

**COMPLIANCE REPORT OF ENVIRONMENTAL
CLEARANCE**

**FOR THE PERIOD OF 1ST APRIL -2017 TO
30TH SEPTEMBER-2017**

F.No. SEIAA 281/2014/EC/110



SUBMITTED BY-

**M/S. TERON CONSTRUCTION PVT. LTD
MAA PADMA COMMERCIAL COMPLEX,
H/N- 289, A.T ROAD, BHARALUMUKH
GUWAHATI- 781009**



EC COMPLIANCE REPORT FOR THE PERIOD APRIL'2017 TO SEPTEMBER'2017

Name of The Company: M/s. Teron Construction Pvt. Ltd.

Project : Proposed Residential Complex "UTTARAYAN VILLE" located at Narakasur Ganesh Turning Kahilipara, Guwahati-781019, Assam

Environmental Clearance Letter : F.No. SEIAA 281/2014/EC/110, Dated 29th January, 2015.

PART A - SPECIFIC CONDITIONS

I. Construction Phase

SN.	EC CONDITIONS	COMPLIANCE STATUS
1.	"Consent for establishment" shall be obtained from Assam Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA, Assam.	"Consent for establishment" is obtained from Assam Pollution Control Board vide letter No. WB/GUW/T-2860/14-15/264/1307 dated 10/03/2015 and already submitted to the SEIAA, Assam.
2.	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Necessary hygienic and sanitary measures are undertaken in the construction site and are being maintained throughout the construction phase.
3.	Adequate drinking water and sanitary facilities should be provided for construction workers at site. The safe disposal of waste water and solid wastes generated during construction phase should be ensured.	Drinking water and sanitary facilities is being provided at the site for construction workers. Provision for waste water & solid waste disposal are provided too.
4.	Provision shall be made for the supply of fuel (kerosene or cooking gas), utensils such as pressure cookers etc to the labourers during construction phase.	Agreed upon.
5.	All the labourers to be engaged for construction should be screened for health and adequately treated before engaged them to work at the site.	Is being complied.
6.	For disinfection of waste water, use ultra violet radiation, not chlorination.	We will use ultra violet radiation as per our requirement for disinfection of waste water instead of chlorination.
7.	A First Aid Room shall be provided in the project both during construction and operation of the project.	First aid kit facilities are being provided for the construction labourers in the site.
8.	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Excavated topsoil is stored in the site and were using for refilling, road work, and will be used for landscaping and horticulture purpose too.
9.	Disposal of muck during construction phase should 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.	Muck generated is being used for site leveling and filling low lying areas.

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10.	Soil and ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Analysis report of soil will be submitted in due course and Ground water analysis report is enclosed as Annexure-I . According to the analysis report all parameters are within the permissible limit so, there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
11.	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	Necessary precautions like, storing in impervious area, proper disposal of spoils etc are being taken to avoid leaching from Construction spoils including bituminous material.
12.	The diesel generators sets and concrete mixture to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	Agreed to maintain the emission standards by the Ready Mix Mobile Plant.
13.	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 th August, 2003 subject to availability of the same.	Fly ash will be used as building material.
14.	Ready mixed concrete must be use in building construction.	Ready mixed concrete will be used during building construction.
15.	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 and should be operated only during non-peak hours.	Good condition vehicles having PUC certificate is being used in our construction site for bringing materials.
16.	Ambient noise level should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB.	All the construction machineries/equipments used are of high standard and adhere to standards. So incremental noise level due to the construction is of negligible amount. Noise level within the site has adhered to ambient noise level. Water sprinkling done to mitigate dust suppression. Ambient noise level and ambient air quality is being monitored. -Monitoring reports is enclosed as Annexure-II .
17.	Storm water control and its re-use as per CGWB and BIS standards for various applications are maintained.	Storm water to be stored in underground tank for curing and construction purpose.
18.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Ready Mix Concrete is being used from outside vendor for all major slab casting.
19.	Permission to drawl of ground water shall be obtained from the competent Authority prior to construction/operation of the project.	Already boring was done on 2010 before development agreement.
20.	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	Dual plumbing line will be adopted for separation of grey and black water.

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SN.	EC CONDITIONS	COMPLIANCE STATUS
21.	Treatment of 100% grey water by decentralized treatment should be done.	Noted and will be complied.
22.	Fixtures for showers, toilet flushing and drinking should be low flow either by use of aerators or pressure reducing devices or sensor based control.	Every feasible option will be adopted to reduce the flow of water for showers, toilet flushing and drinking purpose.
23.	Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality low E value glass.	Will be complied.
24.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation materials to fulfill requirement.	Will be complied.
25.	Adequate measures to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.	Control measures like good conditioned vehicles, machines and wetting of road, etc. were adopted to reduce ambient air and noise pollution during construction phase. Refer Monitoring Reports as Annexure-II . All the D.G. sets of the proposed project would attach necessary Acoustic Enclosure to reduce the noise from D.G. sets and will be attached with stacks height as per CPCB norms.
26.	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is inspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	Will be complied.
27.	Width of the internal road and exist & entry road shall be as per MoEF Guidelines.	Agreed with.
28.	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc.	-The approval of the structural safety of the buildings due to earthquake has been applied. -Provisional Approval of State Fire Service Organization, Assam, Guwahati is conveyed vide letter No. F&ESS/FPW/2140/640/15, dated 12/05/2015 for the adequacy of fire fighting equipments etc. -Lightening arrestor will be provided as per the guidelines.
29.	The storm water drainage shall be worked out after analyzing the contour levels of the site and the surrounding area and the capacity of the storm water drainage.	Final calculation will be provided by our MEP consultant considering the final level of all the towers.
30.	Provision shall be made for housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, 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.	Necessary infrastructure & required facilities considering hygienic conditions to construction labour within site is provided
31.	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms.	If any hazardous waste is generated then it will be disposed as per applicable rules and norms.

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32.	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	We purchase only the required diesel as per the tank requirement of the DG.
33.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Regular supervision of safety and other measures for monitoring during construction phase is carried out.
34.	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Agreed with.

II. Operation Phase

SN.	EC CONDITIONS	COMPLIANCE STATUS
1.	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the SEIAA, Assam before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms & standards prescribed by CPCB. Treated waste water shall not be discharged to nearest river stream any way.	-Report of certified Sewage Treatment Plant (STP) will be prepared & submitted after installation to SEIAA, Assam. -Treated effluent will be recycled/ reused for the flushing and gardening purpose. -Regular maintained of STP will be carried out to mitigate odour problem.
2.	Rain water harvesting for roof run-off and surface run-off should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging should be kept at least 5mts. above the highest of ground water table.	Construction of Rainwater harvesting structure will be constructed as per our lay out plan.
3.	The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	We will adopt practice of segregation of biodegradable and non biodegradable waste. There will be provision of door to door collection facility. The waste will be sent to a centralized collection facility. All the organic waste will be converted in to compost used for horticulture work and non biodegradable waste will be disposed off through GMC.
4.	Any hazardous waste biomedical waste should be disposed of as per rules framed under EP Act, 1986.	Agreed with.
5.	The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety 33% Green Belt shall be developed Peripheral plantation width should not be less than 1 mtr.	Noted.
6.	Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.	Will be monitored periodically.
7.	Application of solar energy should be incorporated for illumination of common areas. Lighting for gardens and street lighting in addition to provisions for solar water heating. A hybrid system or fully solar system for a portion of the apartments should be provided.	Will be complied.

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8.	Traffic congestion near the entry and exist points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Agreed with.
9.	Proper seepage control measures shall be adopted.	Agreed with.
10.	A report on the energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency should be prepared incorporating details about building materials & Technology, R & U Factors etc and submit to the SEIAA, Assam in three months time.	Will be complied, at present energy consumption is very low due to usage of LED Lights in every towers.
11.	Diesel power generating sets proposed as source of power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel is obligatory. The location of the DG sets may be decided suitably without disturbance to the public.	Will be complied once the project is in the operation phase.
12.	The ground water level and its quality should be monitored regularly.	Will be monitored periodically.
13.	Adequate measures shall be taken to prevent odour problem from solid waste processing plant and STP.	Regular maintenance of STP will be done to prevent odour problem.
14.	The building shall have adequate distance between them to allow movement of fresh air and passage of natural light, air, and ventilation.	It has been designed such that free passage of light and fresh air can pass.
15.	The emergency evacuation plan shall be implemented as stated.	Agreed with.
16.	The internal roads shall be as per MoEF guidelines & there shall be separate exit and entry roads for residential buildings.	Will be adhere

PART - B. GENERAL CONDITIONS

SN.	EC CONDITIONS	COMPLIANCE STATUS
1.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, Assam/ Regional Office of MoEF, Shillong.	Six monthly EC reports on the status of the stipulated EC conditions including results of monitored data are submitted to the SEIAA, Assam and Regional Office of MoEF, Shillong. Last EC Compliance reports for the period October'2016 to March'2017 was submitted vide our letter no. Nil dated 29 th May 2017 to the competent authorities.
2.	Officials from the SEIAA, Assam, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data by the project proponents during their inspection.	-We ensure to provide full cooperation, facilities and documents/data required by the Officials from SEIAA, Assam during their inspection. A complete set of all the documents will be submitted to SEIAA, Assam.
3.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, Assam.	Agreed with.

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4.	The SEIAA, Assam 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.	Agreed with.
5.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted and will be complied when it will be required.
6.	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.	Agreed with.
7.	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.	Agreed with.
8.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their websites and shall update the same periodically. It shall simultaneously be sent to the SEIAA, Assam. The criteria pollution levels namely; PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , etc (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and a record be maintained for the public domain.	Status of compliance of the stipulated EC conditions is uploaded on our website i.e www.uttarayanville.com being updated periodically. Simultaneously is being regularly sent to the SEIAA, Assam.
9.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the SEIAA and State Pollution Control Board, Assam as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Environment Statement will be submitted to SEIAA, Assam & Pollution control Board, Assam.
10.	The SEIAA, Assam may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed with.
11.	The project proponent should advertise in at least two local News papers widely circulated in the region, one of which shall be in the vernacular language informing that the Project has been accorded Environmental Clearance & copies of clearance letters are available with the SEIAA, Assam. The advertisement should be made 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the SEIAA, Assam.	We have already complied it. Public notice is published in News Paper "The Sentinel" Guwahati dtd. 6 th Feb./2015 in English and "Janasadharan" dtd. 6 th Feb./2015 in Assamese.



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ANNEXURE-I

GROUND WATER ANALYSIS REPORT



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ANNEXURE-II

MONITORING REPORTS