³ = 37m³ Hence No. of pits required = 393/37= 13.7~14 pits Provided: 15 Pits No. of pits required for roof top harvesting: Retention time for storm water: 1/3 hrs Volume of runoff: 500/3 = 167 m³ Dimension of a single recharge pit as described above: 37 m³ No of pits required to cater roof top runoff: 167/37 = 4.5 pits = ~ 5pits Already constructed: 3 pit</p>	Peak Run off					Max, Rainfall intensity 40mm/hr					Location	Runoff coefficient	Area (m ²)	Rainfall Intensity	Peak runoff in m ³ /hr	Roof area	0.8	15621.39	0.04	500	Paved area	0.6	39257.21	0.04	942	Green area	0.2	9897.26	0.04	79	Total Runoff m ³ /hr				1521
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	construction water as per standards and specifications of relevant codes in order to prevent possible corrosion in concrete, reinforcements and other structural components in order to avoid adverse social and environmental impacts.	
24.	The project proponent will ensure exploitation of maximum possible potential of solar energy generation in the proposed project area and prefer to use it instead of conventional electricity in order to reduce the Green House Gas Emission causing climate change.	<p>It is being complied.</p> <p>15 KVA Capacity Solar plant installed</p> <p>Solar energy Use:</p> <ul style="list-style-type: none"> ▪ Solar lights in open areas and landscaped area with 50% dual lighting system. ▪ 50% street lighting will be powered by solar lighting. ▪ Passive solar cooling, utilizing building shading through overhangs. <p>Photographs annexed as <i>Annexure-5</i></p>
25.	The project proponent will make necessary arrangement to get Structural auditing conducted by an expert institution once in 5 years during life span of the building to ensure safe life of the residents and prevent environmental and social hazards.	<p>It is being complied.</p> <p>Structure stability certificate annexed as <i>Annexure-6</i></p>
Standard Environmental Clearance Conditions prescribed by MoEF&CC		
1. Statutory compliance		
1.	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	<p>It has been complied.</p> <p>We are obtaining all the necessary permission.</p>
2.	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc.	<p>It has been complied.</p> <p>We follow National building code, for structural safety of buildings.</p> <p>For structure stability certificate refer Annexure-6</p>

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	as per National Building Code including protection measures from lightning etc.	And for Fire NOC Annexure-7 Documents annexed as <i>Annexure-6</i>
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.	Not applicable
4.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not 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 concerned State Pollution Control Board/ Committee.	It has been complied. CTE: Ref. No. 63810/UPPCB/Lucknow(UPPCBRO)/ CTE/BARABANKI/2019. CTE certificate annexed as <i>Annexure-8</i>
6.	The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.	It has been complied. The Ground water NOC is achieved from the Ground water Department. NOC Certificate No. NOC042105 NOC attached as <i>Annexure-3</i>
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.	It has been complied. The total electrical load demand of the entire project is 3700 KVA. The power shall be made available from the State Electricity Board. Electricity backup DG sets: 3 Nos. 500 KVA each Document annexed as <i>annexure-9</i>
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.	It has been complied. Fire NOC annexed as <i>Annexure-7</i>
9.	The provisions of the Solid	It has been complied.

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	Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.	<p>Total Municipal waste generated: 3871 kg/day Total E-waste generated: 3.2 kg/day Horticulture waste: 37 kg/day STP Sludge: 23 kg/ day</p> <ul style="list-style-type: none"> ▪ Door to Door and floor to floor system through service lift shall be provided for collection of solid waste generated. ▪ Adequate number of colored bins (green and Blue - separate for Bio-degradable and Non Bio-degradable) are proposed to be provided. ▪ Provision of temporary storage of solid waste shall be done for 48 hours at site. ▪ Recyclable waste will be sold to authorized contractor/agencies. ▪ Hazardous waste (Spent Oil) & e-waste will be stored at separate place. Used oil will be sold off to authorized recyclers while there will be buy-back arrangements with the supplier for DG Set batteries. ▪ Litter bin will also be provided in open areas like commercial spaces, parks & play grounds etc.
10.	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	<p>It is being complied.</p> <p>Energy Efficient Features: Suitable energy optimization will be adopted during the calculation of energy load of the proposed project. Light Emitting Diode (LEDs) will be used in place of incandescent and halogen lamps in all common areas and basement parking.</p> <ul style="list-style-type: none"> ▪ Maximum utilization of natural light. ▪ LEDs & T-5 lighting fixtures in the common areas and Truelite fluorescent lamps in basements. ▪ Use of solar lights partly in open areas and landscaped area. ▪ Glazing glass: to keep the U value, SHGC, VT as per ECBC. ▪ External glazing will be below 40% of the total vertical surface as per ECBC. ▪ U-values of the roof, external wall and fenestration of the building will meet the requirements as specified in the Energy. ▪ Follow Measures (Solar Heat Gain Coefficient (SHGC), Window Glazing U-value, and Overall Roof Assembly U-value) meet the baseline criteria of ECBC/IGBC/GRIHA.

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		<ul style="list-style-type: none"> Ensure that the interior, exterior, common and parking area lightening power densities (LPD) meet the baseline values through “building area method.”
2. Air quality monitoring and preservation:		
1.	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	It is being complied.
2.	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	<p>It is being complied.</p> <p>The other major source of pollution during operational phase will be emissions from DG sets.</p> <p>During the post construction phase, cars, scooter/motorcycle will be owned by the residents of proposed complex. Vehicular emissions will be major sources of air pollution on approach road, bypass road and will depend upon the traffic density on the road at particular time.</p> <p>Quantum and dispersion of pollution from vehicular emission will depend upon the following.</p> <ul style="list-style-type: none"> Volume of traffic at the roads Meteorological conditions. Emission sources from automobiles engines (petrol/diesel) <p>Mitigation Measures</p> <ol style="list-style-type: none"> In the proposed complex, green belt is being developed in the form of Parks and along the internal roads, which will also works as barrier for the movement of pollutants. Required capacity DG sets will be provided at the Commercial Area & Common facilities in case of power failure. High Speed diesel (HSD) will be used which will result in lower emissions and increased efficiency.
3.	The project proponent shall install system to carryout Ambient Air Quality	<p>It is being complied.</p> <p>Ambient air quality parameters recommended for</p>

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	<p>monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.</p>	<p>monitoring the project are Particulate Matters (PM10, PM2.5), Carbon Monoxide (CO), Oxides of Nitrogen (NOx) and Sulphur Dioxide (SO2). These are to be monitored, right from the commencement of construction activity at selected locations on site, excavation works, residential areas near the project site etc.</p> <p>Data is generated once in a season excluding monsoon at the monitoring locations in accordance with the National Ambient Air Quality Standards formulated by MoEF through Notification on November 18, 2009.</p> <p>Air monitoring report annexed as <i>Annexure-10</i></p>
4.	<p>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.</p>	<p>It is being complied.</p> <p>During the excavation of channels, foundations, unloading of construction material, cement bags and mixing of cement with other building materials, fugitive dust emissions may be emitted at construction site. It may be noted that these emissions would be in the form of coarse particulate matter and will be settled down ultimately in the closed vicinity of construction site. Therefore, no significant impact is anticipated due to dust emission during development and construction phase.</p> <p>Mitigation measures</p> <ul style="list-style-type: none"> ▪ The excavated soil is being stored and used in landscaping. ▪ The dust emissions are being controlled by regular sprinkling of water during earthwork and construction cement bags are placed in covered areas. Sand and bricks shall be covered with gunny bags to avoid dispersion of material in air. ▪ The approach roads to the proposed site are good metalled roads, therefore during material handling there shall be least spread of dust in the environment. ▪ Scaffolding are covered, hosing down road surfaces and cleaning of vehicles especially during the dry season ▪ It is mandatory for all automobiles vehicles to maintain the quality of exhaust emissions within permissible standards. ▪ The ambient air quality is being monitored regularly to ensure that the activities at site are

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		<p>not polluting the ambient environment.</p> <ul style="list-style-type: none"> ▪ Pollution under Check (PUC) certificate provision at entry gate. 																								
5.	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	It is being complied.																								
6.	Wet jet shall be provided for grinding and stone cutting.	It is being complied.																								
7.	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	It is being complied.																								
8.	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.	<p>It is being complied.</p> <p>During construction phase, solid waste will be generated from labour camps, construction and other activities. The construction waste generated is</p> <table border="1"> <thead> <tr> <th>Construction waste material</th><th>Total construction waste generated @ 40 Kg/sq.m of change of the built up (10214.75)</th><th>409 (MT)</th></tr> </thead> <tbody> <tr> <td>Soil, Sand & Gravel</td><td>0.35</td><td>143</td></tr> <tr> <td>Bricks & Masonry</td><td>0.3</td><td>123</td></tr> <tr> <td>Concrete</td><td>0.25</td><td>102</td></tr> <tr> <td>Metal</td><td>0.05</td><td>20</td></tr> <tr> <td>Bitumen</td><td>0.0204</td><td>8</td></tr> <tr> <td>Wood</td><td>0.0204</td><td>8</td></tr> <tr> <td>Other</td><td>0.01</td><td>4</td></tr> </tbody> </table> <p>Mitigation Measures Waste management plan is being implemented that identifies and characterize every waste associated with proposed activities and which identifies the procedures for collection, handling, and disposal of each waste arising. Construction waste/ debris is being collected and suitably reused on site as per construction waste management plan.</p>	Construction waste material	Total construction waste generated @ 40 Kg/sq.m of change of the built up (10214.75)	409 (MT)	Soil, Sand & Gravel	0.35	143	Bricks & Masonry	0.3	123	Concrete	0.25	102	Metal	0.05	20	Bitumen	0.0204	8	Wood	0.0204	8	Other	0.01	4
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9.	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection)	<p>It is being complied.</p> <ul style="list-style-type: none"> ▪ Back up DG sets will comply with the applicable emissions norms. ▪ Adequate stack height for DG sets will be 																								

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	prescribed for air and noise mission standards.	<p>provided as per norms.</p> <ul style="list-style-type: none"> ▪ Back up DG sets will be used only during power failure. ▪ Regular monitoring of emissions from DG sets and ambient air quality will be carried out as per norms. ▪ DG sets will be installed in the basement to minimize the vibration and impact on ambient noise. ▪ DG room will be treated acoustically as per norms to control the noise from DG sets. ▪ Pumps, Compressors, DG sets etc. will be properly maintained for fuel efficiency and noise control. ▪ Personal protective equipment will be provided to the maintenance staff working in high noise areas. <p>Environment monitoring report annexed as <i>Annexure-</i></p>
10.	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. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	<p>It is being complied.</p> <p>DG set capacity: 500 KVA (3 Nos.) Stack height: 6 meter + Building height</p> <p>Adequate height of stacks will provided to the DG sets as per guidelines of CPCB to facilitate the dispersion of flue gases into the atmosphere. We planned the location of the DG set and exhaust pipe height as per the provisions of the Central Pollution Control Board (CPCB) norms. DG set test report annexed as <i>Annexure-11</i></p>
11.	For indoor air quality the ventilation provisions as per National Building Code of India.	It is being complied.
3. Water quality monitoring and preservation:		
1.	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage	<p>It is being complied.</p> <p>The project area falls in the drainage basin of Gomti River but is outside any flood plain. Runoff during rains makes way to natural drain and in storm water drains laid in the area.</p> <p>During construction phase, there is no impact anticipated on the drainage pattern of the project area.</p>

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	pattern and to harvest rain water.	
2.	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	It is being complied.
3.	Total fresh water use shall not exceed the proposed requirement as provided in the project details.	It is being complied. Fresh water consumption is 492 KLD (Ground water) only. Unit has installed the flow meter to measure the water quantity per day. Ground water NOC annexed as <i>Annexure-3</i>
4.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	It is being complied. Fresh water: 492 KLD (Ground water) Reuse of treated effluent from STP -246 KLD Total water requirement: 738KLD Runoff before Construction: Total runoff before construction = Runoff Coefficient x Area (m ²) x Rainfall intensity = 0.2 x 24338.96 x 0.04 = 195 m ³ /hr <ul style="list-style-type: none"> ▪ Rain water from paved and green areas will percolate naturally through capillary action and augment the water table. ▪ RWH will be initially done only from the roof top. However the rain water pits have been proposed for the whole area. ▪ Runoff from green and other open areas will be done only after permission from CGWB. ▪ Total Rain Water Harvesting Pits will be 14 in number. ▪ To measure the quantity flow meter are installed at the inlet & outlet. Water test report Annexed as <i>Annexure-12</i>
5.	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available.	It is being complied. Source: Primarily through private tankers arranged by the contractor Near the Project site Surface water test report annexed as <i>Annexure-13</i>

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	This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.	
6.	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	It is being complied. Open space provided: 49,032.04 m ² Paved area: 39,110.35 m ²
7.	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.	It is being complied. Dual pipe plumbing is installed to control the fresh water extraction.
8.	Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.	It is being complied. <ul style="list-style-type: none"> ▪ Using low flushing systems- using efficient water saving toilets with dual flush systems thus saving about 50 % of water. ▪ Sensor based fixtures – this reduces about 0.4 lit per flush. ▪ Low flow faucets along with other water saving devices resulting in 25 – 50% water. ▪ Low flow shower with rates at 7.5 lpm @ 80 psi. ▪ Other pressure reducing devices to reduce from 80 psi to 65 and 50 psi thus reducing water consumption by 10 – 25%. Use of Recycled Water To reduce the total water requirement, to reduce the dependability on ground water sources, to follow the guidelines of MoEF and to protect the environment, it is recommended to adopt recycling of treated effluent from On-site STP for flushing, horticulture, generator set cooling and any other low end uses.
9.	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	It is being complied.

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	plan.																																				
10.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	<p>It is being complied.</p> <p>Use of water through private tankers for construction activity.</p> <p>Use premixed concrete to reduce water demand.</p>																																			
11.	The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.	<p>It is being complied.</p> <p>Rain water harvesting recharge pits/storage tanks provided for ground water recharge as per the CGWB norms.</p>																																			
12.	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.	<p>It is being complied.</p> <p>The rainwater will be collected through piped drains and conveyed into rainwater harvesting system. All storm water drains have been designed for adequate size and slope such that there shall not be any flooding in the site. It shall be ensured that no wastewater shall enter into storm water drainage system</p> <table><tr><th colspan="5">Peak Run off</th></tr><tr><th colspan="5">Max, Rainfall intensity 40mm/hr</th></tr><tr><th>Location</th><th>Runoff coefficient</th><th>Area (m²)</th><th>Rainfall Intensity</th><th>Peak run off in m³/hr .</th></tr><tr><td>Roof area</td><td>0.8</td><td>15621.39</td><td>0.04</td><td>500</td></tr><tr><td>Paved area</td><td>0.6</td><td>39257.21</td><td>0.04</td><td>942</td></tr><tr><td>Green area</td><td>0.2</td><td>9897.26</td><td>0.04</td><td>79</td></tr><tr><td colspan="4">Total Runoff m³/hr</td><td>1521</td></tr></table> <p>Total Runoff =1521 m3/hr (considering maximum rainfall @ 40 mm/hr)</p>	Peak Run off					Max, Rainfall intensity 40mm/hr					Location	Runoff coefficient	Area (m ²)	Rainfall Intensity	Peak run off in m ³ /hr .	Roof area	0.8	15621.39	0.04	500	Paved area	0.6	39257.21	0.04	942	Green area	0.2	9897.26	0.04	79	Total Runoff m ³ /hr				1521
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		<p>Retention Time for storm water: 1/3 hrs, Volume of runoff = $1521/3 = 507 \text{ m}^3$ Dimensions of a Recharge pit: (3m x 4m) and depth 3 m. Dimensions of a desilting tank (0.9m x 1.2m) and depth 1m. Size of a single Recharge pit = $(3 \times 4 \times 3) \text{ m}^3 + (0.9 \times 1.2 \times 1) \text{ m}^3$ = 37 m^3 Hence No. of pits required = $393/37 = 13.7 \sim 14$ pits Provided: 15 Pits No. of pits required for roof top harvesting: Retention time for storm water: 1/3 hrs Volume of runoff: $500/3 = 167 \text{ m}^3$ Dimension of a single recharge pit as described above: 37 m^3 No of pits required to cater roof top runoff: $167/37 = 4.5$ pits = ~ 5 pits Already constructed: 3 pit</p>
13.	All recharge should be limited to shallow aquifer.	It is being complied.
14.	No ground water shall be used during construction phase of the project.	It is being complied. Use of water through private tankers for construction activity.
15.	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.	It is being complied.
16.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	<p>It is being complied. It is being complied.</p> <p>Fresh water: 492 KLD (Ground water) Reuse of treated effluent from STP -246 KLD Total water requirement: 738KLD Total Runoff = $1521 \text{ m}^3/\text{hr}$ (considering maximum rainfall @ 40 mm/hr) Retention Time for storm water: 1/3 hrs, Volume of runoff = $1521/3 = 507 \text{ m}^3$ Dimensions of a Recharge pit: (3m x 4m) and depth 3 m. Dimensions of a desilting tank (0.9m x 1.2m) and depth 1m. Size of a single Recharge pit = $(3 \times 4 \times 3) \text{ m}^3 + (0.9 \times 1.2 \times 1) \text{ m}^3$</p>

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		= 37m ³ Hence No. of pits required = 393/37= 13.7~14 pits
17.	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed in to municipal drain.	It is being complied. Phytorid technology for sewage treatment plant has been provided for utilization of the treated water in its different process to reduce the requirement of the fresh water consumption Detailed STP Document annexed as <i>Annexur-14</i>
18.	No sewage or untreated effluent water would be discharged through storm water drains.	It is being complied.
19.	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted	It is being complied. 800 KLD STP (Phytorid technology) for sewage treatment plant has been provided for treatment of waste water generated within the premises and utilization of the treated water in its different process to reduce the requirement of the fresh water Consumption. Treated water reused on site for landscape, flushing, cooling tower, and other end-uses. Refer <i>Annexure-14</i>
20.	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problem from STP.	It is being complied.
21.	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental	It is being complied. Estimated STP sludge: 23 Kg/day

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	Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.																							
4. Noise monitoring and prevention:																								
1.	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.	<p>It is being complied.</p> <p>Noise attributed to roads depends on factors such as traffic intensity, the type and condition of the vehicles plying on the road, acceleration/deceleration/gear changes by the vehicles depending on the level of congestion and smoothness of road surface (IRC: 104-1988). High noise levels are a concern for sensitive receptors, i.e., hospitals, educational institutions, etc.</p> <p>The Central Pollution Control Board has specified ambient noise levels for different land uses for day and night times. Importance was given to the timing of exposure and areas designated as sensitive.</p> <table><tr><th rowspan="2">Area code</th><th rowspan="2">Category</th><th colspan="2">Limits in decibels (dB A)</th></tr><tr><th>Day Time</th><th>Night Time</th></tr><tr><td>A</td><td>Industrial</td><td>75</td><td>70</td></tr><tr><td>B</td><td>Commercial</td><td>65</td><td>55</td></tr><tr><td>C</td><td>Residential</td><td>55</td><td>45</td></tr><tr><td>D</td><td>Silent zone</td><td>50</td><td>40</td></tr></table> <p>Source: Central Pollution Control Board, New Delhi</p> <p>As per Noise (Control and Regulation) Rules, 2000. Noise monitoring data annexed as <i>Annexure-15</i></p>	Area code	Category	Limits in decibels (dB A)		Day Time	Night Time	A	Industrial	75	70	B	Commercial	65	55	C	Residential	55	45	D	Silent zone	50	40
Area code	Category	Limits in decibels (dB A)																						
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C	Residential	55	45																					
D	Silent zone	50	40																					
2.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	It is being complied.																						
3.	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due	<p>It is being complied.</p> <p>D.G. Sets will be silent type with anti vibration pads fitted in acoustic enclosures to control the noise generated.</p> <p>Adequate personnel protective equipment (PPE) will be</p>																						

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	to ground sources.	provided to the personnel engaged in D.G. Set room. Proposed rows of plantation will further restrict the noise on either side of the plantation.
5. Energy Conservation measures:		
1.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.	<p>It is being complied.</p> <p>Energy Efficient Features: Suitable energy optimization will be adopted during the calculation of energy load of the proposed project. Light Emitting Diode (LEDs) will be used in place of incandescent and halogen lamps in all common areas and basement parking.</p> <ul style="list-style-type: none"> ▪ Maximum utilization of natural light. ▪ LEDs & T-5 lighting fixtures in the common areas and Truelite fluorescent lamps in basements. ▪ Use of solar lights partly in open areas and landscaped area. ▪ Glazing glass: to keep the U value, SHGC, VT as per ECBC. ▪ External glazing will be below 40% of the total vertical surface as per ECBC. ▪ U-values of the roof, external wall and fenestration of the building will meet the requirements as specified in the Energy. ▪ Follow Measures (Solar Heat Gain Coefficient (SHGC), Window Glazing U-value, and Overall Roof Assembly U-value) meet the baseline criteria of ECBC/IGBC/GRIHA. <p>Ensure that the interior, exterior, common and parking area lightening power densities (LPD) meet the baseline values through “building area</p>
2.	Outdoor and common area lighting shall be LED.	<p>It is being complied.</p> <p>LED lighting in the common areas</p>
3.	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values	<p>It is being complied.</p> <p>Passive solar cooling, utilizing building shading through overhangs. Use of Solar power for water heating, street light and open area. Use of solar energy for street lighting and signage.</p> <p>Building envelope measures (Solar Heat Gain Coefficient (SHGC), Window Glazing U-value, and Overall Roof Assembly U-value) meet the baseline criteria of ECBC/IGBC/GRIHA.</p>

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	shall be as per ECBC specifications.	Photographs attached- Refer <i>Annexure-5</i>
4.	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.	It is being complied. For energy conservation Solar Heating, Day Lighting, Design Natural Ventilation, Thermal Transfer value of Building Material, Energy Efficient Building Services and Equipment, Public Area Lighting Exterior Lighting, use of sensors etc. are adopted.
5.	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.	It is being complied.
6.	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	It is being complied. To reduce the power load on grid 50% street lighting will be powered by solar lighting. LEDs will be used in place of sodium lamps. Passive solar cooling, utilizing building shading through overhangs Use of Solar power for water heating, street light and open area. Photographs attached- Refer <i>Annexure-5</i>
6. Waste Management :		
1.	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.	It is being complied. Solid waste generated from the project after full occupancy will be mainly domestic waste. The solid waste so generated shall be first segregated as plastic, glass, paper and other waste separately. The recyclable inorganic waste will be sold to registered buyers. The biodegradable wastes will be transferred into a designated collection point for disposal by municipal authority/hired agency. Total Solid waste generated: Approx. 3871Kg/day (3.8T/day)

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		<p>Horticulture Waste: 37 Kg/Day E-Waste: 3.2 Kg/Day STP sludge of waste water): 23 kg/day</p> <ul style="list-style-type: none"> ▪ A Door to Door and floor to floor system through service lift shall be provided for collection of solid waste generated. ▪ Adequate number of colored bins (green and Blue - separate for Bio-degradable and Non Bio-degradable) are proposed to be provided ▪ Provision of temporary storage of solid waste shall be done for 48 hours at site. ▪ Recyclable waste will be sold to authorized contractor/agencies. ▪ Hazardous waste (Spent Oil) & e-waste will be stored at separate place. Used oil will be sold off to authorized recyclers while there will be buy-back arrangements with the supplier for DG Set batteries. ▪ Litter bin will also be provided in open areas like commercial spaces, parks & play grounds etc.
2.	Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	It is being complied.
3.	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	<p>It is being complied.</p> <p>The solid waste generated will be first segregated as plastic, glass, paper and other waste separately. The recyclable inorganic waste will be sold to registered buyers. The biodegradable wastes will be transferred into a designated collection point for disposal by municipal authority/hired agency.</p>
4.	Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.	<p>It is being complied.</p> <p>Organic waste: Waste vegetables and foods etc. Inorganic waste: Papers, cartons, Thermocol, plastics, polythene bags, glass etc.</p> <p>The biodegradable wastes will be transferred into a designated collection point for disposal by municipal</p>

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		authority/hired agency.
5.	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	It is being complied. The recyclable inorganic waste will be sold to registered buyers.
6.	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	It is being complied. Hazardous waste (Spent Oil) & e-waste will be stored at separate place. Used oil will be sold off to authorized recyclers while there will be buy-back arrangements with the supplier for DG Set batteries. Used / spent oil from DG sets will be sold to registered recyclers.
7.	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.	It is being complied. Use of fly ash in building construction.
8.	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.	It is being complied.
9.	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.	It is being complied. The construction waste generated is being reused within the project area. The slash material is not being treated as waste as it has salvage value, which will earn revenue to the project. Thus, burning of construction waste which causes health hazard to the construction labors is not envisaged. Waste Management: Waste management plan is being implemented that

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		<p>identifies and characterize every waste associated with proposed activities and which identifies the procedures for collection, handling, and disposal of each waste arising.</p> <p>Construction waste/ debris is being collected and suitably reused on site as per construction waste management plan.</p>
10.	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	<p>It is being complied.</p> <p>Total E waste: 3.2 Kg/day</p> <p>E-waste will be handed over to authorized dealers.</p>
7. Green Cover:		
1.	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	No tree cutting involve in this projet.
2.	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.	<p>It is being complied.</p> <p>Green area: 9921.69 sqm.</p> <p>The selection of plant species for the development depends on various factors such as climate, elevation and soil. The selection of the trees is based on their phenology (thus road side trees will not have leaf fall during summer and rainy seasons when shade is most needed).</p> <p>The criteria of the species are based on pollution mitigation capacity (including Particulate matter), large leaf surface area, deep root system and less litter fall. Faster growing trees with lighter canopy will be planted alternatively with relatively slow growing trees with wider canopy. Trees of about 6 m heights will be planted at 3 m intervals, 2.5 m away from the road curbing as per CPCB guidelines. Trees will be planted along the outer periphery at centerline of road between the set back line and the boundary of the plots. Palms and shrubs will be planted along the roads and around</p>

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		recreational lawns.
3.	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.	It is being complied.
4.	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	It is being complied.
8. Transport:		
1.	<p>A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.</p> <p>a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</p> <p>b. Traffic calming measures.</p> <p>c. Proper design of entry and exit points.</p> <p>d. Parking norms as per local regulation.</p>	<p>It is being complied.</p> <p>Road network:</p> <ul style="list-style-type: none"> ▪ A well-planned road network both within the township and connecting to the nearest highway or main road plan to establish so that proper communication links are establish. ▪ Adequate parking provisions are made to cater the occupants as well as visitors. ▪ The parking provisions will take into consideration the two wheelers and four wheelers. It is also desirable to design parking facilities with basement / stilts parking to reduce the heat island effect. When inevitable the surface parking planned should cover issues to address heat island effect. ▪ Elimination of risks to children and old people in crossing the internal roads to reach play areas and recreational facilities. ▪ Traffic calming is required. The tools of traffic calming include:- ▪ Installation of speed humps by raising the surface of the street in certain spots.

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		<ul style="list-style-type: none"> ▪ Narrowing the street to give drivers the feeling they are in a crowded place, which will make them slow down and totally or partially blocking half the entrance to a side street so drivers cannot turn in but still can come out. ▪ Speed table, build outs etc. ▪ Space for vehicles at the ▪ entrance gate for checking before entry. <p>Parking Facility: Provided: 1331 ECS + 298 parking space for two wheelers in EWS</p>
2.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.	<p>It is being complied.</p> <p>Properly tuned construction machinery and vehicles in good working condition with low noise and emission will be used and engines will be turned off when not in use.</p> <p>Vehicle use during construction phase, will properly check (PUC) and in good condition.</p>
3.	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the	<p>It is being complied.</p> <p>It is observed from the traffic count that the maximum capacity of the road utilized near site in the morning and evening peak hours are about 56% and 59% respectively. The vehicle from the project will increase car and two wheeler traffic load along the road during peak hours. However, since present load is lean, increase in traffic load may not lead to traffic congestion problem.</p> <p>Mitigation Measures: The project complex has a bell shaped traffic entry/exit from service lane on NH-28 (Faizabad Road) on North of the project site. The internal roads of 18m, 15m, 14m, 9m, & 6m wide are provided within the project site. The entry/exit points have been marked on the layout plan.</p>

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	participation of these departments.	
9. Human health issues :		
1.	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	<p>It is being complied.</p> <ul style="list-style-type: none"> ▪ Contractors will be advised to provide dust masks for the employed labour ▪ Dust suppression through water sprinkling using water trucks, handheld sprays and automatic sprinkler systems. • Vehicles transporting loose construction material should be covered. • Compaction of soil during various construction activities. • Any dry, dusty materials stored in sealed containers or under tarpaulin to prevent from blowing. • Vehicle trips to be minimized to the extent possible. • Tyre washing at entry and exit points to prevent transportation of soil and dust, to and fro from the site.
2.	For indoor air quality the ventilation provisions as per National Building Code of India.	<p>It is being complied.</p> <ol style="list-style-type: none"> 1. Perform a building flush out before occupancy. 2. Contaminants such as CO, CO₂ and VOCs to be dispersed by providing adequate ventilation. 3. Ventilation for the basement to flush out the stale air. 4. Use of Green Seal low VOC paints
5.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<p>It is being complied.</p> <p>This stage is crucial to both on site and off site emergency planning and requires to systematically identifying what emergencies could arise. These should range from small events, which can be dealt with by onsite personnel without outside help to the largest event for which it is practical to have a plan. Experience has shown that for every occasion that the full potential of an accident is realized, there are many occasions when some freak event occurs or when a developing incident is made safe before reaching full potential.</p> <ul style="list-style-type: none"> • The assessment of possible incidents should produce a report indicating. • The worst events considered\The route to those worst events

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		<ul style="list-style-type: none"> • The time scale to lesser events along the way • The size of lesser events if their development is halted • The relative likelihood of events • The consequences of each event\ <p>It is not easy to control any disaster if contingency plans are not available. For effective control of disaster adequate manpower, technical know- how, alertness and internal help are the prime requirements. It is always better to take preventive measures to avoid any disaster. In the proposed project following prevention measures will be taken to prevent disaster:</p> <ol style="list-style-type: none"> 1. Design, manufacture and construction of the building will be as per national and international codes as applicable in specific cases and laid down by the appropriate statutory authorities. 2. Routes for escape during disaster are provided. <p>Guidelines for Disaster Management Plan</p> <p>A Disaster Management Plan (DMP) is formulated for better and safe management. The DMP will include the following elements:</p> <ul style="list-style-type: none"> • Assessment of the size and nature of the events foreseen and the probability of their occurrence. • Formulation of the plan and liaison with authorities, including the emergency services. • Appointment of key personnel and their duties and responsibilities • Action on-site • Action off-site
6.	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.	<p>It is being complied.</p> <p>Use of Mobile toilets & Mobile STP during construction phase and reutilization of treated water for construction purposes.</p> <p>Provision as per Construction safety:</p> <ul style="list-style-type: none"> • Provision of Safety Committee Meeting • Safety In-charge wherein 500 or more workers are employed • Provision of Crèche facility wherein 40 or more woman workers are employed. • Medical and first aid facility with Ambulance and trained driver. • Canteen wherein 250 or more woman workers

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		are employed. • Sanitary and safe drinking water facilities.
7.	Occupational health surveillance of the workers shall be done on a regular basis.	It is being complied.
8.	A First Aid Room shall be provided in the project both during construction and operations of the project.	It is being complied. Medical and first aid facility with Ambulance and trained driver is provided.
10. Corporate Environment Responsibility:		
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	<p>It is being complied.</p> <p>The Ministry of Environment, Forest and Climate Change has firmed up guidelines that will require every corporate seeking Environment clearance to set aside up to 2% of its capital investment for Corporate Environment Responsibility (CER). The guidelines make it mandatory for companies to set aside funds for CER over and above what is required for executing the environment management plan in a project affected area. Sustainable development has many important components like social, economic, environmental, etc. and these components are closely inter- related and mutually reenforcing. Therefore, the general structure of EIA document, under Appendix-III to the notification, prescribes inter-alia public consultation, social impact assessment and R&R action plan besides environment management plan (EMP)</p> <p>The cost of CER is to be in addition to the cost envisaged for the implementation of the EIA/EMP which includes the measures for the pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV and Compensatory Afforestation, required, if any, and any other activities, to be derived as part of the EIA process.</p> <p>Some of the activities which can be carried out in CER, are 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</p>

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		works, avenue plantation, plantation in community areas, etc.												
2.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	It is being complied.												
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	<p>It is being complied.</p> <p>Environmental Management Cell (EMC)</p> <p>The responsibilities of the various members of the environment management cell are given in following table:</p> <table border="1"> <thead> <tr> <th>S.No .</th><th>Designation</th><th>Proposed Responsibility</th></tr> </thead> <tbody> <tr> <td>1.</td><td>President of Society</td><td>Overall responsibility for environment management and decision making for all environmental issues</td></tr> <tr> <td>2.</td><td>Secretary</td><td>Hires a consultant and fulfils all legal requirements as per MoEF/ UPPCB/ CPC</td></tr> <tr> <td>3.</td><td>Supervisor</td><td>Ensure environmental monitoring as per appropriate procedures.</td></tr> </tbody> </table>	S.No .	Designation	Proposed Responsibility	1.	President of Society	Overall responsibility for environment management and decision making for all environmental issues	2.	Secretary	Hires a consultant and fulfils all legal requirements as per MoEF/ UPPCB/ CPC	3.	Supervisor	Ensure environmental monitoring as per appropriate procedures.
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		<p>EMC:</p> <p>The developer shall continue an Environmental Management Cell after handover of the flats or any other suitable appointed authority. The EMC shall be responsible for the Implementation of environmental management plans and pollution control measures within the proposed project. EMC shall have regular meetings and look after the following:</p> <ol style="list-style-type: none"> 1. Operation, maintenance and monitoring of the sewage system. 2. Arrange periodical monitoring of air pollution, noise pollution. 3. Maintenance of roads, gardens, roadside plantations and aesthetic development along roadsides and parks. 4. Checking of Firefighting arrangements and first-aid boxes. 5. Checking of security arrangements. 6. Maintenance of records of power consumption for lifts, pump house, street lighting and for other common services. 7. Keep records of expenditure on maintenance of lifts, parks, sub-station equipment” s including replacement of bulbs and tubes for street lighting and common area. 8. Take immediate action in case of emergency arising due to accident, fire, gas leakage or any natural disaster. 9. Updating of Emergency Action Plan. 10. Disaster Management Plan 11. Corporate Social Responsibility Scheme
4.	<p>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.</p>	<p>It is being complied.</p> <p>To assess whether the implemented EMP is adequate, periodic environmental audits will be conducted by the Environmental Division. These audits will be followed by corrective action plans (CAP) to correct various issues identified during the audits.</p> <p>Monitoring program has the underlying objective to ensure that the intended environmental mitigations are realized and these results in desired benefits to the target population causing minimal deterioration to the environmental parameters. Such program targets proper implementation of the EMP. The broad objectives are:</p> <ul style="list-style-type: none"> ▪ To evaluate the performance of mitigation measures proposed in the EMP. ▪ To evaluate the adequacy of Environmental Assessment. ▪ To suggest ongoing improvements in management plan based on the monitoring and to

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		<p>devise fresh monitoring on the basis of the improved EMP.</p> <ul style="list-style-type: none"> ▪ To enhance environmental quality through proper implementation of suggested mitigation measures. ▪ To meet the requirements of the existing environmental regulatory framework and community obligations. <p>The purpose of environmental monitoring is to evaluate the effectiveness of implantation of Environmental Management Plan (EMP) by periodically monitoring the important environmental parameters within impact area, so that any adverse effects are detected and timely action can be taken.</p>
11. Miscellaneous:		
1.	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.	It is being complied.
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	It is being complied.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	It is being complied.
4.	The project proponent shall submit six-monthly reports on	Agreed;

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	the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	
5.	The project proponent shall submit the environmental statement for each financial year in FormV 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.	Agreed;
6.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Agreed.
7.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	It is being complied.
8.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	It is being complied.
9.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed.
10.	Concealing factual data or submission of false/fabricated	Agreed.

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	data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
11.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
12.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed;
13.	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.	Agreed.
14.	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.	It will be complied.
15.	Any appeal against this EC shall lie with the National	Agreed;

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	Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
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Annexure -1 (Landscaping Plan)

List of Plant:

1. General Pollution Abatement

Tectona grandis (Teak)

Dalbergia sissoo (Shisham)

Butea monosperma (Palash)

Azadirachta indica (Neem)

Cassia fistula (Amaltas)

Bauhinia variegata (Kachnar)

Leucaena leucocephala (Subabul)

Madhuca longifolia (Mohua)

Mangifera indica (Aam)

Millettia pinnata (Karanj)

Tamarindus indica (Imli)

Terminalia bellirica (Baheda)

Terminalia chebula (Harda)

Terminalia elliptica (Saj)

Syzygium cumini (Jamun)

2. Air Pollution Attenuation

Ficus glomerata (Guler)

Terminalia tomentosa (Asan)

Acacia auriculiformis (Babul)

Polyalthia longifolia (Debdaru)

Ficus benghalensis (Banyan)

Mangifera indica (Aam)

Nerium oleander (Kaner)

3. Dust Absorbers

Azadiarchta indica (Neem)

Melia azaderach (Mahaneem)

Butea monosperma (Palash)

Cassia fistula (Amaltas)

Bauhinia variegate (Kachnar)

Terminalia arjuna (Arjun)

Plantation Details



1st Year Plan to 5th Year Plan

- Company should provide all necessary facilities for irrigation of greenbelt in good condition and necessary maintenance of irrigation facilities should be done regularly.
- Company should regularly assess survival rate of planted trees & shrub and if required necessary re-plantation should be done to ensure healthy & dense greenbelt area in its premises.
- Company should do fertilization as required for healthy greenbelt development.
- For plantation, if required, company should acquire saplings from local private/government (Forest & Other) nursery.
- Company should ensure survival rate above 80% to ensure adequate greenbelt and canopy cover in 35% of its total area at any time.

Management Period

- The properly designed greenbelt area, irrigation facilities, Sapling storage & maintenance area and storage for greenbelt development resources/tools etc. should be provided in construction phase prior to commissioning of plant operation. The necessary structural maintenance should be done throughout the extent of operation phase.
- The greenbelt development guidelines and five-year program should be initiated with inception of construction phase of project and should be implemented & practiced as routine throughout the project life

Annexure-2

STP outlet Test report



SAWEN PROJECTS & LABORATORIES PVT. LTD.

PAN INDIA

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ISO 9001 : 2008 OHSAS 18001:2007 TEST REPORT CIN No.: U24233UP2009PTC037307

Sample Code No.: SPLPL-4671A

Source: STP Outlet Plant

Sample collected on: 04.12.2024

Sample received on: 04.12.2024

Date of Test: 04.12.2024-17.12.2024

Sampling Done By: Mr. Dharendra

Sampling Procedure No.: SPLPL-SOP-18

Nature of Sample: STP Outlet Water

Report No.: SPLPL/ STP/4671A/24

Issue Date: 18.12.2024

Type of Test Conducted: Physico Chemical Analysis

Packing seal & Signature: Plastic Jarican with seal and signature

Condition of the Sample: Clear Water in Plastic Jarican

Quantity: 5 liters

Name & Address of Industry: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

Sl.	PARAMETERS TESTED	TEST PROTOCOL	OBSERVED VALUE (mg/l)	MoEF&CC Effluent Discharge Standards for Sewage Treatment Plant (w.e.f 13.10.2017) Concentration not to exceed
1.	pH	4500-H B APHA 24 th Edition 2023	7.32	6.5 to 9.0
2.	Total Suspended Solids (TSS) (mg/L)	2540 D APHA 24 th Edition 2023	42.0	50 mg/L
3.	Chemical Oxygen Demand, COD (mg/L)	5220 B APHA 24 th Edition 2023	65.3	-
4.	Bio-chemical Oxygen Demand, BOD (mg/L)	IS 3025(Part-44):1993; (Reaff 2009)	13.7	20mg/L
5.	Oil & Grease (mg/L)	5520 B APHA 24 th Edition 2023	2.5	--

Note:

1. This report refers only to the job/ submitted for testing. It should not be reproduced except in full.
2. Unused balance of samples shall be destroyed after one month from the date of issue of test report, unless otherwise specified.

Interpretation: The above tested sample does confirm to Standard of STP treated water w.r.t above tests.

For Sawen Projects & Laboratories Pvt. Ltd.

(Salyendra Singh)
Authorized Signatory

Total Environment Services

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• GEO TECHNICAL INVESTIGATION • R&D • PHARMACEUTICALS • COSMETIC • MOBILE SOIL/WATER/FERTILIZER TESTING KIT
Securing Environmental Clearances From MOEF/SEIAA • Securing NOC from SPCB • EIA • ESIA/SIA • ESG • EMP • OMP • Env/Energy Audit
• DPR • Feasibility Reports • Water & Effluent Management Studies • E Waste Management • Municipal Solid Waste Management • Hazardous Waste Management • Bio Medical Waste Management • RR Survey/Poverty & Social Impact Assessment Report • Rock Engineering Report • Risk Assessment
• Disaster Management Plan • Pollution Control Systems (Turnkey Basis) • ETPs • WTPs • STPs • FSTPs • APCs • R.O. Systems • Rain Water Harvesting

Laboratories: Hall No. 2, 10 & 14, LDA Commercial Complex, Vibhav Khand, Gomti Nagar, Lucknow - 226 010 (U.P.)

Annexure-3 Ground water NOC



GROUND WATER DEPARTMENT

(Narmada Ganga & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (C)

[See Rule 8(1)]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW / EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: NOC042105

VALID FROM 09/02/2023 TO 08/02/2028

[UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019]

Registration No.: 202212090494			
Name of the Owner	SHEO JANAM CHAUDHARI	Company Name	Shalimar Corp Ltd.
Designation	CEO	कंपनी का नाम	
Company Address	A2/3, F.F., Seeladurg Enclave DELHI South Delhi	Authorization Letter	Download
कंपनी का पता		प्राधिकार पत्र	
Address of the Applicant	11TH FLOOR, TITANUM, SHALIMAR CORPORATE PARK, VISHUJI KHAND, GOMTI NAGAR, LUCKNOW	Application No.	BRBK1222NDU0003
Date of Submission	14/12/2022	Specimen Signature	
Location Particulars			
District	Banki	Block	BANKI
Plot No./Khasra No.	62,64A,64B,115,116,117,118,121,123,124	Municipality/Corporation	No
Ward No./Holding No.			N/A
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	09/10/2019		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	53.00
Purpose of well	Bulk User	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	7.50
Operational Device	Electric Motor	Rate of Withdrawal (m ³ /hr.)	50.00
Date of Energization (In Case of Electric Pump)		18/10/2019	

Maximum Allowable Rate of Withdrawal (m³/hr.):	50.00	Maximum Allowable Running Hours Per Day:	3.00
Maximum Allowable Annual Extraction of Ground Water:	54750	Recharge Required	27375.00

- This No-Objection certificate authorizes the owner/applicant (user) to sink a well in the location specified at Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3), for Running Hours per day as shown at Sl. (3a), and for maximum allowable annual extraction of ground water as shown at Sl. (3b) and is valid subject to the observance of the conditions stated overleaf.
- Holder of this NOC is hereby directed to assure annual recharge of 27375.00 cubic meter, as specified under the application form within the given time period.

GENERAL CONDITIONS:

- Holder of this NOC is hereby directed to fill from T(A) for registering his/her well within 90 days as mentioned in application form shall only started after registration of his/her NOC.
- In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- All Users abstracting ground water in excess of 100 m³/d shall be required to submit impact assessment report prepared by an accredited consultant from CGWA and National Accreditation Board for Education and Training (NABET). The report should highlight environmental risks and proposed management strategies to overcome any significant environmental issues such as ground water level decline, land subsidence etc. within three months of completion of the same to Ground Water Department Uttar Pradesh. The list of accredited individual/institutions is available on the official web-portal of CGWA.
- For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to ISI/IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well shall not exceed to the recorded rate from water meters.
- The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- In case of any change of ownership of the existing well, fresh registration has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the existing well of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- In case, any of the particulars / information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- **Guidelines for installation of Piezometers and their Monitoring**

Piezometer is a borewell/tubewell used only for measuring the water level by lowering the taper sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing when ever needed. General guidelines for installation of piezometers are as follows:

- The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
- The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted, if, more than one piezometers are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
- No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No. of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm, the reported measurement should be given in meter upto two decimal.
- For measurement of water level sounder or automatic water level recorder (AWLR) Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone tapped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.

- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/Tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site specific requirement regarding safety and access for measurement may be taken care of.
- Any other condition(s) that may be imposed by the concerned Authority.
- In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect, during verification at any subsequent stage, this permit is liable for cancellation.
-
- **SPECIFIC CONDITIONS:**
- **(A) For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
 - iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC)/ FPD Chamber of Commerce & Industries / Laghu Udyog Bharat certified auditors and submit audit reports within three months of completion of the same to Ground Water Department, Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
 - iv) Construction of observation well(s) (piezometer(s)) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³ /day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
 - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
 - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
 - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
-
- **(B) Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date: 23/02/2023

Place:Varanasi

This certificate is electronically generated and does not require digital signature

Annexure-4

ENVIRONMENTAL CLEARANCE	 Government of India Ministry of Environment, Forest and Climate Change (Issued by the State Environment Impact Assessment Authority (SEIAA), UTTAR PRADESH)																		
PARIVESH <i>(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)</i>	To, The Director M/S SHALIMAR CORP. LTD Titanium Block, 11th Floor, Shalimar Corporate Park, Vibhuti Khand, Lucknow, U.P. -226016																		
	Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding																		
	Sir/Madam, This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/UP/INFRA2/414710/2023 dated 17-Jan-2023. The particulars of the environmental clearance granted to the project are as below.																		
	<table><tbody><tr><td>1. EC Identification No.</td><td>EC23B038UP169879</td></tr><tr><td>2. File No.</td><td>7547-7345</td></tr><tr><td>3. Project Type</td><td>Expansion</td></tr><tr><td>4. Category</td><td>B</td></tr><tr><td>5. Project/Activity including Schedule No.</td><td>6(a) Building and Construction projects</td></tr><tr><td>6. Name of Project</td><td>Construction of Proposed Expansion of Group Housing Project 'Shree Shalimar Mannat' at village Muhammadpur Nawabganj, Barabanki, U.P.</td></tr><tr><td>7. Name of Company/Organization</td><td>M/S SHALIMAR CORP. LTD</td></tr><tr><td>8. Location of Project</td><td>UTTAR PRADESH</td></tr><tr><td>9. TOR Date</td><td>N/A</td></tr></tbody></table>	1. EC Identification No.	EC23B038UP169879	2. File No.	7547-7345	3. Project Type	Expansion	4. Category	B	5. Project/Activity including Schedule No.	6(a) Building and Construction projects	6. Name of Project	Construction of Proposed Expansion of Group Housing Project 'Shree Shalimar Mannat' at village Muhammadpur Nawabganj, Barabanki, U.P.	7. Name of Company/Organization	M/S SHALIMAR CORP. LTD	8. Location of Project	UTTAR PRADESH	9. TOR Date	N/A
1. EC Identification No.	EC23B038UP169879																		
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7. Name of Company/Organization	M/S SHALIMAR CORP. LTD																		
8. Location of Project	UTTAR PRADESH																		
9. TOR Date	N/A																		
	The project details along with terms and conditions are appended herewith from page no 2 onwards.																		
	<p style="text-align: right;">(e-signed) Ajay Kumar Sharma Member Secretary SEIAA - (UTTAR PRADESH)</p> <p>Date: 19/12/2023</p>																		
	<p><i>Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.</i></p> <p><i>This is a computer generated cover page.</i></p>																		



State Level Environment Impact Assessment Authority, Uttar Pradesh

Directorate of Environment, U.P.
Vineet Khand-1, Gomti Nagar, Lucknow- 226010
E-Mail: dseup@yaho.com, seiaup@yaho.com
Phone no- 0522-2300541

Reference- MoEFCC Proposal no- SIA/UP/INFRA2/414710/2023 & SEIAA, U.P. & File no-7547-7345

Sub: Environmental Clearance for Proposed Expansion of Group Housing Project "Shree Shalimar Mannat" at Khasra No.- 52, 53, 54 A, 54 B, 55, 59, 105, 110-119, 121, 123- 128, 131, 139-144, Village- Muhammadpur Nawabganj, Barabanki, U.P., M/s Shalimar Corp. Ltd.

Dear Sir,

This is with reference to your application / letter dated 14-11-2022, 24-11-2022, 17-01-2023, 23-01-2023, 03-07-2023, 30-10-2023 on above mentioned subject. The matter was considered by 806th SEAC in meeting held on 03-11-2023 and 782nd SEIAA meeting held on 11-12-2023.

A presentation was made by the project proponent along with their consultant M/s ENW DAS (India) Pvt. Ltd., Lucknow to SEAC on 03-11-2023.

Project Details Informed by the Project Proponent and their Consultant

The project proponent, through the documents and presentation gave following details about their project –

1. The environmental clearance is sought for Expansion of Group Housing Project "Shree Shalimar Mannat" at Khasra No.- 52, 53, 54 A, 54 B, 55, 59, 105, 110-119, 121, 123- 128, 131, 139-144, Village- Muhammadpur Nawabganj, Barabanki, U.P., M/s Shalimar Corp. Ltd.
2. The environmental clearance for the first proposal was issued by SEIAA, U.P. vide letter no. 51/Parya/SEAC /3663/2016, dated 12/12/2017 for the plot area 84,604 m² and built up area 1,04,526.72 m² respectively.
3. The environmental clearance for the expansion proposal was issued by SEIAA, U.P. vide letter no. 764/Parya/SEAC /5865-5724/2019, dated 09 February 2021 for the plot area 84,604 m² and built up area 1,57,012.87 m².
4. The Terms of Reference for the present proposal were issued by SEIAA, U.P. vide Letter No. 328/Parya/SEIAA/7345/2022, dated 13/01/2023. EIA report submitted by the project proponent on 17/01/2023.
5. Comparative details of existing and expansion proposal:

Particulars	As per EC issued vide letter no.764/Parya/SEAC /5865-5724/2019 DATED 09 February 2021	New Proposal
Total Plot area	84,604 m ²	84,604 m ²
Net Land area	74,945 m ²	74,945 m ²
Development Area for Group Housing (including school & LIG/EWS)	71,241 m ²	71,241 m ²
Land Area only for Group Housing (Phase-1)	48,702.96 m ²	48,702.96 m ²
Net Effective Land Area (Land Area for Group Housing) (Phase-1 & Extension)	64,775.86 m ²	64,775.86 m ²
Primary School	2000 m ²	2000 m ²
Land for LIG/EWS	4,465.14 m ²	4,465.14 m ²

Commercial Development	3,704 m ²	3,704 m ²
Green Area required	9716.37 m ²	9716.37 m ²
Green Area achieved	9897.26 m ²	9921.69 m ²
Ground Coverage Permissible	21,951.44 m ²	21,951.44 m ²
Ground Coverage Proposed	15,621.39 m ²	15,743.82 m ²
Open Area	49,154.47 m ²	49,032.04 m ²
Area Under Roads & other services	39,257.21 m ²	39,110.35 m ²
Stilt Area	14,654.00 m ²	15,743.82 m ²
Basement Area	22,257.62 m ²	28,471.83 m ²
Maximum Building Height	32.85 m	32.85 m
Total Nos. of Block/ Towers	41	41
Units	1200 (2BHK&3BHK) (S+10)	1200 (2BHK+study & 3BHK) (S+10)
Permissible FAR (2.5)	1,37,196 m ²	1,37,196 m ²
Total FAR Area	1,11,190.2 m ²	1,14,100.92 m ²
Total Non-FAR Area	36,911.62 m ²	44,215.65 m ²
Built-up Area	1,57,012.87 m ²	1,67,227.62 m ²
6. Land use details:		
Description	Present (Sq. m)	
Ground Coverage	15,743.82	
Green Area	9,921.69	
Paved Area	39,110.35	
Total	64,775.86	
7. Salient features of the expansion project:		
Trees Required	Required {1 Tree/ 80 m ² of Open Area}: 614 Trees Proposed: 620 Trees (Plantation has already been started after issuance of EC and is being done continuously.)	
Parking facilities	Required : 1320 ECS Provided: 1331 ECS + 298 parking space for two wheelers in EWS	
Power requirement & source	Power requirement: 3700KW Source: From UPPCL	
Power backup (DG Sets)	Operation Phase: 3 x 500 KVA	
Water requirement & source	Fresh water: 492 KLD (Ground water) Reuse of treated effluent from STP - 246 KLD Total water requirement: 738 KLD	
Sewage Treatment & Disposal	Amount of waste water: 594 KLD Capacity of STP : 800 KLD Technology : Phytotrid	
Total solid waste generated	Total Municipal waste generated: 3871 kg/day Total E-waste generated: 3.2 kg/day Horticulture waste: 37 kg/day STP Sludge: 23 kg/ day	
Estimated population to step in	Residents: 7200 (Including EWS) Visitors: 720 Staff: 400 (Including Commercial) School Student :200 & Staff :50	
Project Cost	150 Cr	
Rain water harvesting pits	05 nos.	
8. Water & waste water details:		
Fresh Water for domestic uses	492 KLD	

Flushing	169 KLD
Horticulture / Landscape	77 KLD
Total Water Requirement	738 KLD
Source of water - Ground water	
Waste water - 594KLD	
STP Capacity - 800 KLD	
STP Technology- Phytotrid	
9. Landscape plan:	
Landscape area	9897.26 sqm. (15%)
Required trees (1 tree/ 80 m2 of Open area)	614Trees
Open area-	
Proposed:	620 Trees (Plantation has already been started after issuance of EC and is being done continuously.)

10. The project proposal falls under category-8(b) of EIA Notification, 2006 (as amended).

Based on the recommendations of the State Level Expert Appraisal Committee Meeting (SEAC) held on 03-11-2023 the State Level Environment Impact Assessment Authority (SEIAA) in its Meeting held 11-12-2023 discussed the matter and recommended grant of environmental clearance on the proposal as above alongwith standard environmental clearance conditions prescribed by MoEF&CC, Govt and following additional conditions:

Additional Conditions:

1. The project proponent shall submit within the next 3 months the details of solar power plant and solar electrification details within the project.
2. The project proponent shall ensure to plant broad leaf trees and their maintenance. The CPCB guidelines in this regard shall be followed.
3. The project proponent shall submit within the next 3 months the details on quantification of year wise CER activities along with cost and other details. CER activities must not be less 2% of the project cost. The CER activities should be related to mitigation of Environmental Pollution and awareness for the same like water harvesting pits and carbon sequestration parks / designed ecosystems. At least one school in the vicinity of project area should be provided with rooftop solar plant, toilets in public place or in school of nearby villages and if there is a girl's school then girls toilet properly equipped with overhead water tank should be constructed.
4. The project proponent shall submit within the next 3 months the details of estimated construction waste generated during the construction period and its management plan.
5. The project proponent shall submit within the next 3 months the details of segregation plan of MSW.
6. The project proponent shall ensure that waste water is properly treated in STP and maximum amount should be reused for gardening flushing system and washing etc. For reuse of water for irrigation sprinkler and drip irrigation system shall be installed and maintained for proper function. Part of the treated sewage, if discharged to sewer line, shall meet the prescribed standards for the discharge.
7. Under any circumstances untreated sewage shall not be discharged to municipal sewer line.
8. The project proponent will ensure that proper dust control arrangements are made during construction and proper display board is installed at the site to inform the public the steps taken to control air pollution as per air act 1981 (as amended) and the Construction and Demolition Waste Management Rules, CAQM guidelines.
9. A certificate from Forest Department shall be obtained that no forest land is involved and if forest land is involved the project proponent shall obtain forest clearance and permission of Central and State Government as per the provisions of Van Sanrakshan eram Samvardhan Adhiniyam, 2023 and submit before the start of work.

10. If the proposed project is situated in notified area of ground water extraction, where creation of new wells for ground water extraction is not allowed, requirement of fresh water shall be met from alternate water sources other than ground water or legally valid source and permission from the competent authority shall be obtained to use it.
11. Provision for charging of electric vehicles as per the guidelines of GoI / GoUP should be submitted within the next 3 months.
12. PP should display EC granted to them on their website. 6-monthly compliance report should be displayed on their website and to be given every six month to residents / occupants of the building.
13. EC is granted with the condition that EC is valid only for the building plan which has been submitted by PP for seeking EC. In case approved building plan is different from the one submitted for seeking EC then this EC will stand null and void.
14. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
15. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
16. In compliance to Hon'ble Supreme Court order dated 13/01/2020 in IA no. 158128/2019 and 158129/2019 in Writ petition no. 13029/1985 (MC Mehta Vs. GoI and others) anti-smog guns shall be installed to reduce dust during excavation.
17. The project proponent will ensure that there is no mismatch/deviation between the project proposal submitted to SEIAA for environmental clearance and maps/drawings were approved by concerned development authority. In case of any mismatch/deviation, amended environmental clearance will be obtained by project proponent. In case of failure, the granted environmental clearance shall automatically deem to be cancelled.
18. The proponent should provide electric vehicle charging facility as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
19. The project proponent should develop green belt in the housing scheme as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms. The project proponent will prepare working plan of plantation/green belt development showing type of plant species and their spacing in consultation with subject expert/ forest department and submit to the forest department and concerned regulatory authority and ensure their survival and sustainability.
20. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
21. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
22. The project proponent will ensure full exploitation of potential of rain water harvesting for storage and recharging and also treated wastewater in order to reduce the withdrawal of fresh water and accordingly use the three sources of water supply namely stored rain water, treated wastewater and the fresh water. The project proponent shall also provide a flow measuring device along with flow integrator for monitoring the various sources of water supply namely fresh water, treated waste water and stored harvested rain water. The project proponent will submit revised water mass balance in the light of above to the directorate of Environment and the concerned regulatory authorities.
23. The project proponent will ensure the quality of construction water as per standards and specifications of relevant codes in order to prevent possible corrosion in concrete, reinforcements and other structural components in order to avoid adverse social and environmental impacts.
24. The project proponent will ensure exploitation of maximum possible potential of solar energy generation in the proposed project area and prefer to use it instead of conventional electricity in order to reduce the Green House Gas Emission causing climate change.
25. The project proponent will make necessary arrangement to get Structural auditing conducted by an expert institution once in 5 years during life span of the building to ensure safe life of the residents and prevent environmental and social hazards.

Standard Environmental Clearance Conditions prescribed by MoEF&CC:

1. Statutory compliance:
 1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
 2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning 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 concerned State Pollution Control Board/ Committee.
 6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
 7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
 8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
 9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
 10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
2. Air quality monitoring and preservation:
 1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
 2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
 3. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
 4. 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.
 5. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
 6. Wet jet shall be provided for grinding and stone cutting.
 7. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
 8. 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.
 9. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.

10. 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. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.
3. Water quality monitoring and preservation:
 1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-wales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
 2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
 3. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
 4. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
 5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
 6. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
 7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
 8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
 9. 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.
 10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
 11. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
 12. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
 13. All recharge should be limited to shallow aquifer.
 14. No ground water shall be used during construction phase of the project.
 15. Any ground water dewatering should be properly managed and shall conform to the a approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
 16. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed in to municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problem from STP.
21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
4. Noise monitoring and prevention:
 1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
 2. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
 3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
5. Energy Conservation measures:
 1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
 2. Outdoor and common area lighting shall be LED.
 3. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
 4. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
 5. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
 6. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
6. Waste Management :
 1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

2. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
 3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
 4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
 5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
 6. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
 7. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
 8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
 9. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
 10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
7. Green Cover:
1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
 2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
 3. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
 4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
- B. Transport:
1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
 2. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
9. Human health issues :
 1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
 2. For indoor air quality the ventilation provisions as per National Building Code of India.
 3. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
 4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
 5. Occupational health surveillance of the workers shall be done on a regular basis.
 6. A First Aid Room shall be provided in the project both during construction and operations of the project.
10. Corporate Environment Responsibility:
 1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
 2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
 3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
 4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
11. Miscellaneous:
 1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF/CC/SEIAA website where it is displayed.
 2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
9. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
10. 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.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
13. 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.
14. 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.
15. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Concealing factual data and information or submission of false/fabricated data and failure to comply with any of the conditions stipulated in the Prior Environmental Clearance attract action under the provision of Environmental (Protection) Act, 1986.

This Environmental Clearance is subject to ownership of the site by the project proponents in confirmation with approved Master Plan for Barabanki. In case of violation, it would not be effective and would automatically be stand cancelled.

The project proponent has to ensure that the proposed site is not a part of any no-development zone as required/prescribed/identified under law. In case of the violation this permission shall automatically deemed to be cancelled. Also, in the event of any dispute on ownership or land use of the proposed site, this Clearance shall automatically deemed to be cancelled.

Further project proponent has to submit the regular 6 monthly compliance report regarding general & specific conditions as specified in the E.C. letter and comply the provision of EIA notification 2006 (as Amended).

These stipulations would be enforced among others under the provisions of 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 EIA Notification, 2006 including the amendments and rules made thereafter.

Copy, through email, for information and necessary action to –

1. Additional Chief Secretary, Department of Environment, Forest and Climate Change, Government of Uttar Pradesh, Lucknow (email – psforest2015@gmail.com)
2. Joint Secretary, Ministry of Environment, Forest and Climate Change, Government of India, 3rd Floor, Prithvi-Block, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003 (email – sudheer.ch@gov.in)
3. Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow – 226020 (email – roc2.lko-mef@nic.in)
4. District Magistrate, Barabanki
5. Member Secretary, Uttar Pradesh Pollution Control Board, TC-12V, Paryavaran Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow-226010 (email – ms@uppcb.com)
6. Copy to Web Master for uploading on PARIVESH Portal.
7. Copy for Guard File.

(Ajay Kumar Sharma)
Member Secretary, SEIAA



Signature Not Verified

Digitally signed by: Ajay Kumar Sharma
Designation: Member Secretary
Date and Time: 12/12/2023 7:24:27 PM

Annexure-5

Solar Plant





Shere's Shalimar Mannat – 15 KVA Solar Plant Installed on Tower-E Rooftop

Annexure-6

Structure stability Certificate



भारतीय
प्रौद्योगिकी
संस्थान

IIT

INDIAN
INSTITUTE OF
TECHNOLOGY
BANARASI HINDU UNIVERSITY

Prof. K. K. Pathak, FIE

Email: kkpathak.civ@iitbhu.ac.in

Department of Civil Engineering

Ref: IIT(BHU)/CE/KrKP/23-24/Shalimar/Mannat/02

Date: 20/04/2024

To,
M/s Shalimar Corp Ltd,
11th Floor, Titanium, Shalimar Corporate Park,
Vibhuti Khand, Gomti Nagar, Lucknow

Subject : Vetting of Structure Design and Drawings of Existing Block K and L of Group Housing "Shere's Shalimar Mannat at Khasra No.52, 53, 54A, 54B, 55, 59, 105, 110-119, 121, 123-128, 131 & 139-144, Village Mohammadpur Chauki, Tehsil Nawabganj, District Barabanki, U.P. by M/s Shalimar Corp Ltd.

Dear Sir,

In response to your letter number Mannat/IIT/2024/76, dated 27.03.2024 vetting of Structure Design and Drawings of Existing Block K and L of Group Housing "Shere's Shalimar Mannat at Khasra No.52, 53, 54A, 54B, 55, 59, 105, 110-119, 121, 123-128, 131 & 139-144, Village Mohammadpur Chauki, Tehsil Nawabganj, District Barabanki, U.P. by M/s Shalimar Corp Ltd has been carried out as per following area details.

Block No.	No of Floors	F.A.R. (Sqm.)	Sub Structure Area (Basement) - A	Super Structure Area - B	Total (A+B) in Sqm.
Block - K & L	B + Stilt + 10	30,119	9,882	33,553	43,440

The design and drawing of these building towers are found to comply with the relevant IS code norms of IS:45-2000, IS:800-2007, IS:875 (Part 3)-2015, IS:13920-2016 etc. and found to be satisfactory. The vetted drawing are being sent to you for future necessary action at your end.

With Thanks and Regards


(Prof. K.K.Pathak)

Prof. K. K. PATHAK
Department of Civil Engineering
Indian Institute of Technology
Banarasi Hindu University
Lucknow-221005



इंस्टीट्यूट ऑफ इंजीनियरिंग एण्ड टेक्नोलॉजी
INSTITUTE OF ENGINEERING AND TECHNOLOGY

सीतापुर रोड, लखनऊ - 226 021 (उ.प्र.) भारत
Sitapur Road, Lucknow- 226 021 (U.P.) India

Phone : +91 94150 99074 / Email : drkhan1961@gmail.com

IET/CE/MZK-C&T/2023-5799

Dated: 04-11-2023

To,
M/s Shalimar Corp Ltd,
11th Floor, Shalimar Corporate Park
Vidhata Khand, Gauri Nagar, Lucknow - 226 010.

Ref. Your letter No. Manma/IET/2023-64 dated 01.11.2023.

Dear Sir,

This has reference to your above letter whereby consultancy for Vetting of structural design for submission for construction of 2B+G+23+Service floor i.e. total of 27 storey Group Housing at Khata No. 52, 53, 54A, 54B, 55, 59, 105, 110, 118, 121, 123-128, 131, 139-144, Shalimar Manma (Block M & N Village, Mohanwaspur Chowk), District Buxar by Shalimar Corp Ltd. for which drawings were presented. The submission drawings are checked and same being vetting subject to following:

1. A total of Twenty Three (23) drawings for construction of above referred building are presented for vetting. There are two Towers each in M & N Tower Block. B+S=10 Storey i.e. total of 32 stores.
2. The structural design has been carried out by M/s TPC Technical Projects Consultant Pvt. Ltd. NOIDA.
3. As per Soil Test report presented along with drawings, value of 15.08 T/m^2 is recommended below NGL has been adopted in the foundation design.
4. The design loads have been adopted in accordance to relevant part I, II, III and V of IS:875. Hence satisfactory.
5. The site is falling under Seismic Zone-III, for which seismic factor 0.16 is adopted in the design, hence satisfactory.
6. The sectional details of space dimensions are assumed to be as per architectural requirements and client needs and as such are considered in the structural design.
7. Design has been carried out as per provisions of IS:456-2000, IS:13920-2016 and IS:1893-2016, hence satisfactory.
8. For Columns the concrete grade as per details mentioned under schedule has been adopted while Concrete grade of M30 is adopted for all other structural members. Hence satisfactory.
9. It is advised to use design concrete mix to determine ingredients of grades of concrete to be used as mentioned above and get the material test report of all the constructional material prior to their use.
10. Before casting of each structural member, verification to effect of proper laying and placing of reinforcement must be verified/confirmed by the competent authority and kept as record.
11. All essential and necessary clearances from appropriate authorities must be obtained before construction.
12. All requisite NOCs including Pre-construction NOC from U.P. Fire Services should be obtained before starting construction.
13. The submission drawings are being vetted as per design data in accordance to IS code, any deviation, variation, amendment, shift from IS code provisions during actual construction, knowingly or unknowingly shall render this vetting report redundant and non-responsive on our part. However, if any amendment/variation/ deviation, etc. is needed, the same shall be brought to notice of Structural designer so that appropriate suggestions could be made based on revised design.

With above comments, suggestion and recommendations for amendments design is found Safe and as such vetted.

Enclosure : Twenty Three (23) Nos. Drawings as mentioned above.

(Prof. M. Z. Khan)
Professor & Principal Investigator,
Civil Engg. Department



DEPARTMENT OF CIVIL ENGINEERING
INSTITUTE OF ENGINEERING & TECHNOLOGY
An Autonomous Constituent Institute of Dr. APJ Abdul Kalam Technical University, Uttar Pradesh
SITAPUR ROAD, LUCKNOW (U.P.), INDIA PIN-226021
Phone: +91 522 2361692 Fax: +91 522 2361631

Ref.: IET/CE/NBS/SPS/2016-202

Dated: 07.09.2016

To,

Shalimar Corp Limited,
11th Floor, Shalimar Titanium,
Shalimar Corporate Park,
Vibhuti Khand, Gomti Nagar,
Lucknow-226010

Subject: Vetting of structural drawings of Group Housing Project of Shalimar Mannat Khasra No. 52 to 55, 59, 105, 110 to 119, 121, 123 to 128, 131, 139 to 144 vill- Mohammadpur Chouki Barabanki.

Dear Sir,

Kindly refer your letter no. Nil dated 31-08-2016 on the consultancy of subject cited above. In this context, it is to inform you that the submitted structural drawings of Group Housing Project of Shalimar Mannat Khasra No. 52 to 55, 59, 105, 110 to 119, 121, 123 to 128, 131, 139 to 144 vill- Mohammadpur Chouki Barabanki have been checked in accordance to IS codes. Structural drawings are herewith enclosed for further necessary action at your end.

Thanking you,

(Dr. S. P. Shukla)
Professor

Yours Sincerely

(Dr. N. B. Singh)
Professor

Annexure-7

Fire NOC

8/5/2020

FIRE SERVICE / UTTAR PRADESH

प्रारूप-छ (संलग्नक-6)

अग्नि सुरक्षा प्रमाणपत्र (पूर्णता (कम्प्लीशन) अनापत्ति प्रमाणपत्र)

गुआईडी संख्या: UPFS/2020/21015/BRB/BARABANKI/214/CFD

दिनांक: 30-07-2020

पतास्थित स्थल का नाम है श्री मैसर्स **SHERE SHALIMAR MANNAT** (प्रमाणपत्रधारक का नाम) प्लॉट 52, 53, 54A, 54B, 55, 59, 105, 110, 111, 112, 113 etc., VILLAGE MOHAMMADPUR CHAUKI, BARABANKI सड़कौल **NO. WABGANI** प्लॉट एरिया 74945.00 sq.m, कुल कवर्ड एरिया 36180.24 (चर्च मीटर), ब्लॉकों की संख्या - 4 विमान

ब्लॉक/शेयर	प्रत्येक ब्लॉक में तलों की संख्या	ब्लॉकमेंट की संख्या	ऊँचाई
A	7	1	22.26 मी.
B	7	1	22.76 मी.
C	7	1	22.76 मी.
D	9	1	29.10 मी.

हैं। भवन का अधिभोग यहाँ **SHERE SHALIMAR MANNAT** द्वारा किया जा रहा है। इनके द्वारा भवन में अग्नि नियंत्रण एवं अग्नि सुरक्षा व्यवस्थाएं, एनटीसीसी0 एवं लखनऊ अग्निशमन बलक ब्यूरो के आईएस0 के अनुसार भवन में स्थापित करवाई गयी व्यवस्थाओं का निरीक्षण अधिभोग अधिवक्ता द्वारा दिनांक 04-08-2020 को भवन स्वामी/भवन स्वामी के प्रतिनिधि श्री **ABDULLAH NASOOD** brijeshshalimar@gmail.com 9554960559 के साथ किया गया। भवन में अधिलक्षणित अग्नि सुरक्षा व्यवस्थाएं मानकों के अनुसार अधिलक्षणित करवाई गई। अतः प्रमाणित भवन को अग्नि सुरक्षा प्रमाणपत्र (प्रमाणित शेयर) जारी किया गया। एनटीसीसी0 की अधिभोग श्रेणी **Residential** के अन्तर्गत देखा गया 05-08-2020 से 04-08-2025 तक 5 वर्षों के लिए इस धर्मे के साथ निर्मित किया जा रहा है कि भवन में निवासानुसार स्थापित करनी अधिलक्षणित व्यवस्थाओं का अनुपालन करते हुए नियोजित बनाये रखा जायेगा। भवन में स्थापित की गयी अधिलक्षणित व्यवस्थाओं में कोई भी त्रुटि के कारण किसी भी भूतना के लिए मैसर्स **SHERE SHALIMAR MANNAT** अधिभोगी पूर्ण रूप से जिम्मेदार होगा/होंगे। निर्मित अग्नि सुरक्षा व्यवस्था का सर्वेक्षण कर निर्धारित मानक/मानकों के अनुरूप न जायगी जाने पर निर्गत अग्नि सुरक्षा प्रमाणपत्र रद्द हो जाएगा/होंगे। जिसके लिए मैसर्स **SHERE SHALIMAR MANNAT** अधिभोगी पूर्ण रूप से जिम्मेदार होगा/होंगे।

यह प्रमाणपत्र अग्नि सुरक्षा अधिनियम, 2001 के अन्तर्गत जारी किया गया है। इसके अन्तर्गत जारी होने पर निर्मित प्रमाणपत्र रद्द नहीं होता।

इजाजत (निर्मित अधिकारी)

(मुख्य अधिलक्षणित अधिकारी)



Digitally Signed By:
(RAJ PRAKASH RAI)

[891C00C09CA74659054512785626A9491668E95]

05-08-2020

निर्मित होने का दिनांक : 05-08-2020
स्थान : BARABANKI

प्रारूप-छ (संलग्नक-6)

अग्नि एवं जीवन सुरक्षा प्रमाण पत्र (Fire & Life Safety Certificate)

यूआईडी संख्या: UPFS/2019/14348/BRB/BARABANKI/147/CFO

दिनांक: 07-12-2019

प्रमाणित किया जाता है कि गैसले **SHALIMAR CORP LTD** (भवन/प्रतिष्ठान का नाम) प्लॉट **52, 53, 54, 55, 59, 105 ETC, VILL- MOHAMMADPUR CHAUKI, FAIZABAD ROAD, BARABANKI** तहसील - **NAWABGANJ** जिले में

प्लॉट/टावर	तलों की संख्या	बेसमेंट की संख्या	ऊँचाई
D	7	1	22.76 mt.
E	7	1	22.76 mt.
F	7	1	22.76 mt.
G	7	1	22.76 mt.
H	7	1	22.76 mt.

एक प्लॉट एरिया **74945.00 sq.mt** है। भवन का अधिभोग **SHALIMAR CORP LTD** (भवन स्वामी/ अधिभोगी अपना कम्पनई का नाम) द्वारा किया जा रहा है। इनके द्वारा भवन में अग्नि निवहन एवं अग्नि सुरक्षा व्यवस्थाएँ एनओसीओ एवं तात्काली भारतीय मानक ब्यूरो के आईएसओ के अनुसार भवन में स्थापित व्यवस्थाओं का अनुक्षण किया जा रहा है। जिसका निरीक्षण **मुख्य अधिषासन अधिकारी** द्वारा दिनांक **10-12-2019** को भवन स्वामी के प्रतिनिधि श्री **R. N. SHUKLA AND SHABBAZ SIDDIQUE** के साथ किया गया तथा भवन में अद्विष्टमित अग्नि एवं जीवन सुरक्षा व्यवस्थाओं को मानकों के अनुसार प्वासिफि में पाया गया। जस्त प्रकार भवन को अग्नि एवं जीवन सुरक्षा प्रमाण पत्र (Fire & Life Safety Certificate) (एनओसीओ की अधिभोग श्रेणी) **Residential** के अन्तर्गत चेष्टा तिथि **11-12-2019** से **09-12-2024** तक **5** वर्ष के लिये दस साल के साथ दिख जा रहा है कि भवन में सभी मानकों का अनुबलन किया जाएगा तथा भवन के इस प्रमाण पत्र का नवीनीकरण निर्धारित समयावधि के अन्तर्गत पुनः कराया जायेगा तथा नवीनीकरण से पूर्व भवन में स्थापित अतिरिक्त व्यवस्थाओं को क्रियशील रखने की जिम्मेवारी आपसी होगी।

"यह प्रमाण-पत्र आपके द्वारा प्रस्तुत अभिलेखों, सूचनाओं के आधार पर निर्गत किया जा रहा है। इनके असत्य पाए जाने पर निर्गत प्रमाण-पत्र मान्य नहीं होगा।"

निर्गत किये जाने का दिनांक **11-12-2019**

स्थान: **BARABANKI**

हस्ताक्षर-
निर्गमन अधिकारी-
(मुख्य अधिषासन अधिकारी)



Digitally Signed By
(**RAJ PRAKASH RAI**)
[7F51C08CB0CA74689E64052785626A9496866EFS]
11-12-2019

Annexure-8

CTE Certificate



UTTAR PRADESH POLLUTION CONTROL BOARD

Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

Validity Period :12/01/2024 To 11/01/2027

Ref No. -
197042/UPPCB/Lucknow(UPPCBRO/CTE/BARABANKI/2023

Dated:- 21/01/2024

To ,

Shri SHEO JANAM CHAUDHARI

M/s Shalimar Corp Limited Mannat

Khasra No. 52, 53, 54A, 54B, 55, 59, 105, 110-119, 121, 123-128, 131, 139-144 Village

Mohammadpur Chowki, Ayodhya Road, Barabanki, U.P.,BARABANKI,225003

BARABANKI

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Pollution) Act, 1981 as amended.

Please refer to your Application Form No.- 23605184 dated - 24/11/2023. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates :

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
Cement, Sand, Aggregate, Concrete	Metric Tonnes/Day	0

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
Shalimar Mannat (167227.62 Sqm. Builtup)	0

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
Cement, Sand, Aggregate, Concrete	Metric Tonnes/Day	0	0

2. Water Requirement (in KLD) and its Source :

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Ground Water (within premises)	Borewell	492.0

3. Quantity of effluent (In KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	492.0

4. Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use
Diesel	0	Diesel Generator

5. ☐ For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.
- ☐ For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.
2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 11/01/2027 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution) Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application, complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 may be initiated against the industry With out any prior information, in case of non compliance of above conditions.

Specific Conditions:

1. This Consent to Establish (CTE) is being granted to M/s Shalimar Corp Limited Mannat for expansion the project of Buildup area 1,04,526.72 sqm to 1,67,227.62 sqm at Khata no. 52, 53, 54A, 54B, 55, 59, 105, 110-119, 121, 123-128, 131, 139-144, Village Molamadpur Chowki, Ayodhya Road, Barabanki.
2. The Project Proponent shall ensure to provide the proper exhaust from roof level along with acoustic enclosures on DG as per prescribed standards.
3. The PP shall ensure to compliance of all conditions mentioned in the Environmental Clearance (EC) vide letter no. letter no. EC23B038UP169879 File no.- 7547-7345 dated 19.12.2023
4. The PP shall operate and maintained the STP of capacity 800 KLD (02 nos. 2X400 KLD) for treatment of domestic sewage and treated effluent shall be used for irrigation in green belt, cooling of DG sets of the premises as per the norms specified in Environment (Protection) Act, 1986.
5. The PTZ web cameras shall be installed on STP outlet. Online continuous monitoring system shall be installed for monitoring of treated water and provide the URL ID and password to the Board.
6. The PP shall ensure to establish Miyawaki forest, as per the GO no. 1011/81-7-2021-09(ri)/2016 dated 13.10.2021 of Deptt. of Environment, forest and Climate Change.
7. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board shall be complied with.
8. Project shall obtain CTO (Air and Water) from the Board, before operation of the project.
9. The PP shall obtain NOC from UP Ground Water Department for abstraction of ground water within 03 months and submit in the Board.
10. The dust emission from the construction sites shall be completely controlled and all precautions will be taken in that behalf.
11. All approach roads & in campus roads should be sprinkled with water to suppress the dust emission.
12. The PP shall ensure to install Organic Waste Converter for bio degradable waste in its premises before completion of project.
13. The project shall ensure to put tarpaulin scaffolding around the area of construction and the building for effective and efficient control of dust emission generated during construction of the project.
14. Storage of any construction material particularly sand shall not be done on any space outside the project area.
15. The project shall comply with the provisions of Construction and Demolition Waste Management Rules, 2016.
16. The construction material of any kind stored on site shall be fully covered in all respect so that it does not disperse in the air in any form. The dust emission from the construction sites shall be completely controlled and all precautions will be taken in that behalf.
17. All the construction material & debris shall be carried in trucks or vehicles which are fully covered and protected so as to ensure that the construction debris or construction material does not get dispersed into the air or atmosphere in any form whatsoever.
18. The project shall ensure to provide the proper Wind breaking wall constructed around the construction site.
19. In case of installation of hotmix/ready mix plant, the prior permission shall be obtained from the Board.
20. Fixing of sprinklers and creation of green air barriers shall be done to control fugitive dust

emission and improve environment. Compulsory use of wet jet in grinding and stone cutting shall be practiced.

21. The project shall comply with the provisions of Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).

22. The Project proponent shall ensure to submit a bank guarantee of Rs. 5.0 lakhs in the board within 15 days issuance of this certificate for compliance of the above conditions no 1 to 21.

Please note that consent to Establish will be revoked, in case of, non compliance of any of the above mentioned conditions. Board reserves its right for amendment or cancellation of any of the conditions specified above. Industry is directed to submit its first compliance report regarding above mentioned specific and general conditions till 21/02/2024 in this office. Ensure to submit the regular compliance report otherwise this Consent to Establish will be revoked.

RAM
KARAN
Chief Environmental Officer,
Circle-5, UPPCB.

Digitally signed
by RAM KARAN
Date: 2024.01.21
18:05:46 +05'30'

Dated:- 21/01/2024

Copy To -

Regional Officer, UPPCB, Lucknow.

RAM
KARAN
Chief Environmental Officer,
Circle-5, UPPCB.

Digitally signed
by RAM KARAN
Date: 2024.01.21
18:06:06 +05'30'



मिशन LiFE - पर्यावरण के लिए जीवन शैली
(Lifestyle For Environment)
जनसहभागिता का सन्देश



- स्वच्छता – देशसेवा में अपने परिवेश की स्वच्छता हेतु अपना सक्रिय योगदान सुनिश्चित करें
- संकल्प लें - एकल उपयोग प्लास्टिक उत्पाद जैसे कप, तश्तरी, चम्मच, स्ट्रॉ, ईयरबड्स आदि का उपयोग न हो एवं पर्यावरण अनुकूल विकल्पों जैसे कागज/पत्तों से बने दोने या कटलरी को प्राथमिकता दी जाय |
- एकल उपयोग प्लास्टिक उत्पाद के प्रयोग को रोकने एवं प्लास्टिक बैग के बजाय कपड़े के थैले का उपयोग करने मात्र से 375 मिलियन टन ठोस (प्लास्टिक) कचरे का उत्सर्जन बचाया जा सकता है
- चक्रीय अर्थव्यवस्था (सर्कुलर इकोनॉमी) का समुचित कार्यान्वयन वर्ष 2030 तक लगभग 14 लाख करोड़ रुपये की अतिरिक्त बचत उत्पन्न कर सकता है | वेस्ट /अपशिष्ट फेकने के पूर्व सोचें, ये किसी का संसाधन तो नहीं ...?
- अनुपयोगी इलेक्ट्रिक / इलेक्ट्रॉनिक उत्पाद को कचरे में फेकने से रुकें | इसके उपयुक्त निस्तारण हेतु इसे प्राधिकृत ई – वेस्ट रीसाइकलर को दें | प्राधिकृत ई-रीसाइक्लिंग इकाई में अनुपयोगी इलेक्ट्रिक / इलेक्ट्रॉनिक उत्पाद को देने मात्र से 0.75 मिलियन टन तक ई-कचरे का पुनर्चक्रण किया जा सकता है एवं ई-कचरे के विषम पर्यावरणीय दुष्प्रभाव से बचा जा सकता है
- बाहर जाते समय - सोचें कि क्या आपको वास्तव में परिवहन की आवश्यकता है - वह भी क्या व्यक्तिगत रूप से ? छोटी दूरी के लिए पैदल चलना पसंद करें, अथवा सम्भव हो तो कार पूल के रूप में संसाधन को साझा करें अथवा सार्वजनिक परिवहन पर विचार करें
- घरेलू स्तर पर कम से कम ठोस अपशिष्ट का उत्सर्जन करें और इनका श्वाक्रीकरण करें
- उपयोगी शेष खाद्य सामग्री आपके स्वयं प्रयास अथवा निकटस्थ सक्रिय स्वयं सेवी संस्थाओं की सहायता से समाज के वंचित वर्ग तक पहुंचाई जा सकती है | वहीं अनुपयोगी भोजन /खाद्य सामग्री को कंपोस्ट (वर्मी कंपोस्ट) करने से 15 अरब टन भोजन को नष्ट होने से बचाया जा सकता है
- ध्यान रखें - उपयुक्त नल और शावर के उपयोग से पानी की खपत को 30 - 40% तक कम किया जा सकता है। एवं उपयोग में न होने पर नलों को बंद रखने मात्र से 9 ट्रिलियन लीटर पानी बचाया जा सकता है
- ट्रैफिक लाइट/रेलवे क्रॉसिंग पर कार/स्कूटर के इंजन बंद करने मात्र से 22.5 बिलियन kWh तक ऊर्जा की बचत हो सकती है
- परम्परागत बल्ब के स्थान पर CFL का उपयोग बिजली की खपत में प्रभावी कमी लाते हैं | उपयोग में न होने पर बिजली उपकरणों को बंद करें | स्टार रेटेड विद्युत उपकरणों के उपयोग को प्राथमिकता दें

हमारे द्वारा अपनी जीवन शैली की प्राथमिकताओं का उचित और पर्यावरण अनुकूल पुनर्निर्धारण समाज और पर्यावरण के प्रति हमारा दायित्व है |



विद्युत सुरक्षा निदेशालय

कार्यालय, उपनिदेशक, विद्युत सुरक्षा, उत्तर प्रदेश शासन
लखनऊ रोजन, लखनऊ

संख्या: 20/BNOC01018291 विद्युत/संचयन विभाग/एनओसी/निर्देशन, 2019-20

दिनांक: 30/09/2019

सेवाएं:

सर्दी Shalimar Market Township

Shalimar Market Township, Shalimar prop. Limited, Mahmoodpur Chawki, Saladabad

विषय :- विद्युतीय अधिशक्ति का निरीक्षण/परीक्षण।

प्राप्त :- आप का आवेदन पत्र संख्या VS1953170 दिनांक 29/09/2019

प्रिय महोदय,

व्यपक निम्नलिखित विद्युतीय अधिशक्ति का निरीक्षण/परीक्षण उपलब्धताओं द्वारा दिनांक 30/09/2019 को करते हैं। उनके विद्युतीय अधिशक्ति विद्युत सुरक्षा की दृष्टि से संतुष्ट हैं। निम्नलिखित अधिशक्ति (गैजेट रिपोर्ट 2 संख्या: एनओसी/एनओसी/एनओसी) दिनांक 2019 के सुसंगत दिनांकों पर पाए गए हैं। गैजेट रिपोर्ट निम्नलिखित में विषय की परिभाषा की गई है। इस कार्यवाही को अग्रसर करने के लिए पुनः निरीक्षण कराया जाये।

गैजेट	उत्पन्न	मार्क	संख्या	वोल्टेज	रिपोर्ट संख्या
1	Geset	Supernova	300 WVA	430 V	20/201901/953170-01

विद्युतीय लोड के अधिशक्ति का निरीक्षण 0-निर्देशन।

टिप्पणी :-

परीक्षा में गैजेट का मॉडल supernova है। गैजेट अल्ट्रावेर गैजेट Jerry somer है (संख्या-063001509672) मॉडल, संख्या: 20/BNOC01018291 विद्युत/संचयन विभाग/एनओसी/निर्देशन, 2019-20, दिनांक।

उपरोक्त कि यदि निम्नलिखित की सुझाव एवं आवश्यक कार्यवाही हेतु प्रेषित:-

अधिशक्ति अतिरिक्त, विद्युतपितरण खण्ड, चलावकी।

सहायक निदेशक, विद्युतसुरक्षा, 3000 शासन, लखनऊ जिला।

संयोजक निदेशक, विद्युतसुरक्षा, 3000 शासन, लखनऊ।



Shatrughna Singh
SHATRUGHNA SINGH
अतिरिक्त,
विद्युत सुरक्षा, 3000 शासन,
लखनऊ
महोदय,
Shatrughna Singh
SHATRUGHNA SINGH
अतिरिक्त,
विद्युत सुरक्षा, 3000 शासन,
लखनऊ

यह प्रमाण पत्र 3- वर्षों की अवधि के लिए मान्य है। सुझाव कार्यवाही हेतु http://edpplawmaha.org/For_NOC_Verification.aspx?Process=CH पर संचालित करें।

Note:- This NOC is valid upto 3 years only.

Annexure-10

Ambient air test report



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Website: www.sawenconsultancyservices.com E-mail: splplko@gmail.com,
E-mail: dr.rajesh_singh@yahoo.co.in, consultancy_sawens@yahoo.co.in, consultancy_sawens@gmail.com
ISO 9001 : 2008 OHSAS 18001:2007 Certified CIN No.: U24233UP2009PTC037307

TEST REPORT Ambient Air Quality Analysis

Sample Code: AQ-SPLPL-2400A
Sample Description: Ambient Air
Monitoring Location: 3m from Project Site
Date of Monitoring: 03.12.2024-04.12.2024
Date of Analysis: 04.12.2024-17.12.2024
Average Flow Rate of Manometer (m³/min): 1.1
Average Flow Rate of Rotameter (lpm): 0.5
Land Use at Location: Residential

Report No.: SPLPL/AQ/TR/2400A/24
Issue Date: 18.12.2024
Monitoring done by: Mr. Abhishek
Sampling Plan & Procedure: SPLPL-SOP-AQ-34
Sampling Time: 24 hrs.
Ambient Temperature (°C): 21
Weather Conditions: clear sky
Remarks (If any): none

Client's Name and Address: M/s Shallimar Mannat, Nawabganj, Barabanki, U.P.

S.NO.	PARAMETER TESTED	TEST PROTOCOL	UNIT	RESULT	NATIONAL AMBIENT AIR QUALITY STANDARDS (VIDE CPCB NOTIFICATION FOR G.S.R. 826 (E) DATED 16.11.2009)
1.	PM (10)	IS: 5182 Part 23	µg/m ³	97.7	100
2.	PM (2.5)	SOP-AAQ-21B	µg/m ³	42.4	60
3.	SO ₂	IS: 5182 Part II	µg/m ³	6.12	80
4.	NO _x	IS: 5182 Part VI	µg/m ³	24.8	80

End of Report

Note:

- ❖ This report relates to the tested sample only for various parameters, as observed at the time of sampling. It should not be reproduced wholly or in part without the prior written permission of the Laboratory.
- ❖ The test samples shall be destroyed after two weeks from the date of issue of test report, unless otherwise specified.
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Laboratories: Hall No. 2, 10 & 14, LDA Commercial Complex, Vibhav Khand, Gomti Nagar, Lucknow - 226 010 (U.P.)

Annexure-11

DG set emission test report



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E-mail: dr.rajesh_singh@yahoo.co.in, consultancy.sawens@gmail.com

ISO 9001: 2008 OHSAS 18001:2007 Certified

Report No.: SPL/PL/EEQ/TR/205A/24

Sample Code: EQ-SPLPL-205A

Sample Description: Stack Emission

Stack Attached To: DG Set-1, at K Block

Ambient Air Temperature (°C): 21°C

Monitoring Location: 4m from K Block

Date of Monitoring: 04.12.2024

Date of Analysis: 04.12.2024-17.12.2024

Stack Height (from GL): 4.8 meters

Distance of Platform (from GL): 4.6 meters

MOC of Stack: MS

Land Use at Location: Residential

Stack Temperature (°C): 67 °C

Stack Top: Circular

Issue Date: 18.12.2024

Sampling done by: Mr. Abhishek Verma

DG Set Capacity: 250 KVA

Type of Fuel: High Speed Diesel

Consumption of Fuel: 17 Ltrs/ Hr.

Sampling Plan & Procedure: SOP-SQ-20

Stack Diameter: 4.5 inch

Sampling Period: 31 min

Weather Conditions: Clear sky

Atmospheric Pressure: 740 mm of Mercury

Flue Gas Exit Velocity (m/sec): 8.43

Flue Gas Discharge (Nm³/hr.): 235.67

Flow Rate (lpm): 31.17

Total Volume of Air Sample (cum): 666.25

APCS (If any): Yes

Name & Address of Client: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

S.NO.	PARAMETER TESTED	TEST PROTOCOL	UNIT	VIDE CPCB NOTIFICATION FOR DG SETS GSR 771(E) dt 11.12.2013	RESULT AFTER CONVERSION TO CPCB STANDARD UNITS
1.	Particulate Matter (PM)	IS: 11255 (Part 1)- 1985; Reaff 2019	mg/N cu.m	≤0.2 g/ Kw-hr	0.06 g/ Kw-hr
2.	SO ₂	IS: 11255 (Part 2)- 1985; Reaff 2019	g/ cu.m	144.5 g/hr (0.5% by mass)	80.64 g/hr.
3.	NO _x	IS: 11255 (Part 7)- 2005; Reaff 2017	mg/N cu.m	≤4.0 g/ Kw-hr (NO _x + *HCl)	0.22 g/ Kw-hr
4.	CO	IS: 13270 :1992(Reaff 2009)	%	≤3.5 g/ Kw-hr	-
5.	CO ₂	IS: 13270 :1992(Reaff 2009)	%	-	-
6.	O ₂	IS: 13270 :1992(Reaff 2009)	%	-	-

End of Report

Note:

- ❖ This report relates to the tested sample only for various parameters, as observed at the time of sampling. It should not be reproduced wholly or in part without the prior written permission of the Laboratory.
- ❖ The test samples shall be destroyed after two weeks from the date of issue of test report, unless otherwise specified.
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Annexure-12

Ground water test



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Website: www.sawenconsultancy.com E-mail: spiplku@gmail.com

E-mail: dr.rajesh_singh@yahoo.co.in, dr.sawen@rediffmail.com, consultancy.sawen@gmail.com

ISO 9001 : 2008 OHSAS 18001:2007 Certified Issue Date: 10.12.2024 CIN No.: U24233UP2009PTC037307

Sample Location: Sarai Mithi

Sample collected on: 04.12.2024

Sample received on: 04.12.2024

Date of Test: 04.12.2024 - 17.12.2024

Source: Ground Water

Quantity: 2 liters

Sampling Done By: Mr. Dharendra

Sampling Procedure No.: SPLPL-SOP-18

Type of test carried: Physico-Chemical Test

Nature of Sample: Clear Water

Packing seal & signature: Received in Plastic Bottle

Condition of the sample: Clear Water

Client's Name and Address: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

S. No.	PARAMETER TESTED	UNITS	RESULT	Requirement [Acceptable Limit]	Permissible Limit in the Absence Alternate Source	TEST PROTOCOL
(IS 10500:2012) Second Revision						
01	Color, Max	Hazen units	<5.0	5	15	2120 B APHA 24 th Ed. 2023
02	pH Value	-	7.72	6.5-8.50	No Relaxation	4500 H-B APHA 24 th Ed. 2023
03	Electrical Conductivity	µs/cm	553.6	-	-	2510 B APHA 24 th Ed. 2023
04	Turbidity, Max	NTU	<0.2	1	5.0	2130 B APHA 24 th Ed. 2023
05	Total Dissolved Solids, Max	mg/l	220	500	2000	2540 D APHA 24 th Ed. 2023
06	Total Hardness (as CaCO ₃), Max	mg/l	150	200	600	2140 C APHA 24 th Ed. 2023
07	Calcium (as Ca), Max	mg/l	19.04	75	200	3500 B APHA 24 th Ed. 2023
08	Magnesium (as Mg), Max	mg/l	16.30	30	No Relaxation	3500 B APHA 24 th Ed. 2023
09	Total Alkalinity (as CaCO ₃), Max	mg/l	166	200	600	IS 3025 (Part 2) 1986
10	Chloride (as Cl), Max	mg/l	10.4	250	1000	4500 -C1 B APHA 24 th Ed. 2023
11	Sulphate (as SO ₄), Max	mg/l	70.03	200	400	4500 -SO ₄ -C F 24 th Ed. 2023
12	Nitrate (as NO ₃), Max	mg/l	8.7	45	No Relaxation	4500 -NO ₃ - D APHA 24 th Ed. 2023
13	Iron (as Fe), Max	mg/l	<0.1	1.0	No Relaxation	3500 Fe-B APHA 24 th Ed. 2023
14	Fluoride (as F), Max	mg/l	<0.1	1.0	1.5	4500 F APHA 24 th Ed. 2023
15	Copper (as Cu), Max	mg/l	<0.1	0.05	1.5	3500 Cu-B APHA 24 th Ed. 2023
16	Total Chromium (as Cr+6), Max	mg/l	<0.05	0.05	No Relaxation	3500 -Cr-B APHA 24 th Ed. 2023
17	Zinc (as Zn), Max	mg/l	0.20	5	15	3500 Zn-C APHA 24 th Ed. 2023
18	Manganese (as Mn), Max	mg/l	<0.1	0.1	0.3	3500 Mn APHA 24 th Ed. 2023
22	Total Phosphate (as PO ₄ -P)	mg/l	<0.01	-	-	4500 PD APHA 24 th Ed. 2023
26	Boron (as B), Max	mg/l	<1.0	0.5	1.0	IS 3025 (Part 57)
27	Ammonia (as total ammonia-N), Max	mg/l	<5.0	0.5	No Relaxation	IS 3025 (Part 34)
28	Cadmium (as Cd), Max	mg/l	<0.001	0.003	No Relaxation	3500 Cd APHA 24 th Ed. 2023

Notes:

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- Unused balance of samples shall be destroyed after one month from the date of issue of test report, unless otherwise specified.

Interpretation: The tested water sample does conform to IS: 10500-2012 Drinking Water Specification (Second Revision) and all amendments thereof, w.r.t. tested parameters.

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Website: www.sawenconsultancy.com E-mail: splpl.lko@gmail.com

E-mail: dr.rajesh_singh@yahoo.co.in, consultancy.sawens@gmail.com

ISO 9001 : 2008 OHSAS 18001:2007 Certified Issue Date: 10.12.2024

CIN No.: U24233UP2009PTC037307

Sample Location: Pump House-Project Site

Sample collected on: 04.12.2024

Sample received on: 04.12.2024

Date of Test: 04.12.2024-17.12.2024

Source: Ground Water

Quantity: 2 liters

Sampling Done By: Mr. Dharendra

Sampling Procedure No.: SPLPL-SOP-10

Type of test carried: Physico-Chemical Test

Nature of Sample: Clear Water

Packing seal & signature: Received in Plastic Bottle

Condition of the sample: Clear Water

Client's Name and Address: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

S. No.	PARAMETER TESTED	UNITS	RESULT	Requirement (Acceptable Limit)	Permissible Limit in the Absence Alternate Source	TEST PROTOCOL
				(IS 10500:2012) Second Revision		
01	Color, Max	Hazen units	<5.0	5	15	2120 B APHA' 24 th Ed. 2023
02	pH Value	-	7.51	6.5-8.50	No Relaxation	4500-H' B APHA' 24 th Ed. 2023
03	Electrical Conductivity	µs/cm	707.5			2510 B APHA' 24 th Ed. 2023
04	Turbidity, Max	NTU	<0.2	1	5.0	2130 B APHA' 24 th Ed. 2023
05	Total Dissolved Solids, Max	mg/l	367	500	2000	2540 D APHA' 24 th Ed. 2023
06	Total Hardness (as CaCO ₃), Max	mg/l	189	200	600	2340 C APHA' 24 th Ed. 2023
07	Calcium (as Ca), Max	mg/l	35.79	75	200	1500 B APHA' 24 th Ed. 2023
08	Magnesium (as Mg), Max	mg/l	24.05	30	No Relaxation	3500-B APHA' 24 th Ed. 2023
09	Total Alkalinity (as CaCO ₃), Max	mg/l	190	200	600	IS-3025(Part 23)1986
10	Chloride (as Cl ⁻), Max	mg/l	19.1	250	1000	4500 -Cl B APHA' 24 th Ed. 2023
11	Sulphate (as SO ₄ ⁻²), Max	mg/l	61.2	200	400	4500-SO ₄ -E 24 th Ed. 2023
12	Nitrate (as NO ₃ ⁻), Max	mg/l	9.92	45	No Relaxation	4500-NO ₃ -B APHA' 24 th Ed. 2023
13	Iron (as Fe), Max	mg/l	0.12	1.0	No Relaxation	3500 Fe-B APHA' 24 th Ed. 2023
14	Fluoride (as F ⁻), Max	mg/l	<0.1	1.0	1.5	4500-F APHA' 24 th Ed. 2023
15	Copper (as Cu), Max	mg/l	<0.1	0.05	1.5	3500-Cu B APHA' 24 th Ed. 2023
16	Total Chromium (as Cr+6), Max	mg/l	<0.05	0.05	No Relaxation	3500-Cr-B APHA' 24 th Ed. 2023
17	Zinc (as Zn), Max	mg/l	0.52	5	15	3500 Zn-C APHA' 24 th Ed. 2023
18	Manganese (as Mn), Max	mg/l	<0.1	0.1	0.3	3500 Mn APHA' 24 th Ed. 2023
22	Total Phosphate (as PO ₄ -P)	mg/l	<0.01	-	-	4500 PD APHA' 24 th Ed. 2023
26	Boron (as B), Max	mg/l	<1.0	0.5	1.0	IS 3025 (Part 57)
27	Ammonia (as total ammonia- N), Max	mg/l	<5.0	0.5	No Relaxation	IS 3025 (Part 34)
28	Cadmium (as Cd), Max	mg/l	<0.001	0.003	No Relaxation	3500-Cd- APHA' 24 th Ed. 2023

Notes:

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- Unused balance of samples shall be destroyed after one month from the date of issue of test report, unless otherwise specified.

Interpretation: The tested water sample does confirm to IS: 10500-2012 Drinking Water Specification (Second Revision) and all amendments thereof, w.r.t. tested parameters no.

For Sawen Projects & Laboratories Pvt. Ltd.

(Satyendra Singh)
Authorized Signatory

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Annexure-13

Surface water test report



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 E-mail: dr.rajesh_singh@yahoo.co.in, dr.rajesh_singh@yahoo.co.in, dr.rajesh_singh@yahoo.co.in
 ISO 9001 : 2008 OHSAS 18001:2007 Certified Issue Date: 18/12/2023
 CRI No.: UZAK23UP22APR11/01/001

Sample Location: Sharda Canal
 Sample collected on: 04.12.2024

Sample received on: 04.12.2024

Date of Test: 04.12.2024 17.12.2024

Source: Surface Water

Quantity: 2 liters

Client's Name & Address: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

Sampling Done By: Mr. Anshul
 Sampling Procedure No: SPL/PL/STW/18

Type of test carried: Physical Chemical Test

Nature of Sample: Clear water in plastic jar/can

Packing seal & signature: Jar/can with seal and sign

Sl.	PARAMETERS TESTED	TEST PROTOCOL	OBSERVED VALUE (mg/l)	Standard for Surface Water specified by CPCB, 1973 and the Bureau of Indian Standards, 1992 (B)
1.	Color (Hazen)	2120 B APHA' 24th Edition 2023	< 5	-
2.	pH Value	4500-H- B. APHA' 24th Edition 2023	7.31	6.5-8.5
3.	Electrical Conductivity, (µS/cm)	2510 B. APHA' 24th Edition 2023	656.8	-
4.	Turbidity, (N.T.U.)	2130 B APHA' 24th Edition 2023	64	-
5.	Total Dissolved Solids, (mg/l)	2540 C. APHA' 24th Edition 2023	382	500
6.	Total Hardness as CaCO ₃ , (mg/l)	2340 C. APHA' 24th Edition 2023	159	-
7.	Calcium as Ca, (mg/l)	3500 D. APHA' 24th Edition 2023	27.15	-
8.	Magnesium as Mg, (mg/l)	3500 B. APHA' 24th Edition 2023	10.99	-
9.	Alkalinity as CaCO ₃ , (mg/l)	2320B. APHA' 24th Edition 2023	101.3	-
10.	Chloride as Cl ⁻ , (mg/l)	4500 -Cl B. APHA' 24th Edition 2023	33.8	250
11.	Sulphate as SO ₄ ²⁻ , (mg/l)	4500 SO ₄ ²⁻ E. APHA' 24th Edition 2023	57.9	400
12.	Nitrate as NO ₃ ⁻ , (mg/l)	4500-NO ₃ ⁻ B. APHA' 24th Edition 2023	10.2	20
13.	Iron as Fe, (mg/l)	3500 Fe-B APHA' 24th Edition 2023	<0.1	0.3
14.	Fluoride as F ⁻ , (mg/l)	4500-F- APHA' 24th Edition 2023	0.13	1.5
15.	Bio-chemical Oxygen Demand, BOD, (mg/l)	153025(Part-44) 1993, (Reaff 2009)	1.1	2
16.	Chemical Oxygen Demand, COD, mg/l	5220 B APHA' 24th Edition 2023	18.7	-
17.	Total Suspended Solids (TSS), (mg/l)	2540 D APHA' 24th Edition 2023	32	-
18.	Oil & Grease (mg/l)	5520 B APHA' 24th Edition 2023	1.6	-
19.	Zinc (mg/l)	3500 Zn-C APHA' 24th Ed. 2023	0.24	-
20.	Copper (mg/l)	3500 Cu-B APHA' 24th Ed. 2023	<0.4	-

Note:
 • This report refers only to the job/ submitted for testing. It should not be reproduced except in full.
 • Unused balance of samples shall be destroyed after one month from the date of issue of test report, unless otherwise specified

Interpretation: The above tested sample does conform to Standard of surface water quality w.r.t above tested parameters

For Sawen Projects & Laboratories Pvt. Ltd.

(Satyendra Singh)
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Annexure-14

STP detail

Annexure-9

800 KLD SEWAGE TREATMENT PLANT AT MANNAT HOUSING COMPLEX FAIZABAD ROAD BARABANKI UP



SHERE's SHALIMAR MANNAT

A project by:

SHALIMAR CORP LIMITED

SHALIMAR TITANIUM

VIBHUTI KHAND GOMTI NAGAR

LUCKNOW -226010

UrbanPlan Consulting & Engg. Pvt. Ltd.
106, 107 Nikhat Plaza
Centre Point Complex, Samad Road
ALIGARH 202003, UP
Mobile 9897215999
Email: urbanplanspvtltd@gmail.com



STP Technical
Consent
CHECKED & VETTED BY


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20 Sept 2022



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List of Abbreviations

ABR	Anaerobic Baffled Reactor
BOD	Biochemical Oxygen Demand
CPHEEO	Central Public Health & Environmental Engg. Organization
COD	Chemical Oxygen Demand
CWs	Constructed Wetlands
FC	Fecal Coliform
GoUP	Government of Uttar Pradesh
HDPE	High-Density Polyethylene
HF-CW	Horizontal Flow Wetlands
KLD	Kilo Litres Per Day
KV	Kilo Volts
KW	Kilo-Watts
LPCD	Litres Per Capita per Day
MS	Mild Steel
MPN	Most Probable Number
O & M	Operation and Maintenance
RCC	Reinforced Cement Concrete
SPS	Sewage Pumping Station
STP	Sewerage Treatment Plant
TSS	Total Suspended Solids
TKN	Total Kjeldahl Nitrogen
TP	Total Phosphorus
VF-CW	Vertical Flow Wetlands

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1. About the Project

SHALIMAR MANNAT, a 33 acre township, located at Faizabad Road, Barabanki, having 720 Flats in Phase 1 in which 528 flats are 3 bhk & 192 flats are 2 bhk as well as in phase 2 having 160 flats are 2 bhk, 160 flats are 2.5bhk & 160 flats are 3bhk.



Artistic View



Actual View after Completion

Taking into consideration of company's fundamental ethics, compliance of regulatory norms, and more importantly, the need of today's growing environmental challenges, following are some of the measures that have been taken to address the environment and conservation of natural resources in their project on a sustainable approach basis. The foremost aspect of any housing project is to deal with efficiently the wastewater, its reuse after proper treatment, and rain water harvesting system.

2. Sewage Treatment Plant

2.1 Wastewater Flow

The capacity of the SEWAGE TREATMENT PLANT of the Mannat Housing Project has been evaluated based on the wastewater flow that shall be generated cumulatively from

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the flats. The details of the houses/families in different phases of the project are given in **Table 1**.

As per the standard norms and guidelines of the CPHEEO, the average water supply rate is taken as 130lpcd.

1 Flats (Phase – II)
480 2400 Persons
Total water supply rate per capita = 130 LPCD
Interception factor – 0. 75
Total KLD for Phase II:
Total Person x LPCD x Interception factor
 $2400 \times 130 \times 0. 75 = 234,000 \text{ ltrs}$
= 234 KLD

2 Flats
100 500 Persons
Total water supply rate per capita = 130 lpcd.
Interception factor – 0. 75
Total KLD for Phase II:
 $500 \times 130 \times 0. 75 = 48,750 \text{ ltrs}$
Total KLD = 48 KLD

FINAL STP CAPACITY
Phase I + Phase II + FWS/LIG
 $400 + 234 + 48 = 682 \text{ KLD}$
Safety factor = 800 KLD

The STP has been designed to cater population of 8000.

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2.2 Philosophy of the Technology Choice

The corner-stone of our philosophy towards the technology choice is its SUSTAINABILITY. We believe that any

developmental project should address the green concept and must be sustainable concerning its longevity, hassle-free operation & maintenance and make a more societal impact.

The domestic wastewater (sewage) within the Mannat housing complex from its different households shall flow into the underground sewerage network. It will collect and convey the entire sewage at one point/place where the facility for its treatment is provided. The underground sewerage network has been designed and laid in such a way that the pumping is minimally required.

The technology for sewage treatment plant at Mannat has been decided after careful considerations and due diligence. It is the state-of-the-art "**Wetlands**" technology that has been adopted for this STP. This concept of Wetlands Technology is eco-friendly, sustainable, and already proven in many countries, including India. The Wetlands Technology is highly-efficient, produces high effluent quality effluent, requires no energy and offers hassle-free operation and maintenance. It doesn't produce any kind of odor or vectors. Instead, it gives a very nice aesthetic view and landscape.

In India, AMU, NEERI, and other technical institutions have done remarkable achievements in this field. In one of the major R&D projects "**SWINGS**" under Indo-Euro Water Technology Programme (FP7 Framework) supported by the Government of India and European Commission, wherein UPPL was also involved as SME partners developed / employed Wetlands Technology for municipal wastewater treatment, reuse and recycle. This project has successfully demonstrated the modified concept of wetlands technology at AMU Aligarh.

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2.3 Design Approach

The design of the Sewage Treatment Plant at Mannat has been carried out while keeping the aim to fully use the treated water for gardening, toilet flushing, and horticulture. The landscape/ green area of the Mannat is approx 24 acres, which according to the estimate may consume 50-60% of the recycled water from the sewage treatment plant. About 20-30 % shall be used in group housing for the toilet flushing system. The remaining 10-20 %, shall be used in water bodies, cleaning of roads/pedestrians, automobile washing and other site related activities during the construction of the second phase.

2.4 Details of the STP

The flow rate and wastewater quality are the prime design considerations for any STP. Based on the similar townships completed by Shalimar Group and information gathered from various sources, **Table 2** gives the wastewater quality that has been used for the design purpose.

Table 2: Wastewater Flow and Characteristics for design purpose

Parameter	Value
Flow, KLD	800
BOD, mg/l	225
COD, mg/l	350
TSS, mg/l	400
Feecal Coliform, MPN/100ml	2.3×10^6

Treated Effluent:

BOD	< 10 mg/l
TSS	< 20 mg/l
Feecal Coliform	< 1000 MPN/100ml

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The treatment units at Mannat are:

1. Sump Cum Pump House
2. Inlet Chamber, Screens and Grit Chambers
3. UASB Reactors
4. Vertical Flow Constructed Wetlands
5. Horizontal Flow Constructed Wetlands
6. Chlorination Tank
7. Treated Effluent Sump Cum Pump House


The flow diagram of the STP at Mannat is given in Figure 1.

2.5 Process Flow Scheme

The wastewater from the flats shall be collected in the underground sewerage network and conveyed to the sump cum pump house from where it shall be lifted to the inlet chamber of the STP. Firstly, it will be screened (manually) for the removal of small objects, floatable items like wrappers, plastic, etc. After screening, the wastewater is allowed to enter into a grit chamber for the removal of inorganic solids, silt etc. After grit chamber, the wastewater shall enter into the UASB reactors under gravity. The wastewater shall be subjected to the settlement of the solids and degradation of the organic matter anaerobically.

The sludge produced in the reactor shall be withdrawn separately with the help of sludge valves from the bottom of the UASB reactors. There are 02 UASB reactors each to handle flow of 400 KLD. From UASB Reactors, the effluent shall enter into Vertical Flow Constructed Wetlands. The flow shall be uniformly distributed through

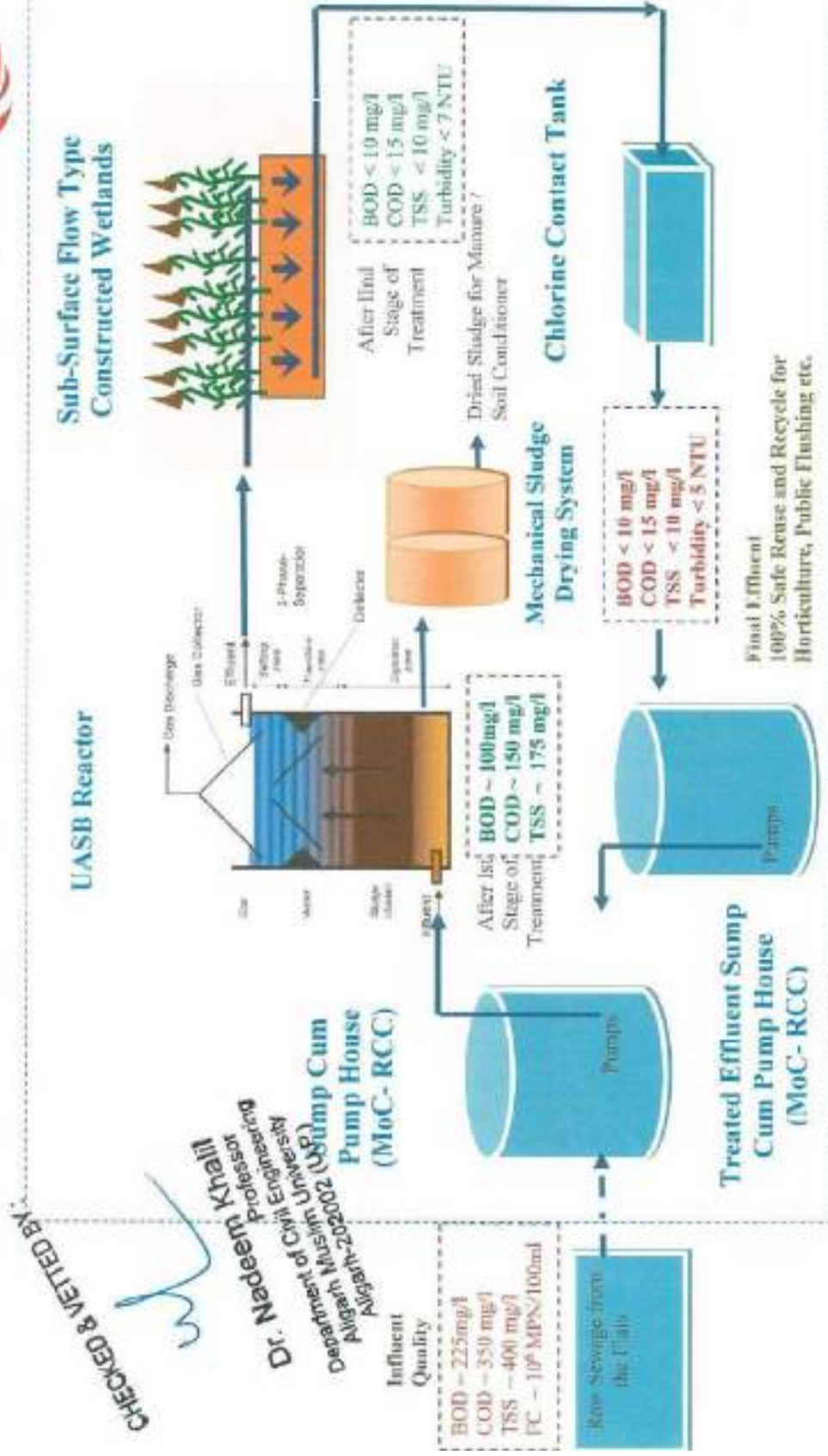
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Proposed Process Flow Scheme for the Sewage Treatment Plant at MANNAT Housing Project, Faizabad Road, Barabanki



out the top of the bed. The VF-CW is 1m deep tank that shall have filtering media and emergent vegetation to further treat the effluent. It works on the principle of natural process of treatment. After VF-CW, the effluent shall enter into horizontal flow Wetlands (HF-CW). The depth of the HF-CW is kept as 0.7m, filled with media and emergent plants (vegetation). The treated effluent after this step of the process shall be clean and crystal clear. However, it may require further treatment to kill the pathogens. For this reason, chlorine contact tank has been provided with 30 minutes contact time. After chlorination, the treated effluent shall be conveyed to the storage tank from where it shall be pumped for use within the Mannat area for gardening etc.

Conclusions:

The aforesaid STP at Mannat Housing Complex Barabanki is ready for commissioning now. It is expected that if the STP is properly maintained and operated as per its requirements, it may produce effluent quality that shall comply to the present discharge norms. The technology is self-sustainable, robust and very easy to operate.

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Pictures of the 800 KLD STP at Mannat



Inlet Chamber



UASB Reactors



Constructed Wetlands

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Annexure-15

Ambient noise test report



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ISO 9001 : 2008 OHSAS 18001:2007 Certified CIN No.: U24233UP2009PTC037307

TEST REPORT Noise Level Monitoring

Location Code: SPLPL/NQ-1467A

Monitoring of: Ambient Noise

Monitoring Location: As detailed in tabulated form

Duration of Monitoring: 03.12.2024-04.12.2024

Sampling Time: 24 hrs.

Monitoring Equipment:

(i) SPL-E-24

Report No.: SPLPL/NQ/ TR/1467A/24

Issue Date: 18.12.2024

Monitoring done by: Mr. Abhishek

Sampling Plan & Procedure: SOP-NQ-18

Environmental Conditions: Normal

Land Use at Location: Residential Area

Client's Name and Address: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

Stations	Location	Leq	
		Day dB(A)	Night dB(A)
SPLPL/NQ-1467A	2m from Ghalia Street	51.3	41.5

End of Report

Note:

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Indian Standards for Ambient Noise Levels*

Area Category Code	Limits in dB(A) Leq	
	Day time	Nighttime
Industrial Area	75	70
Commercial Area	65	50
Residential Area	55	45
Silence Zone	50	40

- *Ref.: Ministry of Environment & Forest (MOEF) Guidelines vide Environment (Protection) Act, 1986 third amendment rules dated 26/12/89 (Ref.6)
- Day time from (600 hrs to 2100 hrs, IST)
- Nighttime from (2100 hrs to 600 hrs IST)

Interpretation: The monitored noise levels were found to be under permissible standards for Residential land use.

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ISO 9001 : 2008 OHSAS 18001:2007 Certified CIN No.: U24233UP2009PTC03730

TEST REPORT Noise Level Monitoring

Location Code: SPLPL/NQ-1468A
Monitoring of: Ambient Noise
Monitoring Location: As detailed in tabulated form
Duration of Monitoring: 03.12.2024-04.12.2024
Sampling Time: 24 hrs
Monitoring Equipment:
(i) SPL-E-25

Report No.: SPLPL/NQ/ TR/1468A/24
Issue Date: 18.12.2024
Monitoring done by: Mr. Shueb
Sampling Plan & Procedure: SOP-NQ-18
Environmental Conditions: Normal
Land Use at Location: Residential Area

Client's Name and Address: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

Stations	Location	Leq	
		Day dB(A)	Night dB(A)
SPLPL/NQ-1468A	1m from Project Site	52.4	40.8

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Indian Standards for Ambient Noise Levels*

Area Category Code	Limits in dB(A) Leq	
	Day time	Nighttime
Industrial Area	75	70
Commercial Area	65	50
Residential Area	55	45
Silence Zone	50	40

- *Ref.: Ministry of Environment & Forest (MOEF) Guidelines vide Environment (Protection) Act, 1986 third amendment rules dated 26/12/89 (Ref.6)
- Day time from (600 hrs to 2100 hrs, IST)
- Nighttime from (2100 hrs to 600 hrs IST)

Interpretation: The monitored noise levels were found to be under permissible standards for Residential land use.

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Lucknow

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ISO 9001 : 2008 OHSAS 18001:2007 Certified CIN No.: U24233UP2009PTC037307

TEST REPORT Noise Level Monitoring

Location Code: SPLPL/NQ-1469A
Monitoring of: Ambient Noise
Monitoring Location: As detailed in tabulated form
Duration of Monitoring: 03.12.2024-04.12.2024
Sampling Time: 24 hrs.
Monitoring Equipment:
(1) SPL-E-46

Report No.: SPLPL/NQ/ TR/1469A/24
Issue Date: 18.12.2024
Monitoring done by: Mr. Dharendra
Sampling Plan & Procedure: SOP-NQ-18
Environmental Conditions: Normal
Land Use at Location: Residential Area

Client's Name and Address: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

Stations	Location	Leq	
		Day dB(A)	Night dB(A)
SPLPL/NQ-1469A	4m from Semra Street	51.8	43.9

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Indian Standards for Ambient Noise Levels*

Area Category Code	Limits in dB(A) Leq	
	Day time	Nighttime
Industrial Area	75	70
Commercial Area	65	50
Residential Area	55	45
Silence Zone	50	40

- *Ref.: Ministry of Environment & Forest (MOEF) Guidelines vide Environment (Protection) Act, 1986 third amendment rules dated 26/12/89 (Ref.6)
- Day time from (600 hrs to 2100 hrs, IST)
- Nighttime from (2100 hrs to 600 hrs IST)

Interpretation: The monitored noise levels were found to be under permissible standards for Residential land use.

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ISO 9001 : 2008 OHSAS 18001:2007 Certified CIN No.: U24233UP2009PTC037307

TEST REPORT Noise Level Monitoring

Location Code: SPLPL/NQ-1470A
Monitoring of: Ambient Noise
Monitoring Location: As detailed in tabulated form
Duration of Monitoring: 03.12.2024-04.12.2024
Sampling Time: 24 hrs.
Monitoring Equipment:
(i) SPL-E-56

Report No.: SPLPL/NQ/ TR/1470A/24
Issue Date: 18.12.2024
Monitoring done by: Mr. Lavkush
Sampling Plan & Procedure: SOP-NQ-18
Environmental Conditions: Normal
Land Use at Location: Residential Area

Client's Name and Address: M/s Shalimar Mannat, Nawabganj, Barabanki, U.P.

Stations	Location	Leq	
		Day dB(A)	Night dB(A)
SPLPL/NQ-1470	4m from Rendua Palhari	52.1	42.5

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Residential Area	55	45
Silence Zone	50	40

- *Ref.: Ministry of Environment & Forest (MOEF) Guidelines vide Environment (Protection) Act, 1986 third amendment rules dated 26/12/89 (Ref.6)
- Day time from (600 hrs to 2100 hrs, IST)
- Nighttime from (2100 hrs to 600 hrs IST)

Interpretation: The monitored noise levels were found to be under permissible standards for Residential land use.

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