



Ref: MIREPL/104(A)/ 2693

Dated: 27th May, 2015

✓ The Director
The Ministry of Environment & Forest
North Eastern Regional Office
Law-U-Sib, Lumbatngen
Near M.T.C. Workshop
Shillong 793021, Meghalaya

Subject : Submission of six monthly compliance report for Construction of Hotel-cum-Office-Complex at old SMB Complex, Police Bazar, Shillong, Meghalaya from for the period from October 2014 to March 2015

Dear Sir,

With reference to the above mentioned subject, we humbly submit herewith the following documents, in original:

1. Compliance Report for the period from October 2014 to March 2014: **As per Annexure A.** along with
 - a. Water Test Report & Soil Test Report : **As per Annexure I**
 - b. Ambient Air Analysis report & Noise Level Measurement Analysis Report: **As per Annexure II**

Kindly acknowledge the receipt of the same.

Thanking you.

Yours faithfully,
For **MAXIM INFRASTRUCTURE & REAL ESTATE PVT. LTD.**

[Handwritten Signature]

Authorised Signatory

Enclosed as above

Central Pollution Control Board
North Eastern Zonal Office,
Shillong Receipt No.....
Date: 29/5/15



[Handwritten Signature] 29/5/15

- C.C.: (i) The Scientist-E & Incharge, Central Pollution Control Board Shillong, Zonal Office (Tum-Sir), Lower Motinagar, Near Fire Brigade HQ, Shillong 793014
- (ii) The Member Secretary, O/O The Meghalaya State Pollution Control Board, 'ARDEN', Lumpyngngad, Shillong 793014, Meghalaya



COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE
FOR THE PERIOD OF APRIL- 2014 TO SEPTEMBER-2014

Name of The Company : M/s. Maxim Infrastructure & Real Estate Pvt. Ltd.
 Project : Construction of Hotel cum-Office Complex at old SMB Complex, Police Bazar, Shillong, Meghalaya.
 Environmental Clearance Letter : No. 21-7/2011-IA.III Dated 1st June, 2011.

PART A - SPECIFIC CONDITIONS:

I. Construction Phase:

NO.	CONDITIONS	COMPLIANCE STATUS
(i)	"Consent for Establishment" shall be obtained from Meghalaya State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	Complied with. "Consent for Establishment" is obtained from Meghalaya State Pollution Control Board vide letter no. MPCB/TB-51(2012)/2012-2013/14 dated 27 th August, 2012 and already submitted to the Ministry.
(ii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the Project'	Necessary facilities like temporary house, toilets, safe drinking facility, etc. are provided to construction labour.
(iii)	A First Aid Room will be provided in the project both during construction and operation of the project.	Complied with. A First Aid Room having Stretcher & medicines are provided.
(iv)	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	No top soil generated as there was SMB office.
(v)	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.	Solid wastes generated in the form of muck during construction phase were disposed in the site approved by Shillong Municipal Board at Mowiong.
(vi)	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Soil and ground water samples are being tested regularly. Monitoring reports is enclosed as Annexure-I .
(vii)	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, etc. are being taken to avoid leachate from Construction spoils, including bituminous material to contaminate watercourses by leaching into the ground water.

NO.	CONDITIONS	COMPLIANCE STATUS
(viii)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Meghalaya State Pollution Control Board.	Hazardous waste, if any generated then it will be disposed as per applicable rules and norms with necessary approvals of the Meghalaya State Pollution Control Board.
(ix)	The diesel generator sets 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.	<ul style="list-style-type: none"> - Low sulphur diesel fuel is being used in the Diesel generator set. - Air & noise monitoring were conducted within site to confirm parameters within standards norms.
(x)	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. DG set shall meet the CPCB norms.	Diesel required for the operating DG sets is procured from nearby petrol pump as and when required and is not stored at site. Before commencement of operation we will take clearance from Chief Controller of Explosives.
(xi)	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 conditioned vehicles having Pollution check certificate is hired for the bringing construction materials and operated only during non-peak hours.
(xii)	Ambient noise levels 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/ MSPCB.	<ul style="list-style-type: none"> - Ambient noise level and ambient air quality is being monitored regularly. - Monitoring reports are enclosed as Annexure-II. - Control measures like CGI sheet surrounding the site, Good conditioned vehicles, wetting of road, etc. were adopted to reduce ambient air and noise pollution during construction phase.
(xiii)	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.	Fly ash based cement and bricks are being used in the construction.
(xiv)	Ready mixed concrete must be used in building construction.	Ready mixed concrete is being used in building construction.
(xv)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Rain water harvesting plan is already proposed and will be constructed accordingly.
(xvi)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Ready mixed concrete is being used in building construction to reduce water demand.

NO.	CONDITIONS	COMPLIANCE STATUS
(xvii)	Permission to draw ground water shall be obtained from the competent Authority prior to construction/ operation of the project.	As, location of the project site falls in safe category based on Ground Water Resource Estimation (GWRE) 2009, Permission to draw ground water is not required as per the Guidelines/Criteria for evaluation of proposals/ requests for ground water abstraction (with effect from 15/11/2012) of Central Ground Water Authority. However application has been made to CGWA and the file is in process.
(xviii)	Separation of grey and black water should be done by the use of duel plumbing line for separation of grey and black water.	Duel plumbing line is being installed for the separation of grey and black water.
(xix)	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	Necessary arrangements will be done to control flow of showers, toilet flushing and drinking water fixtures. We are going for Leed Certification which enables us to adopt high standards in terms of water conservation and all types of resource conservation.
(xx)	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 double glass with special reflective coating in windows.	High quality double glass with special reflective coating in windows will be used to reduce the electricity consumption and load on air conditioning. Glass specification: Glass code- KT155 DGU unit- 8mm glass 12 mm vaccum With thermal break and argon gas.
(xxi)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Roof of the building is being constructed as per recommended in a Report on the energy conservation measures already submitted. Insulation of roofslab/ terrace with 2 mm. nitocote CM210; 4mm mineral finish polyester membrane proofex 4P; 50mm thermal insulation with insuboard & 1.4mm vapour barrier technology.
(xxii)	Opaque wall should meet prescriptive requirement as per	Opaque wall shall be

NO.	CONDITIONS	COMPLIANCE STATUS
	Energy Conservation Building Code which is proposed to be mandatory for all airconditioned spaces while it is aspirational for non-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	constructed as per Energy Conservation Building Code.
(xxiii)	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.	<ul style="list-style-type: none"> - The approval of the Department of Civil Engineering, Jorhat Engineering College, Assam is obtained vide letter no. JEC/CIV/CONS/12-13/12-12, dated 12.12.2012 for structural safety of the buildings due to earthquake - Approval of Fire department will be obtained for the adequacy of fire fighting equipments. - Lightning arrestor will be provided as per the guidelines.
(xxiv)	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 is being carried out by qualified personnel.
(xxv)	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.

II. Operation Phase:

NO.	CONDITIONS	COMPLIANCE STATUS
(i)	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 Ministry before the project is commissioned for operation. Treated affluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralised treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the Assam State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.	<ul style="list-style-type: none"> - Report of certified Sewage Treatment Plant (STP) will be prepared & submitted after installation. - Treated effluent will be recycled/ reused for the flushing and gardening purpose. - Regular maintenance of STP will be carried out to mitigate odour problem.
(ii)	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.	<ul style="list-style-type: none"> - Solid waste will be properly collected and segregated through different colour dust bins. - Biodegradable waste will be composted and used as manure for the plantation. - Dry/inert solid waste will be disposed through Shillong Municipal Board.

NO.	CONDITIONS	COMPLIANCE STATUS
		<ul style="list-style-type: none"> - We are in the process of proposing a tie-up with the Shillong Municipal Board for the disposal of bio-degradable waste.
(iii)	<p>Diesel power generating sets proposed as source of back up power for elevators and common area illumination 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 low sulphur diesel. The location of the DG sets may be decided with in consultation with Meghalaya State Pollution Control Board.</p>	<ul style="list-style-type: none"> - Diesel Power generating sets will be kept in closed area having stack height of 3.1 m. - Low sulphur diesel will be used as a fuel.
(iv)	<p>Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.</p>	<ul style="list-style-type: none"> - Low noise generating D.G. set will be placed with closed area to control noise levels. - Regular noise monitoring will be carried out.
(v)	<p>The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.</p>	<p>Adequate green belt will be developed and maintained within project site.</p>
(vi)	<p>Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.</p>	<p>Sufficient weep holes in the compound wall will be provided to ensure natural drainage of rain water.</p>
(vii)	<p>Rain water harvesting for roof run- off and surface run- off, as plan submitted 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 5 mts. above the highest ground water table.</p>	<p>Rain water harvesting will be implemented as per the scheme submitted.</p>
(viii)	<p>The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.</p>	<ul style="list-style-type: none"> - Ground water quality is being monitored regularly.
(ix)	<p>Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.</p>	<ul style="list-style-type: none"> - Security guard will be appointed to avoid traffic congestion near the entry and exit points. - Around 6712.32 Sq.m. area for 88 no. of cars parking spaces are provided.
(x)	<p>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 Ministry in three months time.</p>	<p>A report on the energy conservation measures has already been submitted.</p>
(xi)	<p>Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building</p>	<ul style="list-style-type: none"> - CFLs/TFLs for the lighting the areas outside the

NO.	CONDITIONS	COMPLIANCE STATUS
	should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.	<p>building will be installed as defined in ASHRAE/IESNA Standard 90.1-2004, Exterior Lighting Section, without amendments.</p> <ul style="list-style-type: none"> - Used CFLs and TFLs will be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. - Advance LED lights coupled with CFL will be used.
(xii)	Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.	Regular maintenance of STP is carried out to prevent odour problems.
(xiii)	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	- Only one building is being constructed.
(xiv)	Water segregation shall be carried-out at source and organic shall be composted. Adequate space shall be provided within the complex.	<ul style="list-style-type: none"> - Water will be segregated through dual plumbing line. - Organic waste is composted within site and used as manure for the plantation.

PART - B. GENERAL CONDITIONS:

NO.	CONDITIONS	COMPLIANCE STATUS
(i)	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 respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Six monthly compliance report along with monitored data is being submitted regularly to the concerned authorities being monitored by approved monitoring agency.
4.	Officials from the Regional Office of MOEF, Shillong 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. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional office of MOEF, Shillong.	<ul style="list-style-type: none"> - We ensure to provide full cooperation, facilities and documents/data required by the Officials from the Regional Office of MOEF, Shillong during their inspection. - A complete set of all the documents submitted to MoEF is forwarded to the CCF, Regional office of MOEF, Shillong.
5.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the Ministry.	Slight modification is envisaged, for that State

NO.	CONDITIONS	COMPLIANCE STATUS
		Expert Appraisal Committee, Meghalaya has already been approached.
6.	The Ministry 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.
7.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980, and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities	Statutory clearances like, - An approval for storage of diesel from Chief Controller of Explosives will be obtained if diesel stored at site. - Approval of Fire Department will be obtained before operation of the project. - Forest Conservation Act and Wildlife (Protection) Act is not applicable as it is not a forest land.
8.	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.
9.	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Assam Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Shillong.	- Public notice regarding Environmental clearance was published in the two local Newspapers widely circulated in the region i.e. "The Meghalaya Guardian" on dated 01/07/2011 and "U Peitngor" on dated 12/07/2011. - A copy of the clearance letter is forwarded to the Regional office of Ministry at Shillong.
10.	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.	Not Applicable.
11.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	- No suggestions/ representations were received from concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO.

NO.	CONDITIONS	COMPLIANCE STATUS
		<ul style="list-style-type: none"> - Clearance letter is placed on the company's website i.e. www.hmggroup.net.in.
12.	<p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<ul style="list-style-type: none"> - Status of compliance of the stipulated EC conditions, including results of monitored data is uploaded on our website i.e. www.hmggroup.net.in and being updated periodically. - Simultaneously it is being regularly sent to the Regional Office of MoEF at Shillong and the Meghalaya State Pollution Control Board. The latest report was submitted vide our letter no. MIREPL/104(A)/ 2281 dated 28.11.2015
13.	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of BC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.</p>	<p>Environmental Statement will be submitted to Meghalaya State Pollution Control Board after obtaining Consent to Operate after completion of the project.</p>

ANNEXURE I



EIA PROJECT, GAUHATI UNIVERSITY
DEPARTMENT OF CHEMISTRY
Guwahati 781014, Assam (INDIA)

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 9864031987(m)
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Professor K G Bhattacharyya, Ph.D.(London), DIC (Imperial College), Coordinator

Ref. Proj-ongoing/26/En-vision NE/Maxim Shillong/2015-16/W/04
 Date 09/04/2015

TEST REPORT for Water (150316_14080048_0 dt. 16/03/2015)

Name & Address of Client	Envision Enviro Technologies North East H/N-6, 1st Floor, Sankardev Path, Pub-Sarania Chandmari, Guwahati-781003, Assam, India		
Name of the project or Sample ID	M/S Maxim Infrastructure & Real Estate Pvt. Ltd. Shillong, Police Bazar, Near Vishal Mega Mart, Meghalaya.		
Description of sample	Water		
Date of Sampling	16/03/2015	Date of receipt of Sample	16/03/2015
Sample Collected by	M/S En-vision Enviro Technologies North East		

Sl. No.	Water Quality PARAMETERS	UNIT	RESULT	REFERENCE METHOD	DETECTION LIMIT	Acceptable limit	Permissible limit
1.	pH	--	6.80	Potentiometric	0.01	6.5-8.5	No relaxation
2.	Turbidity, Max	NTU	0.4	Nephelometric	0.1	1.0	5.0
3.	TDS, Max	mg/L	116.8	Dried at 185°C	0.1	500	2000
4.	Total hardness, Max	mg/L	62.8	EDTA Titrimetric	0.1	200	600
5.	Calcium, Max	mg/L	24.5	EDTA Titrimetric	0.1	75	200
6.	Magnesium, Max	mg/L	18.6	EDTA Titrimetric	0.1	30	100
7.	Total Alkalinity, Max	mg/L	77.8	Titrimetric	0.1	200	600

IS 10500 : 2012

8.	Chloride, Max	mg/L	19.55	Argentometric	0.05	250	1000
9.	Sulphate, Max	mg/L	8.24	Turbidimetric	0.05	200	400
10.	Nitrates, Max	mg/L	1.38	Spectrophotometric	0.01	45	No relaxation
11.	Fluoride, Max	mg/L	0.46	SPADNS Method	0.01	1.0	1.5
12.	Residual chlorine, Min	mg/L	BDL	Iodometric	0.1	0.2	1.0
13.	Copper, Max	mg/L	0.0228	Flame AAS	0.0001	0.05	1.5
14.	Iron (as Fe), Max	mg/L	0.3052	Flame AAS	0.0001	0.3	No relaxation
15.	Cadmium, Max	mg/L	BDL	Flame AAS	0.0001	0.003	No relaxation
16.	Lead, Max	mg/L	BDL	Flame AAS	0.0001	0.01	No relaxation
17.	Zinc, Max	mg/L	0.2405	Flame AAS	0.0001	5	15
18.	Chromium Total, Max	mg/L	0.0440	Flame AAS	0.0001	0.05	No relaxation
19.	Manganese, Max	mg/L	0.1080	Flame AAS	0.0001	0.1	0.3
20.	Selenium, Max	mg/L	0.0006	Flame AAS	0.0001	0.01	No relaxation
21.	DO	mg/L	5.1	Azide modification	0.1	--	--
22.	BOD	mg/L	8.3	3 Day incubation at 27°C	0.1	--	--
23.	COD	mg/L	28.4	Dichromate Reflux	0.1	--	--

TDS Total Dissolved Solids DO Dissolved Oxygen, BOD Biochemical Oxygen Demand, COD Chemical Oxygen demand
 All the measurement methods conform to IS 10500 : 2012 and World Health Organization (WHO) Guidelines.

For EIA Project, Gauhati University,


K G Bhattacharyya
 Coordinator

Coordinator
 EIA Project
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Ref. Proj-ongoing/26/En-vision NE/Maxim Shillong/2015-16/S/05
Date 09/04/2015

TEST REPORT for Soil (150316_14080048_0 dt. 16/03/2015)

Name & Address of Client	Envision Enviro Technologies North East H/N-6,1st Floor, Sankardev Path, Pub-Sarania, Chandmari Guwahati-781003,Assam,India		
Name of the project or Sample ID	M/S Maxim Infrastructure & Real Estate Pvt. Ltd. Shillong, Police Bazar, Near Vishal Mega Mart, Meghalaya.		
Description of sample	Soil collected from project site		
Date of Sampling	16/03/2015	Date of receipt of Sample	16/03/2015
Sample Collected by	M/S En-vision Enviro Technologies North East		

SN	PARAMETERS	UNIT	RESULT	METHOD	DETECTION LIMIT
1	pH	--	8.20	Potentiometric	0.01
2	Soil type	--	Loamy Sand	Hydrometer	--
	Sand	%	78.50	Hydrometer	0.01
	Clay	%	13.22	Hydrometer	0.01
	Silt	%	8.28	Hydrometer	0.01
3	Nitrogen	kg/ha	224.58	Alkaline KMHO ₄	0.05
4	Phosphorus	mg/kg	63.80	Olsen Method	0.05
5	Potassium	mg/kg	51.22	NH ₄ -acetate Extraction	0.01
6	EC	mS/cm	1.64	Conductivity Meter	0.01
7	WHC	%	36.54	Standard method	0.01
8	SOM	%	0.68	Titrimetric	0.01
9	Salinity	mS/cm	1.36	Conductometric	0.01
10	Iron	g/kg	26.48	Flame AAS	0.0001
11	Copper	mg/kg	19.22	Flame AAS	0.0001
12	Nickel	mg/kg	14.25	Flame AAS	0.0001
13	Manganese	mg/kg	186.5	Flame AAS	0.0001
14	Zinc	mg/kg	66.50	Flame AAS	0.0001
15	SAR	mol/kg	0.42	Computation	0.01
16	Chlorides	mg/kg	133.8	Argentometric	0.1

SAR Sodium Absorption ratio; WHC Water holding Capacity; SOM Soil Organic matter; EC Electrical Conductivity (both pH and EC for 1:5 soil-water suspension)

For EIA Project, Gauhati University,


K G Bhattacharyya
Coordinator

Coordinator
EIA Project
Gauhati University

ANNEXURE II

AMBIENT AIR ANALYSIS REPORT

Rep.No. 150403_14010008_01_657/191

Date:03/04/2015

Name & Address:

M/s. Maxim Infrastructure
& Real Estate (P) Ltd.,
Shillong Police Bazar,
Near Vishal Mega Mart,
Meghalaya.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO _x (µg/m ³)	SO ₂ (µg/m ³)
i)	31/03/15	Near Existing Electrical Transformer (South-West Direction)	Clear	66.3	34.9	11.2	7.5
ii)		Near Hotel Service Lift (north-east Direction)		68.1	35.2	13.4	8.8

Remarks: - Parameters are within the permissible limit.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air
			Industrial, Residential, Rural and Other Area
1	Sulphur Dioxide (SO ₂) µg/m ³	24 hours	80
2	Nitrogen Dioxide (NO ₂), µg/m ³	24 hours	80
3	Particulate Matter (PM ₁₀), µg/m ³	24 hours	100
4	Particulate Matter (PM _{2.5}), µg/m ³	24 hours	60

Envision Enviro Technologies North East, Guwahati



(Quality Control Manager)

Note: i) The results relate only to the parameters tested
ii) The test report shall not be reproduced except in full, without written approval of laboratory

Recognized by Pollution Control Board, Assam

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 150403_14010008_06A_658/191

Date: 03/04/2015

Name & Address:

M/s. Maxim Infrastructure & Real Estate (P) Ltd.,
Shillong Police Bazar,
Near Vishal Mega Mart,
Meghalaya.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	31/03/15	Near Existing Transformer (south-west direction)	45.8
ii)		Near Hotel Kitchen Lift (north-east direction)	47.2

Remarks: Noise level are carried out during day time.

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Envision Enviro Technologies North East, Guwahati.



(Quality Control Manager)

Note: i) The results relate only to the parameters tested
ii) The test report shall not be reproduced except in full, without written approval of laboratory