

Millennia Infrastructure Private Limited.



Corporate Office

**Ecospace Business Park, Plot No. IIF/12, New Town, Rajarhat, North 24 Parganas, Kolkata - 700 156
Six Monthly Compliance Report of ECOSPACE Project for the period of APRIL 2020 TO SEPTEMBER 2020**



"Project Site "

ECOSPACE NEWTOWN, RAJARHAT, West Bengal

Millennia Infrastructure Private Limited.

Ref : AP/ECOSPACE -MIPL / EC / SEIA / Compliance /20-21

Date: 26.05.2020

To,

Secretary State Level Environmental Impact Assessment Authority, WB.

Department of Environment,

5th Floor, Pranisampad Bhawan, Block LB-II, Salt Lake, Sector III,

Bidhannagar, Kolkata – 700 106

Dear Sir,

Subject: Submission of six monthly compliance reports for the period of April 2020 to September 2020 for “ECOSPACE” at Premises No.- IIF/12 IT, New Town, Rajarhat, Kolkata -700156, West Bengal of M/S Millennia Infrastructure Private Limited.

We are pleased to submit the six monthly monitoring reports to you of our above mentioned project at Kolkata, West Bengal. The project is in operational phase. The Compliance report has been prepared against the conditioned mentioned in the Environmental clearance vide Ref No. EN/1895/T-II-1/008/2007 dt. 16/07/2009 and the Consent to Operate issued by West Bengal Pollution Control Board . The project has already accorded Consent to Operate from WBPCB after proper inspection of all condition mentioned in the Environmental Clearance and after satisfactory inspection Consent to operate has been issued. We are enclosing here with the compliance report for Operational phase April 2020 to Sept 2020 period.

This year due to Covid 19 pandemic, all IT offices are closed and this office complex is also closed for operation till August 2020 for the safety of the employees as per the decision conveyed by all organizations.

Considering the above stated status Environmental Monitoring was not conducted for the period of April 20 to June 20. Monitoring will be started from October 2020. Monitoring report for the period of October 20 to march 21 will be furnished along with next compliance report. We have furnished here with the compliance report based on the stipulation mentioned in the above-mentioned EC. The report is also available in the company website. <http://www.ambujaneotia.com>.

This is for your kind information and record in this regard.

Thanking you,

Yours faithfully,

For **Millennia Infrastructure Private Limited.**

Anindya Pal

Asst. General Manager – Compliance

Cc. In charge EMI Cell West Bengal Pollution Control Board, Paribesh Bhawan, 10 A, Block – LA, Sector III, Saltlake, Kolkata – 700 098



Six Monthly Compliance Report on Environmental Clearance

Purpose of the Report

This six-monthly report is being submitted as per the condition stipulated in the Environmental Clearance Notification.

The environmental assessment is being carried out to verify:

- That the project does not have any adverse environmental impacts in the project area and its surrounding
- Compliance with the conditions stipulated in the Environmental Clearance Letter.
- That the Project Management is implementing the environmental mitigation measures as suggested in the approved Form-1, Form-1A, Environmental Management Plan (EMP) and building plans.
- The project proponent is implementing the environmental safeguards in true spirit.
- The compliance report has been presented in this report for the phase of IT & ITES Complex comprising of 4 blocks (1 Blocks of G+6, G+7 and 2 Blocks of G+8 storied buildings) and Food Court .

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Project at a glance:
SALIENT FEATURES OF PROJECT

Project Name	ECOSPACE of M/S MILLENNIA INFRASTRUCTURE PRIVATE LTD
Project address	Premises No.- IIF/12 IT, New Town, Rajarhat, Kolkata -700156
EC No.	EN/1895/T-II-1/008/2007
Date of issuance	16/07/2009
Amended EC No	EN/779/T-II-1/008/2007 with respect to DG set capacity
Date of issuance	20/03/2013
Consent to Establish (NOC) No.	NO61797
Vide Memo No	790-2N-258/2006(E)
Date of issuance	10/12/2009
NOC Validity	31/08/2014
Amended NOC No.	NO61797 with respect to DG set capacity
Vide Memo No	223-2N-258/2006 (E)
Date of issuance	18/04/2013
Consent to Operate (CTO) No.	C0106393
Date of issuance	18.08.2017
CTO Validity	31.07.2022
Land area	10 acres (approx),40470 sqm
Built up area	112225.458 sqm
Ground coverage	15819.638 (36.61% of land area)
Building description	IT & ITES Complex comprising of 4 blocks(1 Blocks of G+6, G+7 and 2 Blocks of G+8 storied buildings) and Food Court.
Landscape Green Area	32.36 % of land area
Paved area	22.32% of land area
Semi soft area	5.32 % of land area
Total water requirement	708 KLD (Operation stage)
Fresh water requirement	During Dry Season -354 KLD (WBHIDCO supply), During Rainy Season -168 KLD (WBHIDCO supply),186 KLD Rain Water
Waste water generated	393 KLD (to be treated in STP, Design Capacity-410 KLD)
Waste water discharged	During Dry Season – Zero discharge, During Rainy Season -47 KLD (WBHIDCO sewer line after treatment in STP)
Waste water reused	During Dry Season -354 KLD (after treatment in STP), During Rainy Season -354 KLD (after treatment in STP)
Solid waste disposal	2.29 tonne per day
Backup power	3 nos. DG sets each 500 KVA, 2 nos. DG sets each 750 KVA, 6 nos. DG sets each 625 KVA & 2 nos. of DG sets 1010 KVA (as per amended NOC)
Status of construction	Project is in operational phase

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Operational Phase	
Water supply	
Conditions	Status of Implementation
i) Water requirement during operation phase shall be met from municipal supply. Ground water should not be abstracted without prior permission of the competent authority as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.	WBHIDCO fulfilling water requirement. HIDCO supply has already restored at the project.
ii) Use of water meter conforming to ISO standards should be installed at the inlet point of water uptake to monitor the daily water consumption. Use of water efficient devices / fixtures and appliances should be promoted. Installation of dual flushing system should be considered to conserve water.	ISO certified efficient water meter installed at inlet point water uptake for monitoring the daily water consumption. STP treated water has been used for dual flushing unit for water conservation.
iii) The proponent must practice rainwater harvesting on regular basis.	Stored rain water has been used for car washing ,gardening etc.
Sewage Treatment Plant	
i) As per the proposal submitted by the proponent wastewater shall be treated in STP. Treated wastewater shall be mostly reused and partly discharged to municipal sewer line during rainy season only. Discharge of treated sewage should conform to E(P) Rules. Sewage Treatment Plants should be monitored on a regular basis.	The total amount of waste water treated in STP. It is a zero discharge unit. Treated water will be reused for plantation and internal road cleaning. Sewage Treatment Plant's water has been monitored at the regular basis by NABLE accredited and WBPCB recognized laboratory as per E (P) Rules. Latest monitoring reports (Inlet-Outlet) attached here with.
ii) Reuse of treated wastewater should be carried out as proposed.	-
Emission from Diesel Generator Set	
i) Noise barriers will be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. Diesel generator sets should be provided with integral acoustic enclosure at the manufacturing stage itself as per CPCB norms.	3 nos. DG sets each 500 KVA, 2 nos. DG sets each 750 KVA, 6 nos. DG sets each 625 KVA & 2 nos. of DG sets 1010 KVA (as per amended NOC).
ii) The stack height and emissions from D.G. sets should conform to the norms of Central Pollution Control Board. The certification of space design for DG sets should be done by competent authority.	DG stack height has been constructed as per norms of Central Pollution Control Board. DG sets emission is confirming by the WBPCB recognized laboratory for air and noise emission standers.
Ensure Energy Efficiency	
i) Use of energy efficient construction materials to achieve the desired thermal comfort should be incorporated. The desired level of R and U factors must be achieved. U factor for the top roof should not exceed 0.4 Watt/sq.m/degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 should be strictly followed.	Energy efficient construction materials had been used to achieve the desired thermal comfort. The design has been developed considering energy efficiency factor as per National Building Code 2005.
ii) The lightning design and the heating, ventilation and air	The lightning design and the heating, ventilation and air conditioning systems are developed as per

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conditioning systems should conform to the recommendations of the Energy Conservation Building Code 2007 of the Bureau of Energy Efficiency, Gol.	electrical DBR
iii) Use of energy efficient electrical systems should be promoted. High efficiency lamps with electronic ballasts should be used.	Use of energy efficient lighting systems e.g. CFL and LED etc. has been used. Street lightings are fitted with HPSV lamps.
iv) Energy efficient Motors and properly rated Transformers should be installed. Manufacturer's certificate to this effect shall be obtained and kept on record. Backup power supply should be based on cleaner fuel.	Cleaner fuel has been used for DG sets for backup power supply. Use of cleaner fuel (HSD) to minimize the energy consumption and excessive fuel usages for control the environmental pollution.
v) The power cabling shall be adequately sized as to maintain the distribution losses not to exceed 1% of the total power usage. Record of transmission losses shall be maintained. The proponent shall install permanent electrical metering to record demand (kVA), energy (kWh) and total power factor.	The power cabling has been adequately sized as to maintain the distribution losses not to exceed 1% of the total power usage.
vi) The project proponent should resort to solar energy at least for street lighting and water heating.	The solar energy system has been developed with wind mill as hybrid central power system which is used to run the server and other common facility. Total capacity is 1.5 KW /h
vii) Energy audits should be conducted on a regular basis.	Energy audits has been conducted on a regular basis.
Transport Management	
i) Use of public mode of transportation should be promoted. Use of the least polluting type of transportation should be promoted. Adequate parking space should be provided as per norms.	As per traffic planning and management both internal and external traffic have an adequate place for ensure uninterrupted traffic movement in the project area during operation. Adequate open car parking space covered car parking space at the basement and ground floor available as per norms.
ii) Pathways should be covered or shadowed by tree canopy. Transport system should be such that traffic will be calm in neighborhoods. Traffic in residential areas should be restricted by regulation. Adequate vertical and horizontal clearances of overhead electric power and telecommunication lines should be provided.	Pathways is covered or shadowed by tree canopy. Open car parking facility has been provided on grass pavers block only to reduce the landscape and heat island effect.
Solid Waste Management	
i) The proponent should abide by the Municipal Solid Wastes (Management and Handling) Rules, 2000. The proponent must develop the Solid Waste Management and Disposal Scheme ensuring storage and segregation of biodegradable and non-biodegradable wastes. The solid waste is to be disposed of in consultation with WBHIDCO/ Notified Township Authority.	Solid Waste Management has been developed as per the Municipal Solid Wastes (Management and Handling) Rules, 2000. Solid Waste Management and Disposal Scheme has been developed ensuring the storage and segregation of biodegradable and non-biodegradable wastes. The solid waste has been disposed through WBHIDCO.
ii) The proponent should provide different colored bins for different categories of waste and ensure complete segregation of biodegradable and non-biodegradable wastes. The solid waste from different collection and storage bins should be finally collected at transfer stations. Further segregation will be done at transfer stations to collect recyclables such as plastic, polythene, glass,	Wastes are collected in separate bins dedicated for bio degradable, non-bio degradable and recyclable materials. The yard is constructed room having different chambers for dumping the different category of solid waste.

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metals, textiles, rubbers, leathers, paper etc. Separate compartments shall be provided for each type of recyclables.	
iii) The proponent should abide by the Hazardous Wastes (Management, Handling) Rules, 2003. Collection and storage of hazardous wastes during Preconstruction and Post-construction activity should be planned properly. The expected hazardous wastes should be disposed of separately as per the Hazardous Wastes (Management and Handling) Rules, 2003.	Hazardous waste is not generated in the premises of ECOSPACE.
iv) Spent oil from DG Sets should be stored in HDPE drums in isolated covered facility and disposed of as per the Hazardous Wastes (Management and Handling) Rules, 2003. Spent oil from DG Sets should be disposed of through registered recyclers only.	Spent oil of DG sets is being stored in HDPE drums in isolated cover facility. Quantity of generation very less and being generated only during service of DG. Spent oil are sold to authorized vendor
E-Waste Management	
i) Various types of electrical and electronic wastes generated in the building, which includes PC, Xerox machine components etc. should be collected separately for transportation to the authorized recyclers approved by the State / Central Pollution Control Boards. There should also be provision for storage of these wastes in the building before transportation. The E waste collected should be processed in authorized recycling unit.	Generated electrical and electronic wastes are being managed by Buy-back policy. Facility management of Millennia Infrastructure Private Limited manages it.
Others	
i) The implementation of Environmental Management Plan should be carried out, as proposed. Regular monitoring should be carried out during construction and operation phases.	Monitoring at site are done in regular intervals by a WBPCB recognized I and NABL accredited laboratory expect in the monsoon season.
ii) The project proponent should provide guidelines to the users to ensure conservation of energy and water. In-house environmental awareness campaigns should be carried out at regular intervals to ensure environmental protection.	A tenement guideline is being provided to each office owner. In this guideline usage of energy, facility of HAVC, fit-out regulation use of VOC restriction in paints, water conservation and description of plantation are clearly mentioned.
iii) Firefighting systems should be designed in compliance with the WBFS and NBC norms. Preventive measures should be adopted for Risk & Disaster Management as per the provisions of the National Building Code 2005.	The project has already accorded the fire clearance from West Bengal Fire Engineering Department. Required sprinkler system, hydrant, Co2 sensor, smoke alarm has been installed along with emergency escape route. Fire mock drill is being conducted by facility managements team in a regular interval.
iv) The proponent should implement Corporate Social Responsibility Plan with specific financial commitment for the proposed project.	The group has a separate Corporate Social Responsibility Department This department is responsible for implementing CSR programme at different area.
v) Environmental Management Information System shall be maintained properly.	Updated Environmental Management Information System is properly maintained.
General Conditions	

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Conditions	Status of Implementation
i) The environmental safeguards contained in the EMP report should be implemented in letter and spirit.	EMP is implemented as specified in the report.
ii) All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.	-----
iii) Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase.	Kerosene had been supplied to labourers during construction phase.
iv) All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.	Health checkup camp has been conducted by UGDL for construction workers. Necessary safety precaution is being taken during construction activity.
v) The project proponent should make financial provision in the total budget of the project for implementation of the suggested safeguard measures.	Financial budget attached to the report
vi) Six monthly monitoring reports should be submitted to the West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards and should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority.	Six monthly monitoring reports has been submitted to the West Bengal Pollution Control Board periodically. October 2018 to March 2019 periodic Six monthly monitoring report had been submitted with all necessary information to the West Bengal Pollution Control Board and forwarded to the State Level Environment Impact Assessment Authority.
vii) In case of any violation of the conditions laid down in this Environmental Clearance, Section 16 of The Environment (Protection) Act, 1986, will be applicable.	Not Applicable
viii) In case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.	No change has been occurred in nature of the the project. There is no deviation as sanctioned by HIDCO and the same submitted to the Department of Environment Govt. of West Bengal. DG capacity has been changed and accordingly new capacity has been incorporated in the EC and NOC.
ix) The Project Proponent should inform the public that the proposed project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at website of the SEIAA, West Bengal (http://enviswb.gov.in). This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.	MIPL already received Environmental clearance by the SEIAA, West Bengal. After receiving clearance MIPL published public notice at two local newspaper English and Bengali
x) All other statutory clearances such as the approvals for storage of diesel room Chief Controller of Explosives, Civil Aviation Department	The project have all statutory clearance like <ul style="list-style-type: none"> • Fire clearance from West Bengal Fire Engineering Department, Clearance from Civil Aviation

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<p>(if required) etc. shall be obtained by project proponents from the competent authorities.</p>	<p>Department.</p> <ul style="list-style-type: none"> • Clearance form BSNL
<p>xii) Provision for incorporation of appropriate conditions in the Sale Agreement / Deed, for ensuring sustained Operation and Maintenance (O&M) of the common facilities (STP, Rainwater harvesting system, Solid waste management system, Solar street lights etc.) even after transfer of ownership of the project, should be made in explicit and transparent manner.</p>	<p>The common facility like STP, Rainwater harvesting system, Solid waste management system, Solar street lights etc. are on operational condition and in under maintenance ensuring by Operation and Maintenance department, which is illustrate in the Sale Agreement.</p>
<p>xii) The project proponent should strictly abide by the conditions laid down in the Environmental Clearance for the proposed New Town Project at Rajarhat , Kolkata, accorded by the Department of Environment , Government of West Bengal to the Department of Housing , Government of West Bengal vide Memo No EN/1998/4W-8/99 dated 10th November, 1999 and Memo no EN/P/90/4W-8/99 (Pt.II) dated 30th January , 2003</p>	<p>MIPL fulfill all statutory compliance and maintain monthly basis which is illustrate in the NOC by West Bengal Pollution Control Board</p>
<p>xiii) The project proponent should also abide by the NOC conditions accorded by the West Bengal Pollution Control Board to the Department of Housing, Government of West Bengal for the proposed New Town Project at Rajarhat, Kolkata, vide Sl. No. 04462 Memo No. 1295-175/WPB-NOC/99-2000 dated 31st August, 1999 and Sl. No. NO10868 Memo No. 7041-175/wpb/NOC/99-2000 dated 9th June, 2004.</p>	<p>MIPL fulfill all statutory compliance and maintain monthly basis which is illustrate in the NOC by West Bengal Pollution Control Board.</p>
<p>xiv) Prior Consent-to-Establish (NOC) for the proposed project must be obtained from WBPCB by the proponent. All other statutory clearances should be obtained by project proponent from the competent authorities.</p>	<p>MIPL have all statutory clearance like Environmental clearance by the SEIAA, West Bengal, Fire clearance from West Bengal Fire Engineering Department, clearance from Civil Aviation Department, DOE approvals etc along with Consent-to-Establish (NOC) obtained from WBPCB.</p>

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WEST BENGAL POLLUTION CONTROL BOARD
'Paribesh Bhawan',
Bldg. No. - 10A, Block - LA, Sector-III,
Salt Lake City, Kolkata - 700 098

Consent Letter Number : CO106393
Memo Number : 13-sl CO-V/17/0100 Date : 18.08.17

Consent to Operate
under
Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to :

Millennia Infrastructure Pvt. Ltd.
(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Permit no. 115/12
Rajachhat
P.O. - Newtown, P.S. - Rajachhat, 24 Pgs (N), Pin 700156
(Detailed address of the manufacturing unit)

for a period from date of issue to 31/09/2022

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

For and on behalf of the State Board

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)
18/08/17
Environmental Engineer
West Bengal Pollution Control Board
Salt Lake Regional Office



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Construction Phase

Specific Conditions

Provision of drinking water, waste water disposal and solid waste management should be ensured for labour camps.

There was provision of drinking water available at labour camp during construction. Waste water disposal and solid waste management had been developed for labour camps during construction. The separate septic tank had been developed for workers. Drinking water quality has been tested periodically by NABL accredited laboratory as per IS 10500 code for the workers camp and also being carried over during Operational phase The Generated Solid wastes from labours disposed through WBHIDCO.

Water usage during construction should be optimized to avoid any wastage.

All labour and supervisors had a keen attention to avoid wastage of water.

Proper sanitation facilities should be provided for construction workers to ensure environmental sanitation. Sewage generated from the areas occupied by the construction labourers have to be directed into the existing sewage drain of the area. In case of non availability of the sewer system, an onsite treatment system has to be provided.

Proper sanitation facility had been provided. Separate septic tank had been provided at construction site. Solid wastes generated from labour camp were disposed through WBHIDCO Municipality. Presently there is no labor camp as the project has reached at the final stage of completion.

Health and safety of the workers should be ensured during construction. Personnel protective equipment like helmets, earmuffs, earplugs etc. should be provided to the workers .For vibration control damped tools must be used and the number of hours that a worker uses them must be limited.

Safety committee has been formed at site. Personnel protective equipment like helmets, earmuffs, earplugs etc has been used properly by workers during construction phase. Regular supervision for safety had been carried out. Medical checkup of labours are being conducted in regular intervals.

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Adequate erosion and sediment control measures to be adopted before ensuing construction activities.



Adequate erosion and sediment control measures during construction activities has been taken care off. Sedimentation pit are developed to control the runoff.

Disposal of muck including excavated material during construction phase should not create any adverse effects on the neighboring communities and disposed off taking the necessary precautions for general safety and health aspects.

The excavated material including muck has been properly handled and disposed off with necessary precautions for general safety and health aspects.

Diesel generator sets during construction phase should have acoustic enclosures and should conform to E(P) Rules prescribed for air and noise emission standards.



DIESEL GENERATOR SET WITH ACOUSTIC ENCLOSURES

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Diesel generator set with acoustic enclosures has been installed at construction site as per E (P) Rules along with construction power supply from NTESE. It has been monitored by NABL accredited and WBPCB recognized laboratory periodically.

Vehicles / equipment deployed during construction phase should be in good condition and should conform to applicable air and noise emission standards and should be operated only during nonpeak hours.

Condition of Vehicles and construction equipments are regularly checked. Pollution certificate of vehicle is being checked at the entry point of the project site.

Ambient noise levels should conform to residential standards both during day and night. Only limited necessary construction should be done during nighttime. Fortnightly monitoring of ambient air quality (SPM, SO₂ and NO_x) and equivalent noise levels should be ensured during construction phase.

Ambient air levels had been checked as per residential standards both during day and night by the NABL accredited and WBPCB recognized laboratory in regular intervals. This will enable to have a comparative analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. It has been maintained during operational phase also. Ambient air quality monitoring was conducted in respect of the following parameters:

- 1) Particulate Matter 2.5 (PM_{2.5})
- 2) Particulate Matter 10 (PM₁₀)
- 3) Sulphur Dioxide (SO₂)
- 4) Oxides of Nitrogen (NO_x)

The duration of sampling of PM_{2.5}, PM₁₀, SO₂ and NO_x was 24 hourly continuous sampling per day. The monitoring was conducted for one day at each location. This is to allow a comparison with the National Ambient Air Quality Standards. The air samples were analyzed as per standard methods specified by Central Pollution Control Board (CPCB) and IS: 5182. The techniques used for ambient air quality monitoring with in minimum detectable levels. Fine Particulate Sampler APM 550 instruments have been used for monitoring Particulate Matter 2.5 (PM_{2.5} i.e. <2.5 microns), and Respirable Dust Sampler APM 450 was used for sampling Respirable fraction (<10 microns), gaseous pollutants like SO₂, and NO_x.

The main objective of noise monitoring in the study area is to assess the present ambient noise levels in project site & project boundary due to various construction allied activities and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area.

Noise levels were measured using integrated sound level meter manufactured by Quest Technologies. The integrating sound level meter is an integrating/ logging type with Octaves filter attachment with frequency range of 31.5 to 16000 Hz. This instrument is capable of measuring the Sound Pressure Level (SPL), Leq and octave band frequency analysis. Noise level monitoring was carried out continuously for 24-hours with one hour interval starting at 0030 hrs to 0030 hrs next day. The noise levels were monitored on working days only. During each hour Leq were directly computed by the instrument based on the sound pressure levels. Lday (L_d), Lnight (L_n) and Ldn values were computed using corresponding hourly Leq. Monitoring was carried out at 'A' response and fast mode. Ambient air quality and noise levels monitoring reports of operational phase attached herewith.

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Construction spoils including bituminous material and other hazardous materials including oil from construction equipments must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water. If necessary, oil trap should be installed where there is deployment of heavy machineries.

Construction materials has been used with special care to avoid leaching oil from equipment to the ground water and the dumpsites for such material must be secured so that it has not leached into the ground water. Secondary containments has been provided to check the contamination.

Regular supervision of the above and other measures should be in place all through the construction phase so as to avoid disturbance to the surroundings.

Regular supervision had been done during construction phase.

Mechanism of piles: No driven piles shall be proposed for this project.

Bore piles had been done at the site during pilling stage of construction.

15m-screen and adequate sprinkler arrangement shall be provided. Care should be taken to keep all material storages adequately covered and contained so that they are not exposed to winds.



BUILDING HAD BEEN BARRICADED

The project has been barricaded during construction phase. The phase is now over. The construction phase is near about verge of completion. The adequate sprinkler arrangement had been implemented during construction phase. The storage materials had been covered properly to avoid to expose to wind for maintaining quality of materials.

Millennia Infrastructure Private Limited.**Loading and unloading operations should not be carried out in open areas.**

Loading and unloading operations has not carried out in open areas.

Use of Ready-Mix concrete is recommended for this project.

Ready mix concrete had been used in whole project. Construction phase of the project is over

Adequate measures to be adopted to avoid wastage of water for curing of concrete structures.

During Construction water has been reused where ever possible. Water used for cleaning is stored and reused at different purpose of construction.

Adequate mitigative measures should be adopted to control dust emissions, noise and vibrations from construction activities. Vehicles and construction machineries should be properly maintained. Vehicles should conform to Pollution under control (PUC) norms.

Adequate mitigative measures to control dust emissions, noise and vibrations from construction activities has been taken .Erosion and sediment control measures adopted and implemented at the time of construction of the project site. Vehicles and construction machineries has been with special taken care off.

Locally available materials with less transportation cost should be used preferably.

Local materials has been used for minimization transportation cost for the project site and side by side the automobile emission and depletion of natural resources.

Promotion of use of cleaner fuel and fuel quality improvement should be done. Excessive energy consumption and fuel usage should be avoided.

Use of cleaner fuel (HSD) to minimize the energy consumption and excessive fuel usages for control the environmental pollution.

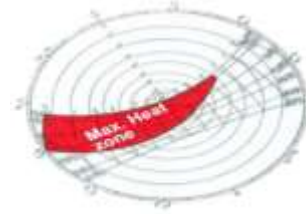
Accumulation / stagnation of water should be avoided to ensure vector control.

Special care has been observed. Spraying has been done weekly basis for pest control

Use of energy efficient construction materials should be ensured to achieve the desired thermal Comfort.

Energy efficient lighting system has been used during construction phase. An energy efficient construction material has been used for achieving the desired thermal comfort. The design has been developed considering energy efficiency factor. The project is already certified as Green building. Energy conservation method has already been adopted. High (COP 6.2) chiller LED lighting, Solar panel and wind has been installed. The project is LEED Certified building under U.S.G.B.C.

Design layout should ensure adequate solar access and ventilation. Proper planning and window design for daylight integration should be considered.

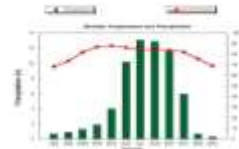


TEMPERATURE
 AVE. HIGH : MAR - MAY (UPTO 36° C)
 AVE LOW : NOV - JAN (10° C -22° C)

HUMIDITY
 AVG. (UPTO 75%)RH.

OVERHEATED PERIOD
 10:00 AM TO 6:00 PM -FEB TO MARCH
 08:30 AM TO 6:00 PM -APR TO AUGUST

PERCIPITATION
 MAXIMUM FROM JUNE TO OCTOBER



Design layout developed in such a way that natural ventilation and natural day light entered in the building. The building orientation it self create shading effect to reduce the heat load.

Use of ash based bricks should be explored to the maximum extent possible. Blended cement with fly ash will be used .The provisions of MoEF notification on “Fly Ash Utilization” must be compiled with.

Blended cement with fly ash and fly ash bricks has been used as per MoEF notification. Fly Ash bricks has been used in landscaping work. Only PPC cement has been used which is blended with 25% of fly ash (max). ACC block has been used for brick wall.

Construction should conform to the requirements of local seismic regulations. The project proponent should obtain permission for the plans and designs including structural design, standard and specifications from concerned authority. Structural design has been developed by the authorized structural designer for confirming and fulfillment of local seismic regulations.

Construction technologies that require less material and possess high strength should be adopted. Materials with low embodied energy and high strength should be used preferably.

An energy efficient construction material has been used for achieving the desired thermal comfort. The design has been developed considering energy efficiency factor.

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Use of alternate building materials and alternate construction techniques should be considered apart from the conventional materials and methods. Use of hollow unit masonry should be considered.

The project has already been pre certified as Green building. Energy conservation method adopted. High (COP 5.6) chiller LED lighting, Solar panel and wind mill has been installed. Energy modeling cared out to finalize the electrical equipments.

Use of energy efficient lighting systems e.g. High Pressure Sodium Vapour (HPSV) Lamps, LED etc. should be promoted. Solar energy should be used for outdoor lighting as far as practicable.



Energy efficient lighting systems e.g.CFL, LED etc. has been used . Street lightings are fitted with HPSV lamps.

Passive solar cooling to be incorporated in building design. Buildings should be oriented for ensuring natural ventilation and day lighting.

Passive solar cooling has been incorporated in building design for ensuring natural ventilation and day lighting. Double glazing has been provided to reduce solar heat gain.

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Proper insulation of roof should be provided to achieve desired thermal comfort. Use of light colored, reflective roofs having an SRI (solar reflectance index) of 50% or more should be incorporated.



HIGH ALBIDO PAINT HAS BEEN APPLIED AND ROOF TOP GARDEN

Proper insulation of roof has been implemented to achieve desired thermal comfort. As over dace insulation High Albido pain has been applied. On some roof area roof garden has been provided.

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Use of high albedo or reflective pavements to keep parking lots, pavements and inside roads cool should be incorporated.



High Albedo paint with 78 SRI has been applied on the roof top. Roof top garden has also introduced to reduce heat island effect and HVAC load.

Guidelines to the occupants should include usage efficiency measures such as energy efficient lighting and water efficient system.

A tenement guideline has been developed. That gives as a user manual to obey the rules and regulation of this building.

Reduce hard paving-onsite (open area surrounding building premises) and/or provide shade on hard paved surfaces to minimize heat island effect and imperviousness of the site.

Using of grass paper block instead of hard paving-onsite (open area surrounding building premises) to minimize heat island effect and imperviousness of the site.

Adequate open space, greenery and water bodies to be provided as per rules.

Adequate open space, 20 % greenery and a water body has been developed as per rules.

Any proposed building with air-conditioning facility should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency. Chillers should be CFC & HCFC free.

Air-conditioning system has been installed as per norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency. The chillers with CFC & HCFC free. R134 A refrigerant has been used . COP of the chiller is 6.2.

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Restrict the use of glazed surface as per National Building Code 2005.

Double glazing provided to reduce solar heat gain. Glazed area has not crossed 40% of the façade area of the building.

No water body should be lined and no embankments should not be cemented. The water bodies are to be kept in natural conditions without disturbing the ecological habitat. The water bodies within the project area shall be maintained in conformity with the conditions stipulated in the Environmental Clearance and the NOC accorded to the Department of Housing , Government of West Bengal for the proposed New Town project at Rajarhat



Artificial water body has been developed to reduce heat island effect and used as a rainwater harvesting pond.

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The unit should strictly abide by The West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007. The proponent should undertake plantation of trees over atleast 20% of the total area.



Plantation programme has been developed at least 20% of the total area as per Environmental Clearance.

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The proponent should plant at least 570 trees. 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.

**GREEN LANDSCAPE**

More than 570 trees has been planted of different species for landscaping. The landscape planning includes plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species has not been used for landscaping.

Water requirement during construction phase shall be met from WBHIDCO/ Notified Township Authority supply. Ground water should not be abstracted without prior permission of the competent authority as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.

Water requirement has been met from WBHIDCO during construction phase.

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As per the proposal submitted by the proponent wastewater shall be treated in STP. Treated waste water shall be reused and partly discharged to WBHIDCO / Notified Township Authority sewer line.

As per proposal waste water treated at STP for reuse as per requirement. It is a zero discharge unit

Total paved area of site under parking, roads, paths or any other use should not exceed 25% of the site area.

Total paved area of site under parking, roads, paths or any other use has not exceed 25% of the site area.

Minimum 50% of paved area on site should have pervious paving or shaded under vegetation or topped with finish having solar reflectance of 0.5 or higher.

50% of paved area on site has been developed as pervious paving on grass pavers blocks and rest of the part are shaded under vegetation.

Adequate storm water drainage network to be designed for the project without disturbing the surrounding settlements. Storm water management plan should be implemented so as to prevent sudden discharge of excessive volumes of storm water to the receiving waters thus reducing the shock load on the municipal drainage system and impact on receiving water body.

Adequate storm water drainage network has been developed as per design of project without disturbing the surrounding settlements. Storm water management plan has already been implemented. Collecting pit has been used for controlling surface runoff, specifically during monsoon.

Disruption to the natural hydrology of the site should be minimized by reducing impervious cover, increasing on site infiltration and managing storm water runoff.

Rain water collection pit, storm water collection pit , natural landscaping etc will be minimize and manage storm water runoff and increasing infiltration. Collecting pit has been used for controlling surface runoff, specifically during monsoon. As runoff coefficient is not changed much due to usage of grass papered block and landscaping. Roof top collection goes to the Rainwater collection chamber.

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Heat island effect should be minimized by use of shading or reflective surfaces, mainly the surfaces that contribute to the heat island effect i.e. streets, sidewalks, parking lots and buildings.



Double glazing provided to reduce solar heat gain and plantation reduce heat inland effect. Albedo paint with high SRI has been applied on the roof. Plantation programme has been done in such a way that shading coefficient will increase on path way and on internal road.

The proponent must follow the Rainwater Harvesting Guidelines of the State Expert Appraisal Committee (SEAC) available in the website (<http://www.wbpcb.gov.in>).

Rain water has been collected from duct at the roof top and stored in rain water harvesting tank. Pond also been used as a rain water storage Rainwater harvesting scheme has been proposed as per the SEAC guide line. Rainwater from roof-top has been collected in the rain water harvesting tanks.

The proponent must collect rainwater from roof-top catchments and reuse for various purposes after necessary cleaning. Water bodies should be created and used for storing rain water. Adequate retention time and storage provisions should be provided for harvesting rainwater.

Rainwater harvesting scheme has been proposed as per the SEAC guide line. Roof-top rainwater will be collected in the rain water harvesting tanks. The artificial water body has also been created and used for storing rain water.

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The sub-surface recharge proposal including the design of recharge structure and location of recharge structure should be approved by competent authority as per West Bengal Ground Water resources (Management, control and Regulation) Act, 2005. The total quantity of the rainwater which would be harvested, including surface storage and sub-surface recharge, should also be mentioned in the proposal.

Collected rainwater are being treated in tertiary filter and being recharged. An artificial water body has also been used as ground water recharge pit for surface storage and sub-surface recharge as per West Bengal Ground Water resources (Management, control and Regulation) Act, 2005.

Adequate water storage for firefighting storage should be provided as per norms.

Adequate water storage for firefighting has already been developed. Fire clearance as already been received from fire department.

Adequate provision shall be made for storage of solid waste and adequate means of access shall be provided. Space should be kept reserved for waste storage, collection etc. in site planning and architectural designs.

Adequate provision for storage of solid waste has been available. Reserved space for waste storage, collection etc. as per site planning and architectural designs has already been constructed. Solid waste disposed through WBHIDCO.

Both internal and external traffic planning and management should be adequate to ensure uninterrupted traffic movement in the area during construction as well as operation phase.

As per traffic planning and management both internal and external traffic have an adequate place for ensure uninterrupted traffic movement at the time of construction and well as maintaining in operation phase also.

The design of service road and the entry and exit from the project area should conform to the norms & standards of competent authority for traffic management. Bell mouth type arrangement should be made at the entry & exit. Proper traffic management plan should be adopted in consultation with Traffic authorities.

Entry and exit has been located properly constructed as per norms & standards of competent authority for traffic management.

All mandatory approvals and permission as required from Director of Explosives, Fire Department etc. should be obtained.

Approvals from Director of Explosives, Fire Department available

Provision of Effective Controls and Building Management Systems such as Automatic Fire Alarm and Fire Detection and Suppression System etc. must be ensured.

The building is being controlled by BMS. Automatic Fire Alarm and Fire Detection and Suppression System has been installed. All mandatory system like Automatic Fire Alarm and Fire Detection and Suppression System etc has been installed for firefighting as per approvals and permission as required from Director of Explosives, Fire Department etc.

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Automatic lighting control, occupancy sensors, heat exchanger, high efficiency chillers etc. should be provided for energy conservation wherever applicable.

All lighting fitting and fixture (inside the building) is LED fitted with automated system.

Efficient management of indoor air quality must be ensured for health and safety of the users.

Efficient indoor air quality will be implemented as per construction schedule for health and safety of the users.

Adequate measures to be adopted for water conservation during construction and operation stage. Use of efficient irrigation equipment, evaporative cooling unit in air-conditioning system etc. should be considered.

The dual flushing unit has been developed

Rest room facilities should be provided for service population.

It will be applicable after full completion of the project when the facility management will take charge

Provisions should be kept for the integration of solar water heating system.

Available

Adequate access to fire tenders should be provided.

Available

CO monitoring facility with automatic alarm should be provided at basement car parking.

A co monitoring and alarm system has been installed.

Operational Phase

Water requirement during operation phase shall be met from municipal supply. Ground water should not be abstracted without prior permission of the competent authority as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.

WBHIDCO fulfilling water requirement of the building. HIDCO supply is restored.

Use of water meter conforming to ISO standards should be installed at the inlet point of water uptake to monitor the daily water consumption. Use of water efficient devices / fixtures and appliances should be promoted. Installation of dual flushing system should be considered to conserve water.



ISO certified efficient water meter installed at inlet point water uptake for monitoring the daily water consumption. STP treated water has been used for dual flushing unit for water conservation.

The proponent must practice rainwater harvesting on regular basis.

Stored rain water has been used for car washing, gardening etc.

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As per the proposal submitted by the proponent wastewater shall be treated in STP. Treated wastewater shall be mostly reused and partly discharged to municipal sewer line during rainy season only. Discharge of treated sewage should conform to E(P) Rules. Sewage Treatment Plants should be monitored on a regular basis.



The total amount of waste water treated in STP. It is a zero discharge unit. Treated water will be reused for plantation and internal road cleaning. Sewage Treatment Plant's water has been monitored at the regular basis by NABLE accredited and WBPCB recognized laboratory as per E (P) Rules.

Reuse of treated wastewater should be carried out as proposed.

Treated effluent is being used in cooling tower, gardening, road cleaning etc.

Noise barriers will be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. Diesel generator sets should be provided with integral acoustic enclosure at the manufacturing stage itself as per CPCB norms.

3 nos. DG sets each 500 KVA, 2 nos. DG sets each 750 KVA, 6 nos. DG sets each 625 KVA & 2 nos. of DG sets 1010 KVA (as per amended NOC)

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The stack height and emissions from D.G. sets should conform to the norms of Central Pollution Control Board. The certification of space design for DG sets should be done by competent authority.



DG stack height has been constructed as per norms of Central Pollution Control Board. DG sets are confirming by the WBPCB recognized laboratory for air and noise emission standards.

All DG sets are having inbuilt acoustic enclosure as per CPCB norms. DGs are in running condition. Stack gas has been monitored periodically by NABL accredited and WBPCB recognized laboratory as per E (P) Rules prescribed for air and noise emission standards along with construction power supply from NTESE.

The source emission monitoring have minimum requirement of a stack monitoring equipment. There are some mandatory specification as per CPCB norms . The parameters are: Flue Gas Temperature (OC) , Barometric Pressure (mm of Hg.), Velocity of Gas flow (m/s), Quantity of Gas flow (Nms/hr.), Concentration of SO₂ (mg/Nm³), Concentration of CO₂ %(V/V), Concentration of CO %(V/V), Concentration of Particulate Matter(mg/Nm³)

Monitoring has been done by Condenser method. The condenser method, in principle, involves extracting a sample of the stack gases through a filter for removal of the particulate matter, then through a condenser, accumulating the condensate formed in process, and finally through a gas meter. The object of the test is to collect and measure the volume of all the condensate formed at the condensing temperature from a measured amount of gas.

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Except in unusual circumstances, the water vapour is uniformly dispersed in the gas stream and therefore sampling for moisture determination need not be is kinetic and is not sensitive to position in the duct. The sampling nozzles may be positioned down –stream to minimize the buildup of pressure drop across the thimble due to particulates catch. Sample the gas at a rate of about 500 ml/ sec. run the test until enough condensate has been collected to enable an accurate measurement. Measure the temperature and pressure of condenser close to the meter, as an insignificant pressure loss in the line between them is expected. The meter pressure may be substituted for condensate pressure also in order to calculate the moisture content. Measure the volume of condensate collected in a graduated measuring cylinder.

Use of energy efficient construction materials to achieve the desired thermal comfort should be incorporated. The desired level of R and U factors must be achieved. U factor for the top roof should not exceed 0.4 Watt/sq.m/degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 should be strictly followed.

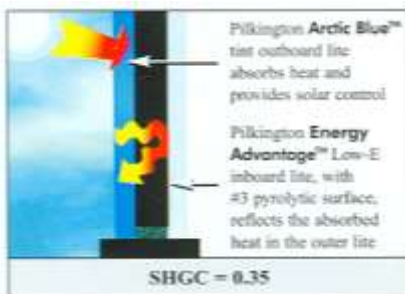
Envelope design - Curtain wall / window

Following performance mandates shall be considered to choose the right glass for a successful envelope design:

- Thermal performance
- Acoustical Performance
- Visual Performance

Thermal performance

There are two parameters namely ‘U-value’ or air to air heat transmittance and SC- Shading Coefficient determine the power consumption factor in terms of designed air quantity (CFM) and Cooling load(TR) respectively. Reduced U-value provides good thermal control and lesser SC provides better solar control as by resisting direct radiation. Use of Double glazing with tinted & reflective coated glass on # 2 surface would provide a superior performance with respect to heat insulation . glass.

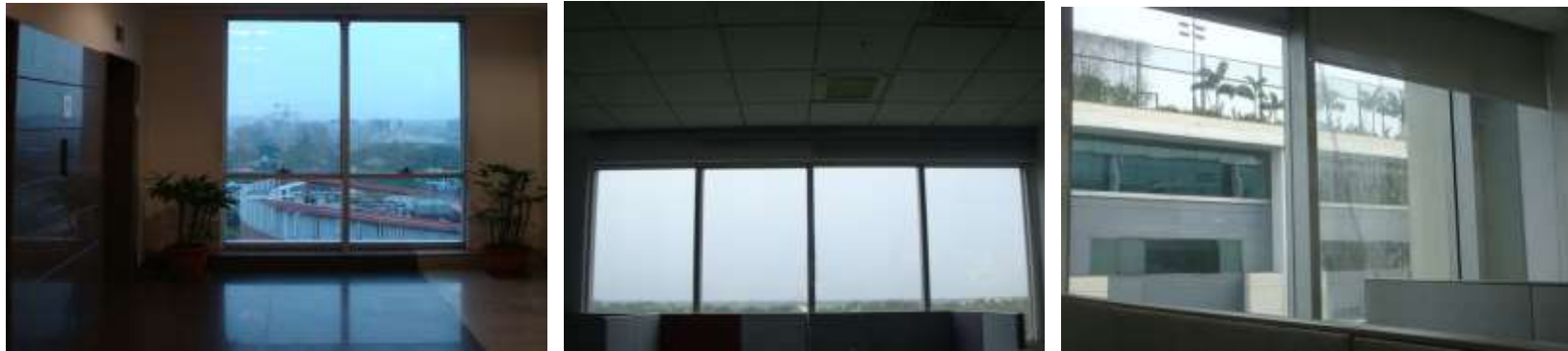


Combining the solar control properties of a tinted or reflective outboard lite (such as the Pilkington Arctic Blue™ High-Performance Tint shown here) with the thermal control properties of Pilkington Energy Advantage™ Low-E gives you an almost limitless range of aesthetic and performance possibilities.

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The selection of high performance glass become imperative for the southeast and southwest to reduce the energy load. It is recommended to use a SC value of between $SC = 0.1$ to 0.4 & a U- value of $U = 1.7$ to $3 \text{ W/m}^2 \text{ 0 K.}$ Energy efficient construction materials are using to achieve the desired thermal comfort. The design has been developed considering energy efficiency factor as per National Building Code 2005.

The lightning design and the heating, ventilation and air conditioning systems should conform to the recommendations of the Energy Conservation Building Code 2007 of the Bureau of Energy Efficiency, GoI.

**NATURAL DAY LIGHTNING**

The lightning design and the heating, ventilation and air conditioning systems are developed as per electrical DBR

Use of energy efficient electrical systems should be promoted. High efficiency lamps with electronic ballasts should be used

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COMMON SPACE WITH LED LIGHTING SYSTEM

Use of energy efficient lighting systems e.g.CFL, LED etc. have been used in common place.



The project maintains energy conservation using LED throughout the project. Any up lighter has not been used to protect light pollution.

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Energy efficient Motors and properly rated Transformers should be installed. Manufacturer's certificate to this effect shall be obtained and kept on record. Backup power supply should be based on cleaner fuel.

Cleaner fuel has been used for DG sets for backup power supply. Use of cleaner fuel (HSD) to minimize the energy consumption and excessive fuel usages for control the environmental pollution.

The power cabling shall be adequately sized as to maintain the distribution losses not to exceed 1% of the total power usage. Record of transmission losses shall be maintained. The proponent shall install permanent electrical metering to record demand (kVA), energy (kWh) and total power factor.

Power cabling has been done utilizing the shortest way to loss of energy.

The project proponent should resort to solar energy at least for street lighting and water heating.



The solar street lighting system has been installed for energy conservation.

[Energy audits should be conducted on a regular basis.](#)

Energy audit has been conducted on a regular basis.

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Use of public mode of transportation should be promoted. Use of the least polluting type of transportation should be promoted. Adequate parking space should be provided as per norms.

**POOL CAR FACILITY FOR WHOLE ECOSPACE CAMPUS****AVAILABILITY OF PUBLIC TRANSPORT JUST OUTSIDE THE CAMPUS****INTERNAL AND EXTERNAL TRAFFIC MANAGEMENT**

As per traffic planning and management both internal and external traffic have an adequate place for ensure uninterrupted traffic movement in the project area during operation. Adequate open car parking space covered car parking space at the basement and ground floor available as per norms.

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Pathways should be covered or shadowed by tree canopy. Transport system should be such that traffic will be calm in neighborhoods. Traffic in residential areas should be restricted by regulation. Adequate vertical and horizontal clearances of overhead electric power and telecommunication lines should be provided.

**PATHWAY COVERED WITH TREE CANOPY**

Pathways is covered or shadowed by tree canopy. Open car parking facility has been provided on grass pavers block only to reduce the heat island effect. It also enhance the perviousness of the land.

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The proponent should abide by the Municipal Solid Wastes (Management and Handling) Rules, 2000. The proponent must develop the Solid Waste Management and Disposal Scheme ensuring storage and segregation of biodegradable and non-biodegradable wastes. The solid waste is to be disposed of in consultation with WBHIDCO/ Notified Township Authority.



Solid waste are segregated at each floor level .Waste are collected in separate bins dedicated from bio degradable, non-bio degradable and recyclable materials. Separated wastes are stored temporarily at solid waste yard. Solid waste are disposed off through WBHIDCO municipal collection system.

The proponent should provide different colored bins for different categories of waste and ensure complete segregation of biodegradable and non-biodegradable wastes. The solid waste from different collection and storage bins should be finally collected at transfer stations. Further segregation will be done at transfer stations to collect recyclables such as plastic, polythene, glass, metals, textiles, rubbers, leathers, paper etc. Separate compartments shall be provided for each type of recyclables.

Wastes are collected in separate bins dedicated from bio degradable, non-bio degradable and recyclable materials. Bins are portable and fitted with wheels to move to the collection yard. The yard is constructed room having different chambers for dumping the different category of solid waste.

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The proponent should abide by the Hazardous Wastes (Management, Handling) Rules, 2003. Collection and storage of hazardous wastes during Preconstruction and Post-construction activity should be planned properly. The expected hazardous wastes should be disposed of separately as per the Hazardous Wastes (Management and Handling) Rules, 2003. Hazardous waste is not generated in the premises of ECOSPACE.

Spent oil from DG Sets should be stored in HDPE drums in isolated covered facility and disposed of as per the Hazardous Wastes (Management and Handling) Rules, 2003. Spent oil from DG Sets should be disposed of through registered recyclers only.

Spent oil of DG sets is being stored in HDPE drums in isolated cover facility. Quantity of generation very less and being generated only during service of DG. Spent oil are sold to authorized vendor

Various types of electrical and electronic wastes generated in the building, which includes PC, Xerox machine components etc. should be collected separately for transportation to the authorized recyclers approved by the State / Central Pollution Control Boards. There should also be provision for storage of these wastes in the building before transportation. The E waste collected should be processed in authorized recycling unit.

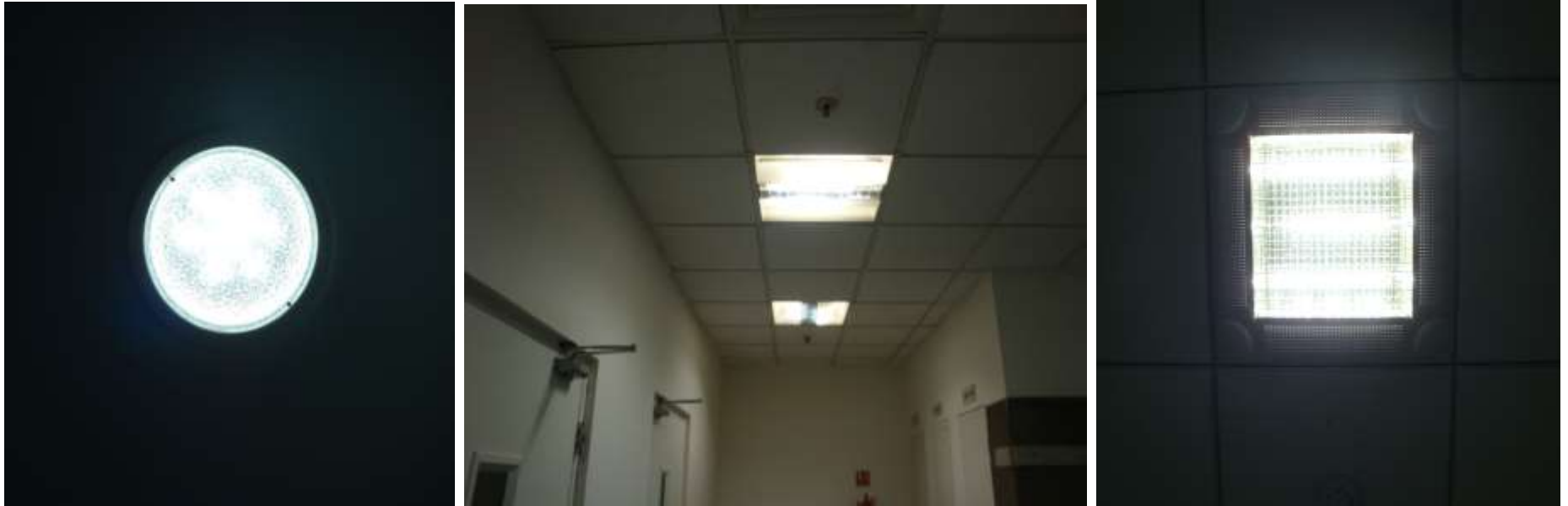
Generated electrical and electronic wastes are being managed by Buy-back policy. Facility management of Udayan Green field Developers Limited manages it. All units are agreed to maintain the buy back policy of E waste as per the tenant agreement.

The implementation of Environmental Management Plan should be carried out, as proposed. Regular monitoring should be carried out during construction and operation phases.

Monitoring at site are done in regular intervals by a WBPCB recognized I and NABL accredited laboratory expect in the monsoon season.

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The project proponent should provide guidelines to the users to ensure conservation of energy and water. In-house environmental awareness campaigns should be carried out at regular intervals to ensure environmental protection.



SAVINGS OF NATURAL RESOURCE

A tenement guideline has been provided to each office owner. In this guideline usage of energy, facility of HVAC, fit-out regulation use of VOC restriction in paints, water conservation and description of plantation are clearly mentioned

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Firefighting systems should be designed in compliance with the WBFS and NBC norms. Preventive measures should be adopted for Risk & Disaster Management as per the provisions of the National Building Code 2005.



FIRE FIGHTING SYSTEM

The project has already accorded the fire clearance from West Bengal Fire Engineering Department. Required sprinkler system, hydrant, Co2 sensor, smoke alarm has been installed along with emergency escape route. Fire mock drill will be conducted by facility managements team in a regular interval.

The proponent should implement Corporate Social Responsibility Plan with specific financial commitment for the proposed project.

The group has a separate Corporate Social Responsibility Department This department is responsible for implementing CSR programme at different area. Presently two schools are being run by this department at Rajarhat area. A road side plantation programme has also been taken at this area.

Environmental Management Information System shall be maintained properly.

Updated Environmental Management Information System is properly maintained.

Millennia Infrastructure Private Limited.**General Conditions**

The environmental safeguards contained in the EMP report should be implemented in letter and spirit.

EMP is implemented as specified in the report.

All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.

Facility team is maintaining all EMP . In due course the liability will be transferred.

Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase.

Kerosene had been supplied to labourers during construction phase.

All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.

Health checkup camp has been conducted by MIPL for construction workers. Necessary safety precaution is being taken during construction activity.

The project proponent should make financial provision in the total budget of the project for implementation of the suggested safeguard measures.

Financial budget attached to the report

Six monthly monitoring reports should be submitted to the West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards and should be given full cooperation , facilities and documents / data by the project proponents during their inspection. A. complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority.

Six monthly monitoring reports has been submitted to the West Bengal Pollution Control Board periodically. October 2018 to March 2019 periodic Six monthly monitoring report had been submitted with all necessary information to the West Bengal Pollution Control Board and forwarded to the State Level Environment Impact Assessment Authority.

In case of any violation of the conditions laid down in this Environmental Clearance, Section 16 of The Environment (Protection) Act, 1986, will be applicable.

Not Applicable

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In case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.

No change has been occurred in the project. There is no deviation as sanctioned by HIDCO and the same submitted to the Department of Environment Govt. of West Bengal. Only Dg capacity has been changed with prior permission from Department of Environment and Pollution Control Board.

The State Environmental Impact Assessment Authority, West Bengal reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.

The Project Proponent should inform the public that the proposed project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at website of the SEIAA, West Bengal (<http://enviswb.gov.in>). This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.

MIPL already received Environmental clearance by the SEIAA, West Bengal .After receiving clearance MIPL published public notice at two local newspaper English and Bengali

All other statutory clearances such as the approvals for storage of diesel room Chief Controller of Explosives, Civil Aviation Department (if required) etc. shall be obtained by project proponents from the competent authorities.

The project have all statutory clearance like

- Fire clearance from West Bengal Fire Engineering Department, Clearance from Civil Aviation Department.
- Clearance form BSNL
- Clearance form Airport authority

Provision for incorporation of appropriate conditions in the Sale Agreement / Deed, for ensuring sustained Operation and Maintenance (O&M) of the common facilities(STP, Rainwater harvesting system, Solid waste management system, Solar street lights etc.) even after transfer of ownership of the project, should be made in explicit and transparent manner.

The common facility like STP, Rainwater harvesting system, Solid waste management system, Solar street lights etc. are on operational condition and in under maintenance ensuring by Operation and Maintenance department, which is illustrate in the Sale Agreement.

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The project proponent should strictly abide by the conditions laid down in the Environmental Clearance for the proposed New Town Project at Rajarhat , Kolkata, accorded by the Department of Environment , Government of West Bengal to the Department of Housing , Government of West Bengal vide Memo No EN/1998/4W-8/99 dated 10th November, 1999 and Memo no EN/P/90/4W-8/99 (Pt.II) dated 30th January , 2003

MIPL fulfill all statutory compliance and maintain monthly basis which is illustrate in the NOC by West Bengal Pollution Control Board

The project proponent should also abide by the NOC conditions accorded by the West Bengal Pollution Control Board to the Department of Housing, Government of West Bengal for the proposed New Town Project at Rajarhat, Kolkata, vide Sl. No. 04462 Memo No. 1295-175/WPB-NOC/99-2000 dated 31st August, 1999 and Sl. No. NO10868 Memo No. 7041-175/wpb/NOC/99-2000 dated 9th June, 2004.

MIPL fulfill all statutory compliance and maintain monthly basis which is illustrate in the NOC by West Bengal Pollution Control Board.

Prior Consent-to-Establish (NOC) for the proposed project must be obtained from WBPCB by the proponent. All other statutory clearances should be obtained by project proponent from the competent authorities.

MIPL have all statutory clearance like Environmental clearance by the SEIAA, West Bengal, Fire clearance from West Bengal Fire Engineering Department, clearance from Civil Aviation Department, DOE approvals etc along with Consent-to-Establish (NOC) obtained from WBPCB.

The above stipulation would be enforced with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution), Act, 1981, the Environment (Protection) Act, 1986 , the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008, the Public Liability Insurance Act , 1991, the Environment Impact Assessment Notification 2006 and their amendments

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