

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HARYANA
Bay No. 55-58, Prayatan Bhawan, Sector-2, PANCHKULA.

No. SEIAA/HR/2013/595

Dated: 04-09-2013

To

M/s Unitech Limited,
 Unitech House, South City-1,
 Gurgaon – 122 001, Haryana.

Subject: Environmental Clearance of “Nirvana Country – III” Residential Plotted cum Group Housing project at Sector- 70, Village- Badshahpur, Gurgaon, Haryana (under Category 8(b) project.

Dear Sir,

This letter is in reference to your application no. Nil dated 07-04-2012 addressed to M.S. SEIAA, Haryana received on 11-04-2012 and subsequent letters dated 14-06-2012, 25-06-2012 and 05-07-2013 seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, Form-1-A & Conceptual Plan, EIA/EMP on the basis of approved TOR and additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification 23.3.2012, in its meetings held on 30-05-2012, 19-07-2012, 10-10-2012 and 09-07-2013 awarded “Gold” grading to the project.

[2] It is inter-alia, noted that the project involves the Construction of plotted development colony at Sector- 70, Village- Badshahpur, Gurgaon, Haryana on a plot area of 407180.92 sqmt. The total built up area shall be 381846.34 sqmt. The plotted colony shall have 622 Nos. of residential plots, 156 nos. of EWS Plots. The Group housing shall have 612 Dwelling Units (Main Dwelling Units 520 + 92 EWS/Servant Units). The Group housing project shall have 26 No. of Blocks having 3 Basements + GF + maximum 13 floors and 1 EWS Block having 3 Basements + GF + 3 floors. The maximum height of the building shall be 43.20 meters and NOC from AAI has been obtained. The project proponent has also proposed to provide 2 Primary Schools, 2 Nursery Schools, 2 Nursing Homes, Taxi Stand, Milk & Vegetable Booth, Clinic, ATM, Multipurpose Booth, Beauty Parlor etc in the project area. The total water requirement shall be 2715 KLD. The fresh water requirement shall be 1282 KLD. The waste water generation shall be 1573 KLD, which will be treated in the STPs of 440 KLD, 75 KLD, 965 KLD and 460 KLD capacities leading to zero exit discharge. The total power requirement shall be 11567 KVA which will be supplied by DHBVN. The Project Proponent has proposed to develop green belt on 34% of project area (20% tree

plantation + 14% landscaping). The solid waste generation will be 6213 kg/day. The project proponent has proposed to develop 98 RWH pits. The 4349 kg/day of bio-degradable waste will be treated in the project area by adopting appropriate technology. The total parking spaces proposed are 939 ECS for commercial area.

[3] The State Expert Appraisal Committee, Haryana after due consideration of the relevant documents submitted by the project proponent and additional clarification furnished in response to its observations have recommended the grant of environmental clearance for the project mentioned above, subject to compliance with the stipulated conditions. Accordingly, the State Environment Impact Assessment Authority in its meeting held on 05-08-2013 decided to agree with the recommendations of SEAC to accord necessary environmental clearance for the project under Category 8(b) of EIA Notification 2006 subject to the strict compliance with the specific and general conditions mentioned below:-

PART A-

SPECIFIC CONDITIONS:-

Construction Phase:-

- [1] "Consent for Establish" shall be obtained from Haryana State Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA, Haryana.
- [2] A first aid room as proposed in the project report shall be provided both during construction and operational phase of the project.
- [3] Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by the labourers is strictly prohibited. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.
- [4] All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- [5] The project proponent shall ensure that the building material required during construction phase is properly stored within the project area and disposal of construction waste should not create any adverse effect on the neighboring communities and should be disposed of after taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- [6] 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 and any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the Haryana State Pollution Control Board.

- [7] The diesel generator sets to be used during construction phase should be of ultra low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- [8] 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.
- [9] Ambient noise levels should conform to the 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 taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated residential standards.
- [10] Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and as amended on 27th August 2003.
- [11] Storm water control and its re-use as per CGWB and BIS standards for various applications should be ensured.
- [12] Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.
- [13] In view of the severe constraints in water supply augmentation in the region and sustainability of water resources, the developer will submit the NOC from CGWA specifying water extraction quantities and assurance from HUDA/ utility provider indicating source of water supply and quantity of water with details of intended use of water – potable and non-potable. Assurance is required for both construction and operation stages separately. It shall be submitted to the SEIAA and RO, MOEF, Chandigarh before the start of construction.
- [14] Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material.
- [15] 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 desirable for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
- [16] The approval of the competent authority shall be obtained for structural safety of the building on account of earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc. If any forest land is involved in the proposed site, clearance under Forest Conservation Act shall be obtained from the competent Authority.
- [17] Overexploited groundwater and impending severe shortage of water supply in the region requires the developer to redraw the water and energy conservation plan. Developer shall reduce the overall footprint of the proposed development. Project proponent shall incorporate water efficiency /savings measures as well as water

reuse/recycling within 3 months and before start of construction to the SEIAA, Haryana and RO, MOEF, GOI, Chandigarh.

- [18] The Project Proponent shall construct 98 rain water harvesting pits for recharging the ground water within the project premises. Rain water harvesting pits shall be designed to make provisions for silting chamber and removal of floating matter before entering harvesting pit. Maintenance budget and persons responsible for maintenance must be provided. Care shall also be taken that contaminated water do not enter any RWH pit.
- [19] The project proponent shall provide for adequate fire safety measures and equipments as required by Haryana Fire Service Act, 2009 and instructions issued by the local Authority/Directorate of fire from time to time. Further the project proponent shall take necessary permission regarding fire safety scheme/NOC from competent Authority as required.
- [20] The Project Proponent shall seek assurance from the DHBVN for supply of 11567 KVA of power supply as stated in the proposal In no case project will be operational solely on generators without any power supply from any external power utility.
- [21] Detail calculation of power load and ultimate power load of the project shall be submitted to DHBVN under intimation to SEIAA Haryana before the start of construction. Provisions shall be made for electrical infrastructure in the project area.
- [22] The Project Proponent shall not raise any construction in the natural land depression / Nallah/water course and shall ensure that the natural flow from the Nallah/water course is not obstructed.
- [23] The Project Proponent shall keep the plinth level of the building blocks sufficiently above the level of the approach road to the Project as per prescribed by-laws. Levels of the other areas in the Projects shall also be kept suitably so as to avoid flooding.
- [24] Construction shall be carried out so that density of population does not exceed norms approved by Director General Town and Country Department Haryana.
- [25] The Project Proponent shall submit an affidavit with the declaration that ground water will not be used for construction and only treated water should be used for construction.
- [26] The project proponent shall not cut any existing tree and project landscaping plan should be modified to include those trees in green area.
- [27] The project proponent shall ensure that ECBC norms for composite climate zone are met. In particular building envelope, HVAC service, water heating, pumping, lighting and electrical infrastructure must meet ECBC norms.

- [28] The project proponent shall provide 3 meter high barricade around the project area, dust screen for every floor above the ground, proper sprinkling and covering of stored material to restrict dust and air pollution during construction.
- [29] The project proponent shall construct a sedimentation basin in the lower level of the project site to trap pollutant and other wastes during rains.
- [30] The project proponent shall provide proper Rasta of proper width and proper strength for each project before the start of construction.
- [31] The project proponent shall ensure that the U-value of the glass is less than 3.177 and maximum solar heat gain co-efficient is 0.25 for vertical fenestration.
- [32] The project proponent shall adequately control construction dusts like silica dust, non-silica dust, wood dust. Such dusts shall not spread outside project premises. Project Proponent shall provide respiratory protective equipment to all construction workers.
- [33] The project proponent shall ensure that no construction activity is undertaken on surface of revenue rasta passing through the project area.
- [34] The project proponent shall indicate the width and length of revenue rasta passing through the project area on sign board and shall display the same at both the ends of revenue rasta stretch, for awareness of public. Sign board shall also display the message that this is public rasta/road and any citizen can use it. There shall not be any gate with or without guards on revenue rasta and passage through the revenue rasta shall remain fully unobstructed.
- [35] The project proponent shall develop complete civic infrastructure of the Group Housing colony including internal roads, green belt development, sewerage line, Rain Water recharge arrangements, Storm water drainage system, Solid waste management site and provision for composting of bio-degradable waste, STP, water supply line, dual plumbing line, electric supply lines etc. and shall offer possession of the units/flats thereafter.
- [36] The project proponent shall not raise any construction activity in the ROW reserved/acquired for High Tension Wire passing through the project area and shall maintain horizontal and vertical ROW as required under Indian Electricity Rules, 1956/DHBNVN latest instructions.
- [37] The project proponent shall provide one refuse area till 24 meter and one till 39 meter as per National Building Code.
- [38] The project proponent shall provide fire control room and fire officer for building above 30 meter as per National Building Code.
- [39] The project proponent shall obtain permission of Mines and Geology Department for excavation of soil before the start of construction.

- [40] The project proponent shall seek permission of Revenue Authorities for widening of existing revenue rasta passing through the project area.
- [41] The project proponent shall seek specific prior approval from concerned local Authority/HUDA regarding provision of storm drainage and sewerage system including their integration with external services of HUDA/ Local authorities beside other required services before taking up any construction activity.
- [42] The site for solid waste management plant be earmarked on the layout plan and the detailed project for setting up the solid waste management plant shall be submitted to the Authority within one month.

Operational Phase:

- [a] "Consent to Operate" shall be obtained from Haryana State Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA, Haryana.
- [b] The Sewage Treatment Plant (STP) shall be installed for the treatment of the sewage to the prescribed standards including odour and treated effluent shall be recycled. The installation of STP should be certified by an independent expert and a report in this regard should be submitted to the SEIAA, Haryana before the project is commissioned for operation. Tertiary treatment of waste water is mandatory. Discharge of treated sewage shall conform to the norms and standards of HSPCB, Panchkula. Project Proponent shall implement such STP technology which does not require filter backwash.
- [c] Separation of the grey and black water should be done by the use of dual plumbing line. Treatment of 100% grey water by decentralized treatment should be done ensuring that the re-circulated water should have BOD level less than 10 mg/litre and the recycled water will be used for flushing, gardening and DG set cooling etc. to achieve zero exit discharge.
- [d] For disinfection of the treated wastewater ultra-violet radiation or ozonization process should be used.
- [e] The solid waste generated should be properly collected and segregated. Bio-degradable waste shall be decomposed at site and dry/ inert solid waste should be disposed off to approved sites for land filling after recovering recyclable material.
- [f] Diesel power generating sets proposed as source of back-up power for lifts, common area illumination and for domestic use should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The location of the DG sets should be in the basement as promised by the project proponent with appropriate stack height i.e. above the roof level as per the CPCB norms. The diesel used for DG sets should be ultra low sulphur diesel (0.05% sulphur), instead of low sulphur diesel.

- [g] Ambient Noise level should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the Proposed Residential Complex.
- [h] The project proponent should maintain at least 34% as green cover area for tree plantation especially all around the periphery of the project and on the road sides preferably with local species which can provide protection against noise and suspended particulates matter. The open spaces inside the project should be preferably landscaped and covered with vegetation/grass, herbs & shrubs. Only locally available plant species shall be used.
- [i] The project proponent shall strive to minimize water in irrigation of landscape by minimizing grass area, using native variety, xeriscaping and mulching, utilizing efficient irrigation system, scheduling irrigation only after checking evapo-transpiration data.
- [j] Rain water harvesting for roof run-off and surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre- treatment through sedimentation tanks must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging shall be kept at least 5 mts. above the highest ground water table. Care shall be taken that contaminated water do not enter any RWH pit. The project proponent shall avoid Rain Water Harvesting of first 10 minutes of rain fall. Roof top of the building shall be without any toxic material or paint which can contaminate rain water. Wire mesh and filters should be used wherever required.
- [k] The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- [l] There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized and no public space should be utilized.
- [m] A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submitted to the SEIAA, Haryana in three months time.
- [n] Energy conservation measures like installation of LED for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use of solar panels must be adapted to the maximum energy conservation.
- [o] The Project Proponent shall use zero ozone depleting potential material in insulation, refrigeration, air-conditioning and adhesive. Project Proponent shall also provide halon free fire suppression system.

- [p] The solid waste generated should be properly collected and segregated as per the requirement of the MSW Rules, 2000 and as amended from time to time. The bio-degradable waste should be treated by appropriate technology at the site ear-marked within the project area and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- [q] The provision of the solar water heating system shall be as per norms specified by HAREDA and shall be made operational in each building block.
- [r] The traffic plan and the parking plan proposed by the PP should be adhered to meticulously with further scope of additional parking for future requirement. There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized and no public space should be used.
- [s] The Project shall be operationalized only when HUDA/local authority will provide domestic water supply system in the area.
- [t] Operation and maintenance of STP, solid waste management and electrical Infrastructure, pollution control measures shall be ensured even after the completion of sale.
- [u] Different type of wastes should be disposed off as per provisions of municipal solid waste, biomedical waste, hazardous waste, e-waste, batteries & plastic rules made under Environment Protection Act, 1986. Particularly E-waste and Battery waste shall be disposed of as per existing E-waste Management Rules 2011 and Batteries Management Rules 2001. The project proponent should maintain a collection center for E-waste and it should be disposed of to only registered and authorized dismantler / recycler.
- [v] Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied with.
- [w] Water supply shall be metered among different users of utilities.
- [x] The project proponent shall ensure that the stack height of DG sets is as per the CPCB guide lines and also ensure that the emission standards of noise and air are within the CPCB prescribed limits. Noise and Emission level of DG sets greater than 800 KVA shall be as per CPCB latest standards for high capacity DG sets.
- [y] All electric supply exceeding 100 amp, 3 phase shall maintain the power factor between 0.98 lag to 1 at the point of connection.
- [z] The project proponent shall use only treated water instead of fresh water for DG cooling. The Project Proponent shall also use evaporative cooling technology and double stage cooling system for HVAC in order to reduce water consumption. Further temperature, relative humidity during summer and winter seasons should be kept at optimal level. Variable speed drive, best Co-efficient of Performance, as well as optimal integrated point load value and minimum outside fresh air supply

may be resorted for conservation of power and water. Coil type cooling DG Sets shall be used for saving cooling water consumption for water cooled DG Sets.

- [aa] The project proponent shall ensure that the transformer is constructed with high quality grain oriented, low loss silicon steel and virgin electrolyte grade copper. The project proponent shall obtain manufacturer's certificate also for that.
- [ab] The project proponent shall ensure that exit velocity from the stack should be sufficiently high. Stack shall be designed in such a way that there is no stack down-water under any meteorological conditions.
- [ac] The project proponent shall provide water sprinkling system in the project area to suppress the dust in addition to the already suggested mitigation measures in the Air Environment Chapter of EMP.

PART-B. GENERAL CONDITIONS:

- [i] The Project Proponent shall ensure the commitments made in Form-1, Form-1A, EIA/EMP and other documents submitted to the SEIAA for the protection of environment and proposed environmental safeguards are complied with in letter and spirit. In case of contradiction between two or more documents on any point, the most environmentally friendly commitment on the point shall be taken as commitment by project proponent.
- [ii] Six monthly compliance reports should be submitted to the HSPCB and Regional Office, MOEF, GOI, Northern Region, Chandigarh and a copy to the SEIAA, Haryana.
- [iii] STP outlet after stabilization and stack emission shall be monitored monthly. Other environmental parameters and green belt shall be monitored on quarterly basis. After every 3 (three) months, the project proponent shall conduct environmental audit and shall take corrective measure, if required, without delay.
- [iv] The SEIAA, Haryana reserves the right to add additional safeguard measures subsequently, if found necessary. Environmental Clearance granted will be revoked if it is found that false information has been given for getting approval of this project. SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF.
- [v] The Project proponent shall not violate any judicial orders/pronouncements issued by any Court/Tribunal.
- [vi] 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, Forest Act, 1927, PLPA 1900, etc. shall be obtained, as applicable by project proponents from the respective authorities prior to construction of the project.
- [vii] The Project proponent should inform the public that the project has been accorded Environment Clearance by the SEIAA and copies of the clearance letter are available with the Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A copy of Environment Clearance conditions shall also be put on project proponent's web site for public awareness.
- [viii] 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 before obtaining prior Environmental Clearance.

- [ix] Any appeal against the this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- [x] The project proponent shall put in place Corporate Environment Policy as mentioned in MOEF, GOI OM No. J-11013/41/2006-IA II (I) dated 26.4.2012 within 3 months period. Latest Corporate Environment Policy should be submitted to SEIAA within 3 months of issuance of this letter.
- [xi] The fund ear-marked for environment protection measures should be kept in separate account and should not be diverted for other purposes and year wise expenditure shall be reported to the SEIAA/RO MOEF GOI under rules prescribed for Environment.Audit.
- [xii] The project proponent shall ensure the compliance of Forest Department, Haryana Notification no. S.O.121/PA2/1900/S.4/97 dated 28.11.1997.
- [xiii] The Project Proponent shall ensure that no vehicle during construction/operation phase enter the project premises without valid 'Pollution Under Control' certificate from competent Authority.
- [xiv] The project proponent is responsible for compliance of all conditions in Environmental Clearance letter and project proponent can not absolve himself /herself of the responsibility by shifting it to any contractor engaged by project proponent.
- [xv] The project proponent shall seek fresh Environmental clearance if at any stage there is change in the planning of the proposed project.



Member Secretary,
State Level Environment Impact
Assessment Authority, Haryana, Panchkula.



Endst. No. SEIAA/HR/2013

Dated:.....

A copy of the above is forwarded to the following:

1. The Additional Director (IA Division), MOEF, GOI, CGO Complex, Lodhi Road, New Delhi.
2. The Regional office, Ministry of Environment & Forests, Govt. of India, Sector 31, Chandigarh.
3. The Chairman, Haryana State Pollution Control Board, Pkl.

Member Secretary,
State Level Environment Impact
Assessment Authority, Haryana, Panchkula

Ref: UL/NirvanaCountry-III/3005/2016

Date: 30.05.2016

**To,
The Director(S)
Northern Regional Office,
Ministry of Environment & Forests
Bays No.24-25, Sector-31-A
Dakshin Marg, Chandigarh – 160030**

**The Member Secretary,
State Environment Impact Assessment Authority (SEIAA), Haryana
Bays No.- 55-58, Prayatan Bhavan, Sector-2
Panchkula-134109
Haryana**

**The Chairman,
Haryana State Pollution Control Board,
C-11, Sector – 6, Panchkula,
Chandigarh-134109
Haryana**

Subject: Submission of 6th Six Monthly EC Compliance report (along with soft copy in CD) for monitoring of implementation status of Conditions laid down in Environmental Clearance letter issued by SEIAA, Haryana for “Nirvana Country-III” Residential Plotted cum Group Housing Project at Sector-70, Village-Badshahpur, Gurgaon. Haryana by M/s Unitech Ltd.

Ref: EC letter No. SEIAA/HR/2013/595 dated 04.09.2013 received on 09.09.2013

Respected Sir,

With reference to the above mentioned subject we are pleased to inform you that we are submitting the 6th Six-Monthly EC compliance report for the said project which includes the point wise reply to the conditions mentioned in the above said EC letter along with the relevant annexure.

Hope, you will find the information in order and it will meet your expectations to assess the implementation status of environmental safeguard measures for the project. This is for your kind information and necessary office records.

Thanking you in anticipation,

Yours faithfully,
For Unitech Ltd

Authorized Signatory

Encl: EC Compliance report with relevant Annexure (with soft Copy in CD)

“Nirvana Country-III”

**Residential Plotted cum Group Housing
Project**

**6th SIX MONTHLY ENVIRONMENTAL
COMPLIANCE REPORT**

October 2015 to March 2016

Developed by M/s Unitech Ltd

**Compliance report against Environmental Clearance from SEIAA for
“Nirvana Country-III” Residential Plotted cum Group Housing
project at Sector-70, Village-Badshahpur, District- Gurgaon, Haryana
by M/s Unitech Limited.**

S.no	Compliance conditions	Compliance status
		Remarks
PART A - SPECIFIC CONDITIONS		
I	CONSTRUCTION PHASE	
1.	“Consent for Establish” shall be obtained from Haryana State Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA, Haryana.	There is no construction work going on at the project site it is yet to be started. The Project Proponent (PP) had already applied for “Consent to Establish” (NOC) to Haryana State Pollution Control Board for the said project vide letter no. UL/NOC/HSPCB/0101/2013 dated 01.01.2013 ; Subsequently the PP received the EC letter of the project. Accordingly, the PP has already submitted the EC letter to HSPCB vide letter no.UL/HSPCB/TAC(HQ)09092013 dated 09.09.2013 for processing of NOC application. PP will submit the NOC to SEIAA, Haryana when it is received from HSPCB. Details submitted as Annexure-V of the initial compliance report.
2.	A First Aid Room as proposed in the project report shall be provided both during construction and operational phase of the project.	Adequate first Aid facilities will be ensured at the project site both during construction and operational phase of the project.
3.	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by the laborers is strictly prohibited. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	Adequate facilities in regard to drinking water, sanitation and solid waste management will be provided at the project site. Open defecation by the laborers will be strictly prohibited.
4.	All the top soil excavated during construction must be stored for use in horticulture/landscape development within the project site.	Yes, the fertile top soil excavated during the construction will be stored and be used later for horticulture/landscape development within the project site.
5.	The project proponent shall ensure that the building material required during construction phase is properly stored within the project area and disposal of construction waste should not create any adverse effect on the neighboring	The excavated fertile top soil will be stored for future landscaping and most of the excavated material will be reused for backfilling. The site safety and health aspects measures will be implemented as per our Standard Operation Plan for Environment & Health enclosed as

	communities and should be disposed off after taking necessary precautions for general safety and health aspects of people only in approved sites with the approval of competent authority.	Annexure-VI of the initial compliance report.
6.	Construction spoils including bituminous material must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the groundwater and any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the Haryana State Pollution Control Board.	As such no hazardous/ bituminous material will be used in construction activity. All possible precautions will be taken to prevent contamination of groundwater/leaching if any.
7.	The diesel generator sets to be used during the construction phase should be of ultra low sulphur diesel type and should conform to E(P) Rules prescribed for air and noise emission standards.	D.G. sets used in the construction phase will be as per Environment (Protection) Rules for air and Noise emission standard. HSD/ market available diesel shall be used in D.G. sets. The D.G. sets will be operated only during power failure periodically for construction activities on need basis and will be used during daytime only as the construction activities at the project site will take place mainly during day time. Regular six monthly monitoring of Ambient air quality and noise will be carried out by MoEF&CC approved Lab where directly/ indirectly we will monitor the D.G. sets with respect to pollution. The environmental monitoring reports are enclosed as Annexure I .
8.	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.	All the required clearance will be taken from Chief Controller of Explosives for the project and submitted to your office for your necessary records.
9.	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 taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated residential standards.	Available best construction practices will be followed to take care of the Environment. Regular six monthly monitoring of Ambient air quality and noise will be carried out by MoEF approved Lab and submitted to your office with our next EC compliance report for your necessary records.
10.	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	Yes, PP will use Fly ash as building construction material; Fly ash mixed cement will be used.

	August, 2003.	
11.	Storm water control and its re-use as per CGWB and BIS standards for various applications should be ensured.	Storm water control and its re-use will be as per CGWB and BIS standards.
12.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.	Yes, pre-mixed concrete will be used to reduce the water demand during the construction phase of the project.
13.	In view of the severe constraints in water supply augmentation in the region and sustainability of water resources, the developer will submit the NOC from CGWA specifying water extraction quantities and assurance from HUDA/utility provider indicating source of water supply and quantity of water with details of intended use of water-potable and non potable. Assurance is required for both construction and operation stages separately. It shall be submitted to the SEIAA and RO, MoEF, Chandigarh before the start of construction.	<p>The proposed project site is located in the sector-70 of HUDA. As per their assurance letters they will provide water for our project in operation phase.</p> <p>We also have an agreement with water tanker supplier for providing water for our project from safe zone outside Gurgaon. A copy of the said agreement attached as Annexure-VIII of the initial compliance report.</p> <p>For carrying out the construction activities at the project site we will use STP treated water (after treatment so that it is fit for being used in construction activities and conforms to the Indian standard for Plain and Reinforced Concrete- Code of Practice (Fourth Revision)- IS 456:2000) for carrying out construction activities at the project site. This STP treated water will be procured from our other operational projects as well as purchased from HUDA STP as per requirement. The details attached as Annexure-VIII of the initial compliance report.</p>
14.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material.	All the roofs will be designed as per ECBC norms and will be insulated to minimize heat gain.
15.	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 desirable for non air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	The said project is plotted cum Group housing development project which will be developing as per the Energy Conservation Building code as far as applicable and technically feasible of compliance.
16.	The approval of the competent authority shall be obtained for structural safety of the building on account of earthquake, adequacy of firefighting equipment etc. as per National Building code including protection measures from lightening etc. If any forest land is involved in the proposed site, clearance under Forest Conservation Act shall be obtained from the competent Authority	<p>Yes, the project will be developed as per NBC norms. Certificate for structural safety of the project is enclosed as Annexure-XVII of the initial EC Compliance Report.</p> <p>The said project doesn't fall under forest land. PP has already obtained the NOC against Aravali Notification, 1992 and PLPA 1900 and Forest NOC from The Deputy Commissioner (DC), Gurgaon. Enclosed as Annexure-III of the initial EC Compliance Report.</p>
17.	Overexploited groundwater and	The planning of the project has been done

	impending severe shortage of water supply in the region requires the developer to redraw the water and energy conservation plan. Developer shall reduce the overall footprint of the proposed development. Project proponent shall incorporate water efficiency/ savings measures as well as water reuse/recycling within 3 months and before start of construction to the SEIAA, Haryana and R.O., MoEF, GOI, Chandigarh.	keeping in mind the measures for water efficiency/ saving savings as well as water reuse/recycling will be adopted on the completion of the project like the treated water from STP shall be reused for flushing, cooling, gardening and misc. purposes.
18.	The project proponent shall construct 98 nos. of rain water harvesting for recharging the ground water within the project premises. Rain water harvesting pits shall be designed to make provisions for silting chamber and removal of floating matter before entering harvesting pit. Maintenance budget and persons responsible for maintenance shall be provided. Care shall also be taken that contaminated water do not enter any RWH pit.	In the Group Housing 24 RWH pits will be provided. In the plotted development the rainwater harvesting pits will be provided as per Town & Country Planning Department Notification No. 10093 dated 11 th April, 2007 i.e. one pit is provided for each plot having roof area more than 100 sq. m. and apart from this 4 more RWH pits are proposed. Desilting tanks will be provided to remove silt and other floating impurities from rainwater before the water enters the harvesting pit. Proper maintenance shall be provided for the smooth working of the rain water harvesting pits and all necessary precautions shall be undertaken so that contaminated water does not enter any RWH pit. The schematic diagram for RWH pit is enclosed as Annexure-II .
19.	The project proponent shall provide for adequate fire safety measures and equipments as required by Haryana Fire Service Act, 2009 and instructions issued by the local Authority/ Directorate of fire from time to time. Further the project proponent shall take necessary permission regarding fire safety scheme/ NOC from competent authority as required.	We shall follow the relevant codes as per National Building Code (NBC), 2005 Vol-IV for fire safety. PP already applied for Fire NOC of the project to the Commissioner, Municipal Corporation Gurgaon (MCG) as per fire & safety guidelines for providing NOC from our nearest fire station. The application covering letter with receiving for the same is submitted as Annexure-X of the initial EC Compliance Report.
20.	The Project Proponent shall submit assurance from DHBVN for supply of 11567 KVA of power supply as stated in the proposal. In no case project will be operational solely on generators without any power supply from any external power utility.	The assurance letter from DHBVN enclosed as Annexure-XI of the initial EC Compliance Report.
21.	Detail calculation of power load and ultimate power load of the project shall be submitted to DHBVN under intimation to SEIAA, Haryana before the start of	We have already submitted the detailed calculation of power load and ultimate power load of the project to DHBVN. Please find attached the receiving of the same enclosed as

	construction. Provisions shall be made for electrical infrastructure in the project area.	Annexure-XII of the initial EC Compliance Report. Yes, provisions shall be made for electrical infrastructure in the project area.
22.	The Project Proponent shall not raise any construction in the natural land depression/Nallah/water course and shall ensure that the natural flow from the Nallah/water course is not obstructed.	There is no Nallah/water course existing in our project area.
23.	The project proponent shall keep the plinth level of the building blocks sufficiently above the level of the approach road to the Project as per prescribed by-laws. Levels of the other areas in the Project shall also be kept suitably so as to avoid flooding.	PP shall comply with the said condition. Properly designed drainage system for domestic as well as storm water shall be provided to prevent Flooding.
24.	Construction shall be carried out so that density of population does not exceed norms approved by Director General Town and Country Department Haryana	Yes, the density of will not exceed norms approved by Director General Town and Country Department Haryana.
25.	The project Proponent shall submit an affidavit with the declaration that groundwater will not be used for construction and only treated water would be used for construction.	Yes, PP shall only use STP treated water for construction and groundwater shall not be utilized for construction activities. Please find enclosed herewith the copy of already submitted affidavit in this regard attached as Annexure-XIII of the initial EC Compliance Report.
26.	The project proponent shall not cut any existing tree and project landscaping plan should be modified to include those trees in green area.	The existing trees have been incorporated in the planning of Landscape area.
27.	The project proponent shall ensure that ECBC norms for composite climate zone are met. In particular building envelope, HVAC service, water heating, pumping, lighting and electrical infrastructure must meet ECBC norms.	<p>The following energy conservation measures are proposed for the project on completion:</p> <p><u>Energy Conservation Measures for Electrical & Lighting</u></p> <ul style="list-style-type: none"> • Use of Energy Efficient Lighting i.e. T-5 lamps, CFL & LED • Use of energy efficient motors • Transformers & motors used shall be having efficiencies as per ECBC norms. <p><u>Energy Saving Measures for D.G. Cooling & Basement Ventilation</u></p> <ul style="list-style-type: none"> • Use of Fiber Reinforced Plastic (FRP) hollow blades in place of metallic blades. FRP hollow blades help to save 20%-30% of energy as they are light in weight. • Basement car park exhaust system to be equipped with CO (Carbon Monoxide) sensors so that exhaust fans can operate as per the CO levels. <p><u>Energy Saving Measures Plumbing</u></p>

		<ul style="list-style-type: none"> • Energy efficient motors for water pumps as per ECBC. • Energy efficient pumps to reduce the friction losses hence less power consumed. • Use of low flow rate pumps • Use of solar water heater.
28.	The project proponent shall provide 3 meter high barricade around the project area, dust screen for every floor above the ground, proper sprinkling and covering of stored material to restrict dust and air pollution during construction.	<p>To restrict dust and air pollution during construction the following measures will be undertaken:</p> <ul style="list-style-type: none"> • All the loose material either stacked or transported shall be provided with suitable covering; • Water sprinkling shall be done at the location where dust generation is anticipated; • Proper mask will be provided to workers who will be engaged in dust generation activities;
29.	The project proponent shall construct a sedimentation basin in the lower level of the project site to trap pollutant and other wastes during rains.	Yes, PP will construct the necessary sedimentation basin in the project area if required for trapping project site pollutant and other wastes during rainy season.
30.	The project proponent shall provide proper Rasta of proper width and proper strength for each project before the start of construction.	Appropriate road is already available for in & out movement of construction materials and construction related vehicles.
31.	The project proponent shall ensure that the U-value of the glass is less than 3.177 and maximum solar heat gain co-efficient is 0.25 for vertical fenestration.	Yes, PP will comply with said condition.
32.	The project proponent shall adequately control construction dusts like silica dust, non silica dust, wood dust. Such dusts shall not spread outside project premises. Project Proponent shall provide respiratory protective equipment to all construction workers.	<p>To minimize the impact of the dust generated during construction activities the following measures will be adopted:</p> <ul style="list-style-type: none"> • All the loose material either stacked or transported shall be provided with suitable covering; • Water sprinkling shall be done at the location where dust generation is anticipated; • Proper masks shall be provided to workers who will be engaged in dust generation activity;
33.	The project proponent shall ensure that no construction activity is undertaken on the surface of revenue rasta passing through the project area.	Yes, construction activity will not be undertaken on the surface of revenue rasta passing through the project area
34.	The project proponent shall indicate the	Yes, the EC condition will be followed in the

	width and length of the revenue rasta passing through the project area on sign board and shall display the same at both ends of revenue rasta stretch, for awareness of public. Sign board shall also display the message that this is public rasta/road and any citizen can use it. There shall not be any gate with or without guards on revenue rasta and passage through the revenue rasta shall remain fully unobstructed.	operational phase.
35.	The project proponent shall develop complete infrastructure of the Group Housing colony including internal roads, green belt development, sewerage line, rain water harvesting recharge arrangements, storm water drainage system, Solid waste management site and provision for composting of biodegradable waste, STP, water supply line, dual plumbing line, electric supply lines, etc. and shall offer possession of the units/flats thereafter.	Yes, we shall comply with the stipulated condition.
36.	The project proponent shall not raise any construction activity in the ROW reserved/acquired for High Tension Wire passing through the project area and shall maintain horizontal and vertical ROW as required under Indian Electricity Rules 1956/ DHBVN latest instructions.	We shall follow the existing guidelines in this regard. Accordingly our layout plan has been approved and the construction activities will be carried out according to the approved layout plan.
37.	The project proponent shall provide one refuse area till 24 meter and one till 39 meter as per National Building Code	PP will follow all the necessary & relevant provisions of the National Building Code for the proposed residential building. Accordingly PP shall take the Fire scheme Approval during construction and after completion of the project before operation as per the existing above mentioned fire & safety guidelines from the competent authority.
38.	The project proponent shall provide fire control room and fire officer for building above 30 meter as per National Building Code.	The PP shall follow the relevant codes as per National Building Code (NBC), 2005 Vol-IV for fire safety.
39.	The project proponent shall obtain permission of Mines and Geology department for excavation of soil before the start of construction.	The project is still in planning stage and before starting the construction activities PP shall obtain permission of Mines and Geology department for excavation of soil and submit the same to your office.
40.	The project proponent shall seek permission of Revenue authorities for widening of existing revenue rasta	If widening of the existing revenue raasta is required then PP will take the necessary approval/communication from the concerned

	passing through the project area.	authority.
41.	The project proponent shall seek specific prior approval from concerned local Authority/ HUDA regarding provision of Storm drainage and sewerage system including their integration with external services of HUDA/ Local authorities beside other required services before taking up any construction activity.	PP shall take approval of Building Plans from DTCP for the project in which the service plan approval for the project will be taken.
42.	The site for solid waste management plant be earmarked on the layout plan and the detailed project for setting up the solid waste management plant shall be submitted to the authority within one month.	The site for solid waste management plant is earmarked on the layout plan. Please refer Annexure-XVI of initial EC Compliance Report.
II	OPERATIONAL PHASE	
[a]	Consent to operate shall be obtained from Haryana State Pollution Control Board under Air and Water Act and copy shall be submitted to SEIAA, Haryana.	Yes, After the completion of the construction activities of the project PP will go for the consent to operate form the Haryana State Pollution Control Board for the commissioning of the project.
[b]	The sewage treatment plant (STP) shall be installed for the treatment of sewage to the prescribed standards including odour and treated effluent will be recycled. The installation of STP should be certified by an independent expert and report in this regard should be submitted to SEIAA, Haryana before the project is commissioned for operation. Tertiary treatment of waste water is mandatory. Discharge of treated sewage shall conform to the norms and standards HSPCB. Panchkula. Project proponent shall implement such STP technology which does not require filter backwash.	The total water requirement for the project is 2715 KLD of which fresh water requirement is 1282 KLD, total waste water discharge will be 1573 KLD which will be treated through 4 STPs of adequate capacities i.e. 440 KLD, 75 KLD, 965 KLD and 460 KLD respectively. The treated water approx 1433 KLD generated from the STP will be further recycled in flushing, cooling, horticulture and in construction activities of our other projects. After the installation of the STP we will submit structural & Operational design with tertiary treatment facility to your office certified through independent expert.
[c]	Separation of grey and black water should be done by the use of dual plumbing line. Treatment of 100% grey water by decentralized treatment should be done ensuring that the re-circulated water should have BOD level less than 10 mg/litre and the recycled water will be used for flushing, gardening and DG set cooling etc. to achieve zero exit discharge.	Dual plumbing line system for separation of grey water and black water shall be provided. All the waste water generated from the project will be further treated through the adequate capacity STP of SAFF technology plant and utilized for recirculation in flushing, gardening and DG cooling with maintaining less BOD (< 10 mg/l) level.
[d]	For disinfection of the treated waste water ultra violet radiation or ozonization process should be used.	For disinfection of the treated waste water ultra violet radiation or ozonization will be used as per requirement of the project.
[e]	The solid waste generated should be properly collected and segregated.	The solid waste generated from the project operation will be collected and taken to

	Biodegradable waste shall decomposed at site and dry/inert solid waste should be dispose off to approved sites for land filling after recovering recyclable material.	centralised locations within the project area from where it will be handed over to authorised vendor of MCG/HSPCB/MoEF for segregation, treatment and disposal at HSPCB approved landfill site. Used oil generated from the D.G sets will be stored in HDPE Containers and will be given to approved vendor of CPCB/HSPCB as per hazardous waste (Management, Handling & transboundry Movement) Rules,2008, amended till date
[f]	Diesel Power generating sets proposed as source of backup power for lifts, common area illumination and for domestic use should be enclosed type and conform to rules made under environment (protection) act 1986. The location of the DG set should be in basement as promised by the project proponent with appropriate stack height above the roof level as per the CPCB norms. The diesel used for DG sets should be ultra low sulphur diesel (0.05%) instead of low sulphur diesel.	DG set location will be provided in, acoustic enclosure/room and adequate stack height as per CPCB norms and for Air pollution prevention will use HSD/ market available diesel. The D.G. sets proposed for the project will to rules made under environment (protection) act 1986.
[g]	Ambient noise level should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the Proposed Residential Complex.	Yes, PP will take care of the said stipulated conditions. All the D.G sets proposed for the project will be installed at the basement area of the project with proper anti vibration pad, acoustic enclosure/room to control the noise level within the prescribe standards. However, free flow of traffic movement will be maintained and also adequate landscaping will be provided along the road and periphery of the project.
[h]	The project proponent should maintain the least 34% as green cover area for tree plantation especially all around the periphery of the project and on the road side preferably with local species which can provide protection against noise and suspended particulates matter. The open space inside the project should be preferably landscaped and covered with vegetation/grass, herbs & shrubs. Only local available plant species should be used.	Yes, the green cover area for tree plantation especially all around the periphery of the project and on the road side will be developed as per our submitted Landscape plan to committee. Where we are proposing approximately 34% of total plot area for the green development. The open space inside the project will be preferably landscaped and covered with vegetation/grass, herbs & shrubs
[i]	The project proponent shall strive to minimize water in irrigation of landscape by minimizing grass area, using native variety, xeriscaping and mulching, utilizing efficient irrigation system, scheduling irrigation only after checking evapo-	PP will be providing adequate landscaping and minimizing water in irrigation through for utilizing efficient irrigation system scheduling.

	transpiration data.	
[j]	Rain water harvesting for roof runoff and surface runoff, as per plan submitted should be implemented. Before recharging the surface run off, pre treatment through sedimentation tanks must be done to remove suspended matter, oil & grease. The bore well for rain water recharging shall be kept at least 5 mtrs above the highest ground water table. Care shall be taken that contamination water do not enter any RWH pit. The project proponent shall avoid rain water harvesting of first 10 min of rain fall. Roof top of the building shall be without any toxic material or paint which can contamination rain water, wire mess and filters should be used wherever required.	In the Group Housing 24 RWH pits will be provided. In the plotted development the rainwater harvesting pits will be provided as per Town & Country Planning Department Notification No. 10093 dated 11 th April, 2007 i.e. one pit is provided for each plot having roof area more than 100 sq. m. and apart from this 4 more RWH pits are proposed. and height form current water table for prevention of contamination through roof runoff and surface run off instead of this also providing desilting chamber before RWH pits for removing all unnecessary suspended mater and oil grease.
[k]	The ground water level and quality should be monitored regularly in consultation with central ground water Authority.	The proposed project site is not having any existing bore well. And the proposed project does not require/ is not planning to take any approval of tube well from Central Ground Water Authority. In the Operation phase, HUDA water supply will be available. For the above said reason monitoring of groundwater level and quality will not be practically feasible.
[l]	There should be no traffic congestion near the entry and exit points from the road adjoining the proposed project site. Parking should be fully internalized and no public space should be utilized.	Proper traffic circulation plan with separate entry and exits will be provided at the project site to avoid the traffic congestion. As per our submitted plan approximately 939 ECS parking will be proposed for the group housing including 20% extra visitors parking and the parking for the plots will be provided within the plot itself therefore no public place will be utilized. Details are enclosed as Annexure-XIX of the initial EC Compliance Report.
[m]	A report on the energy conservation measure conforming to energy conservation norms finalized by Bureau of Energy efficiency should be prepared incorporating detail about building material & technology, R & U factor etc and submitted to SEIAA, Haryana in three months times.	PP will take care of Energy conservation through ECBC as far as technically feasible for the project.
[n]	Energy conservation measure like installation of LED for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use of solar panels must be adapted to the	Energy conservation measure like installation of CFL/LED for lighting the areas outside the building will be provided as an integral part of the project design.

	maximum energy conservation.	
[o]	The project proponent shall use zero ozone depleting potential material in insulation, refrigeration, air conditioning and adhesive. Project proponent shall also provide halon free fire suppression system.	Yes, PP will adhere to the said condition
[p]	The solid waste generated should be properly collected and segregated as per the requirement of the MSW Rules, 2000 and as amended from time to time. The biodegradable waste should be treated by appropriate technology at site ear marked within the project area and dry /inert solid waste should be disposed off to the approved site for land filling after recovering recyclable material.	The solid waste generated from the project operation will be collected and taken to centralised locations within the project area from where it will be handed over to authorised vendor of MCG/HSPCB/MoEF for segregation, treatment and disposal at HSPCB approved landfill site. Used oil generated from the D.G sets will be stored in HDPE Containers and will be given to approved vendor of CPCB/HSPCB as per hazardous waste (Management, Handling & transboundry Movement) Rules,2008, amended till date
[q]	The provision of solar water heating system shall be as per norms specified by HAREDA and shall be made operational in each building block.	Yes, solar water heating system shall be provided for the Group Housing Development.
[r]	The traffic plan and parking plan proposed by the project proponent should be meticulously adhered to with further scope of additional parking for future requirement. There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized and no public space should be used.	Proper traffic circulation plan with separate entry and exits will be provided at the project site to avoid the traffic conjunction. As per our submitted plan approximately 939 ECS parking will be proposed for the project with 20% extra visitors parking for Group Housing and for plotted development parking shall be provided within the plots therefore no public place will be utilized.
[s]	Project shall be operationalized only when HUDA/public authority will provide domestic water supply system in the area.	PP has already obtained the assurance letter from HUDA for domestic water supply for the operational phase of the project. Copy enclosed as Annexure-VIII of the initial EC Compliance Report.
[t]	Operation and maintenance of STP, solid waste management and electrical infrastructure, Pollution control measure shall be ensured even after the completion of sale.	Yes, PP will take care of the said stipulated condition of the environment clearance letter. Due care will be taken for the operation and maintenance of STP, solid waste management , electrical infrastructure and pollution control measure even after the completion of sale. However after the commissioning of the project Operation and maintenance of STP, solid waste management and electrical infrastructure will be handed over to their respective registered RWA

		of the project.
[u]	Different type of waste should be disposed off as per provision of municipal solid waste, biomedical waste, hazardous waste, e-waste, batteries & plastic rule made under Environment Protection Act 1986. Particularly E-waste and batteries waste shall be disposed of as per existing E-waste management rule 2011 and batteries management rule 2001. The project proponent should maintain a collection centre for E-waste and it should be disposed of to only register authorized dismantler/recycler.	<p>The proposed project is a residential plotted cum group housing project which will not be generating any kind of biomedical waste and hazardous waste except of DG used oil which will be properly handed over to CPCB/HSPCB/MoEF approved vendor.</p> <p>As it is a Group Housing and Plotted Development Project there will be no generation of E-waste and Batteries waste as such.</p>
[v]	Standards of discharge of environmental pollution as enshrined in various schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied with.	PP will provide all adequate controlling measures for discharge of environmental pollution as enshrined in various schedule of rule 3 of environment protection act 1986 as far as applicable and technically feasible of compliance.
[w]	Water supply shall be metered among different utilities.	Water meter at every necessary place for knowing about water quantity in project area as well as in STP Inlet and outlet for consumption will be provided by the project proponent.
[x]	The project proponent shall ensure that the stack height of DG sets is as per the CPCB guide lines and also ensure that the emission standard of noise and air are within the CPCB prescribed limits. Noise and emission level of DG sets greater than 800 Kva shall be as per CPCB latest standard for high capacity DG sets.	PP will install D.G sets as per proposed plan for power backup with adequate stack height as per CPCB norms simultaneously unit will also control noise by acoustic enclose/room which full fill CPCB prescribed limit as well as latest standard for high capacity DG sets.
[y]	All electric supply exceeding 100 amps, 3 phases shall maintain the power factor between 0.98 lag to 1 at the point of connection.	PP shall comply with the said EC condition.
[z]	The project proponent shall use only treated water instead of fresh water for DG cooling. The project proponent shall also use evaporative cooling technology and double state cooling system for HVAC in order to reduce water consumption. Further temperature relative humidity during summer and winter season should be kept at optimal level. Variable speed drive, best co efficient of performance as well as optimal integrated point load value and minimum outside fresh air supply may	Since the project is Residential project approximately 1433 KLD of treated water will be generated from the sewage treatment plant which will be further utilized in Flushing, Construction activities and Horticulture purpose.

	be resorted for conservation of power and water. Coli type cooling DG sets shall be used for saving cooling water consumption for water cooled DG sets.	
[aa]	The project proponent shall ensure that the transformer is constructed with high quality grain oriented, low loss silicon steel and virgin electrolyte grade copper. The project proponent shall obtain manufacturer's certificate also for that.	The construction of the transformer will be as per the standard norms of DHBVN and it will meet the requirements as specified in the EC condition. The manufacturer's certificate will also be obtained.
[ab]	The project proponent shall ensure that exit velocity from the stack should be sufficiently high. Stack shall be designed in such a way that there is no stack down-water under any meteorological conditions.	Adequate stack height of D.G. sets will be maintained as per C.P.C.B norms
[ac]	The project proponent shall provide water sprinkling system in the project area to suppress the dust in addition to the already suggested mitigation measures in the Air Environment Chapter of EMP.	The measures will be adopted as per our Standard Operating Plan (SOP) for Env attached as Annexure-VI of Initial EC Compliance Report.
PART-B- GENERAL CONDITIONS		
i	The project proponent shall ensure that commitments made in Form-1, Form-1A, EIA/EMP and other documents submitted to the SEIAA for the protection of environment and proposed environmental safeguard are complied within letter and spirit. In case of contradiction between two or more documents on any point, the most environmentally friendly commitments on the point shall be taken as commitment by project proponent.	The Environmental safeguards contained in Form-1, /Form-1A, EIA/EMP and environmental clearance letter will be implemented in true spirit. Please find attached a copy of the Form 1/1A enclosed as Annexure-XIX of Initial EC Compliance Report.
ii	Six monthly compliance reports should be submitted to the HSPCB and Regional office, MoEF, GOI, Northern Region, Chandigarh and a copy to the SEIAA, Haryana.	Yes ,PP is committed to comply with the said stipulated condition for project and regularly submit the six monthly compliance report of the project along with the Environmental Monitoring report carried out by MoEF approved Lab to HSPCB ,Regional Office, MoEF, GOI, Northern Region, Chandigarh and SEIAA, Haryana.
iii	STP outlet after stabilization and stack emission shall be monitored monthly. Other environmental parameters and green belt shall be monitored on quarterly basis. After every 3 (three) months, the project proponent shall conduct environmental audit and shall take corrective measure, if required, without delay.	As per MoEF EIA Guidelines Six monthly EC compliance report will be submitted along with environmental monitoring report of STP, Noise, Ambient Air & Stack to the HSPCB and Regional office, MoEF, GOI, Northern Region, Chandigarh and SEIAA, Haryana. The Maintenance team will take care of smooth functioning of the STP and D.G. sets via AMC with competent company/ vendor/ expert. They will monitor their relevant parameters of STP &

		D.G. sets via online or manual system. All the D.G. sets will be provided in acoustic enclosure/room and adequate stack height as per CPCB norms will be maintained. So the probability of air & noise emissions is low. Periodic maintenance work of STP & D.G. sets will be carried out for ensuring the smooth & proper functioning of STP & D.G. sets.
iv	The SEIAA, Haryana reserves the right to add additional safeguard measures subsequently, if found necessary Environmental Clearance granted will be revoked if it is found that false information has been given for getting approval of this project. SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF.	PP will abide by the additional safeguards if suggested by the Ministry in future as applicable and technically feasible of compliance.
v	The project proponent shall not violate any judicial orders/ pronouncements issued by any Court/Tribunal.	PP shall comply with the said condition as applicable for said project, if any.
vi	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. Forest Act, 1927, PLPA 1900, etc shall be obtained as applicable by project proponent from the respective authorities prior to construction of the project.	All other statutory clearances such as the approvals from: Approvals of: <ul style="list-style-type: none"> • Chief Controller of Explosives: will be obtained in time. • Fire Department: Will be obtained in time. • PLPA, 1900, Forest Act, 1927: NOC against Aravali Notification, 1992 and PLPA 1900 and Forest NOC from The Deputy Commissioner (DC), Gurgaon and Forest NOC from Dy. Conservator of Forests enclosed as Annexure- III of Initial EC Compliance Report. • Civil Aviation: Height clearance from Airport Authority of India (AAI) enclosed as Annexure-XV of initial EC Compliance Report. • Forest Conservation Act: N/A Wildlife Act : N/A
vii	The project proponent should inform the public that the project has been accorded Environment Clearance by the SEIAA and copies of the clearance letter are available with the Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 days from the date circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A	PP received the EC letter vide letter no. SEIAA/HR/2013/595 dated 04.09.2013 received on 09.09.2013 and in compliance with the said condition PP duly published an advertisement in The Tribune (English), & Dainik Bhaskar(Hindi) , on 13.09.2013 & 14.09.2013 respectively informing the public about the grant of EC for our project. Copies of the advertisement are already enclosed as

	copy of Environment clearance condition shall also be put on project proponent's web site for public awareness.	Annexure-XIX of the Initial EC Compliance Report. Apart from this PP has also uploaded the EC accorded for the project on the company's official website: www.unitechgroup.com for public awareness. Also PP has submitted the above said advertisements to SEIAA, Haryana vide letter no. Advertisement/SEIAA-H/H/ NC-III/2509/2013 dated 25.09.2013.
viii	Under the Provision 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 before obtaining prior Environmental Clearance.	PP is yet to start the construction activities at the project site. PP has already obtained Environmental Clearance vide letter no SEIAA/HR/2013/444 dated 12.07.2013 . Copy of the same along with site photographs are enclosed herewith as Annexure-III for your ready reference.
ix	Any appeal against the Environmental Clearance shall lie with the National Green Tribunal. if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	PP is committed to comply with all the directions/Rules/Instructions issued time to time by the Board as applicable and technically feasible of the project.
x	The Project proponent shall put in place Corporate Environmental Policy as mentioned in MoEF, GOI, OM 1-11013/41/2006-IA II (I) dated 26.04.2012 within 3 months period. Latest Corporate Environmental Policy should be submitted to SEIAA within 3 months of issuance of this letter.	Already Submitted.
xi	The fund ear-marked for environmental protection measure should be kept in separate account and should not be diverted for other purposes and year wise expenditure shall be reported to the SEIAA/RO MoEF, GOI under rules prescribed for Environment Audit.	The Environment Management Plan cost details proposed for the project is enclosed herewith as Annexure –IV .
xii	The project proponent shall ensure the compliance of Forest Department, Haryana Notification no. S.O.121/PA2/1900/S.4/97 dated 28.11.1997	PP has already obtained the NOC against Aravali Notification, 1992 and PLPA 1900 and Forest NOC from The Deputy Commissioner (DC), Gurgaon and Forest NOC from Dy. Conservator of Forests Please refer Annexure-III of initial EC Compliance Report.
xiii	The Project proponent shall ensure that no vehicle during construction/operation phase enter the project premises without valid "Pollution Under Control" certificate from competent Authority.	PP will take care of the said stipulated condition. Vehicles will not be allowed during construction/operational phase both without the "Pollution Under Control" certificate from the competent authority.
xiv	The project proponent is responsible for compliance of all conditions in	Yes, PP will take care of the said stipulated conditions as applicable and technically feasible

	Environmental Clearance letter and project proponent can not absolve himself/herself of the responsibility by shifting it to any contractor engaged by project proponent.	of the project.
xv	The project proponent shall seek fresh Environmental clearance if at any stage there is change in the planning of the proposed project.	Yes, as per MoEF EIA guidelines if our Built up area as mentioned in the EC letter which is 381846.34 sq. m. increases and affects the environmental aspects and requires additional environmental management plan then we shall take care of the stipulated condition as per MoEF EIA guidelines.

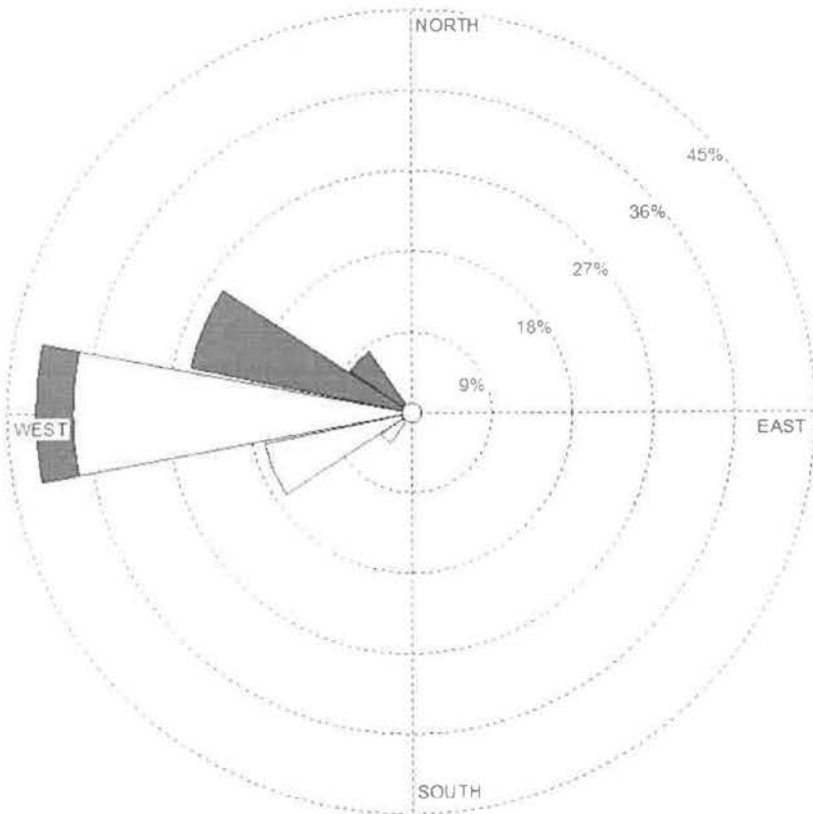
Annexure I

Monitoring Reports

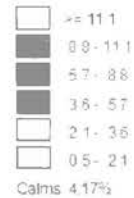
WIND ROSE PLOT

DISPLAY

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)



COMMENTS

DATA PERIOD

Start Date: 3/2/2016 - 10:00
End Date: 4/2/2016 - 09:00

Project Name

Nirvana Country III

MODELER

CALM % NOS

4.17%

TOTAL COUNT

24 hrs.

Avg WIND SPEED

2.99 m/s

DATE

3/3/2016

PROJECT NO



J.M. EnviroLab Pvt. Ltd.

INTERNATIONAL ENVIRONMENTAL RESEARCH AND DEVELOPMENT CENTRE

JMJKJ

Environmental, Mineral & Food Testing Laboratory
Accredited from MoEF-EPA (Govt. of India), NABL, MSME, NSIC, ISO 9001 : 2008, ISO 14001 : 2004 & OHSAS 18001 : 2007
SCO-16, Sector-10A, Gurgaon-122 001 (Haryana) INDIA • TEL.: +91-124-4873400 • FAX: +91-124-4141029
E-mail: jmenvirolab@hotmail.com • Website: www.jmenvirolab.com

TEST REPORT

Name & Address of unit: M/s Unitech Limited
Unitech House, South City-I,
Gurgaon (Haryana)
Residential Plotted Cum Group Housing
Project "Nirvana Country-III"
Sector-70, Gurgaon (Haryana)

Date of Reporting: 12/02/2016
Ref. No.: & Date: Nil
Report No.: JME/M/160202002
Date of Monitoring: 03/02/16 to 04/02/16

Sample description: Meteorological Monitoring
Sampling location: Project Site
Monitoring done by: J. M. EnviroLab (P) Ltd. - Team

METEOROLOGICAL DATA

Date	Time	Wind Direction (Deg.)	Wind Speed (m/s)	Ambient Temp. (°C)	Relative Humidity (%)
03/02/2016	10.00	270	3.1	13	63
03/02/2016	11.00	290	5.1	17	45
03/02/2016	12.00	292	5.1	18	42
03/02/2016	13.00	290	4.1	20	35
03/02/2016	14.00	295	4.1	21	31
03/02/2016	15.00	291	4.1	21	31
03/02/2016	16.00	315	4.1	21	33
03/02/2016	17.00	315	4.1	20	35
03/02/2016	18.00	292.5	4.1	19	40
03/02/2016	19.00	270	3.6	18	48
03/02/2016	20.00	250	2.6	15	55
03/02/2016	21.00	272	2.6	14	59
03/02/2016	22.00	270	2.6	13	63
03/02/2016	23.00	272	2.1	12	67
04/02/2016	00.00	275	2.6	11	67
04/02/2016	01.00	274	2.6	11	67
04/02/2016	02.00	248	2.1	10	76
04/02/2016	03.00	270	2.1	9	82
04/02/2016	04.00	270	2.1	9	82
04/02/2016	05.00	270	2.1	8	83
04/02/2016	06.00	245	2.1	8	84
04/02/2016	07.00	0	0	7	86
04/02/2016	08.00	225	2.1	8	80
04/02/2016	09:00	242	2.6	11	67

Tested by

Checked by

Authorized Signatory

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SCO-16, Sector-10A, Gurgaon-122 001 (Haryana) INDIA • TEL.: +91-124-4873400 • FAX: +91-124-4141029
E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/UL/W/01

Report No. : JME/W/160204001

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits of IS: 10500-2012	
					Desirable Limit (Max)	Permissible Limit in the Absence of Alternate Source (Max)
31			CFU/100 ml)			
32	E-Coli	IS 1622, 1981 (Reaffirmed 2003)	ND	CFU/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit, *ND- Not Detectable

Shubham
Tested by

Praveen
Checked by

Authorized Signatory

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TEST REPORT

Sample Number : JME/UL/W/01

Report No. : JME/W/160204001

TEST RESULTS

Limits of IS: 10500-2012

Sl. No.	Parameters	Testing Protocol	Result	Unit	Desirable Limit (Max)	Permissible Limit in the Absence of Alternate Source (Max)
12	Magnesium as Mg	APHA 22nd Edition, 2340 B	6.39	mg/l	30	100
13	Total Dissolved Solids	APHA 22nd Edition, 2540 C	85.65	mg/l	500	2000
14	Sulphate as SO ₄	APHA 22nd Edition, 4500 E	1.76	mg/l	200	400
15	Fluoride as F	APHA 22nd Edition, 4500-F-D	0.13	mg/l	1.0	1.5
16	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	0.42	mg/l	45	No Relaxation
17	Iron as Fe	APHA 22nd Edition, 3500-Fe B	BDL(DL 0.02 mg/l)	mg/l	0.3	No Relaxation
18	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL (DL 0.03 mg/l)	mg/l	0.03	0.2
19	Boron	APHA 22nd Edition, 4500B C	BDL(DL 0.20 mg/l)	mg/l	0.50	1.0
20	Phenolic Compounds	APHA 22nd Edition, 5530 C Photometric method 5530D	BDL (DL 0.001 mg/l)	mg/l	0.001	0.002
21	Anionic Detergents as MBAS	APHA 22nd Edition, 5540-C	BDL (DL 0.02 mg/l)	mg/l	0.2	1.0
22	Hexa Chromium as Cr+6	APHA 22nd Edition, 3111 B	BDL (DL 0.03 mg/l)	mg/l	--	--
23	Zinc as Zn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	5	15
24	Copper as Cu	APHA 22nd Edition, 3111 B	BDL(DL 0.02 mg/l)	mg/l	0.05	1.5
25	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
26	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL (DL 0.0005 mg/l)	mg/l	0.003	No Relaxation
27	Lead as Pb	APHA 22nd Edition, 3111 B	BDL (DL 0.008 mg/l)	mg/l	0.01	No Relaxation
28	Selenium as Se	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.01	No Relaxation
29	Arsenic as As	APHA 22nd Edition, 3111 B	BDL (DL 0.0005 mg/l)	mg/l	0.01	0.05
30	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	BDL(DL 2.00	CFU/100 ml	Absent	Absent

Shubham
Tested by

Arjun
Checked by

Arjun
Authorized Signatory

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Page No 2/3





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 E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/UL/W/01
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana)

Report No. : JME/W/160204001
 Format No. : 5.10 F-01

Sample Description : WATER (Drinking Water)

Party Reference No: Nil

Sampling Location : Site office
 Client Representative : Mr. R.P Anand (Manager)
 Sample collected by : Shailendra Kumar(Field co-ordinator)
 Latitude : 28°23'21.52"N
 Longitude : 77°01'33.80"E
 Sampling & Analysis Protocol : IS-10500-2012, APHA 22nd Edition 2012

Reporting Date : 10/02/2016
 Receipt Date : 04/02/2016
 Sampling Date : 04/02/2016
 Sampling Type : Grab
 Preservation : Ref.
 Sample Quantity : 2.0 ltr.
 Parameter Required As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits of IS: 10500-2012	
					Desirable Limit (Max)	Permissible Limit in the Absence of Alternate Source (Max)
1	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.25	-	-	No Relaxation
2	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen Unit	5	15
3	Turbidity	APHA 22nd Edition, 2130(B)	BDL(DL 1.0 NTU)	NTU	1	5
4	Odour	APHA 22nd Edition, 2150	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 22nd Edition, 2160	Agreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO ₃	APHA 22nd Edition, 2340 C	48.56	mg/l	200	600
7	Calcium as Ca	APHA 22nd Edition, 3500Ca B	8.92	mg/l	75	200
8	Alkalinity as CaCO ₃ ,	APHA 22nd Edition, 2320 B	66.51	mg/l	200	600
9	Chloride as Cl	APHA 22nd Edition, 4500Cl-B	18.70	mg/l	250	1000
10	Residual free Chlorine	APHA 22nd Edition, 3500 Cl- B	BDL(DL 0.20 mg/l)	mg/l	0.2	1.0
11	Cyanide as CN	APHA 22nd Edition, 4500CN-CD	BDL (DL 0.02 mg/l)	mg/l	0.05	No Relaxation

Shubham
 Tested by

[Signature]
 Checked by

[Signature]
 Authorized Signatory

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E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/UL/S/01 Report No. : JME/S/160204003
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana)
 Sample Description : SOIL Party Reference No: NIL
 Sampling Location : Project Site Reporting Date : 10/02/2016
 Client Representative : Mr. R.P. Anand (Project Manager) Receipt Date : 04/02/2016
 (Name & Designation)
 Sample collected by : Mr. Shalindra Kumar (Field Co-ordinator) Sampling Date : 04/02/2016
 (Name & Designation) Sampling Type : Composite
 Latitude : 28°23'23.82"N Sample Quantity : 2.0 kg.
 Longitude : 77°01'36.44"E Depth of Sampling : 30 cm.
 Sampling & Analysis Protocol : IS-2720,USDA,Method Manual of Soil Testing in Ind. Packing Status : Temp. sealed packed

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit
1	pH (at 25 °C)(1:2.5 soil water sus.)	IS : 2720 (P-26,1987)	7.71	-
2	Conductivity(1:2soil water sus.)	IS:14767,2000	0.23	mS/cm
3	Soil Texture	USDA :1954 Reaffirmed 2010	Sandy Loam	-
4	Water holding capacity	USDA :1954 Reaffirmed 2010	36.25	%
5	Available Potassium as K	Method manual of soil Testing in india,(Dept. of Ag.& Co.Ministry of Ag.Govt.of Ind.)2011,4.6.3(14)	140.52	kg./hec.
6	Nitrogen as N	IS:14684, 1999	202.39	kg./hec.
7	Available Phosphorus	Method manual of soil Testing in india,(Dept. of Ag.& Co.Ministry of Ag.Govt.of Ind.)2011,4.6.3(13)	20.10	kg./hec.
8	Organic Carbon	IS:2720 (P-22, 1972)	0.31	%
9	Permeability	USDA :1954 Reaffirmed 2010\	2.14	cm/hrs
10	SAR VALUE	USDA :1954 Reaffirmed 2010\	0.75	-

Dijanda
 Tested by

Shalindra Kumar
 Checked by

Authorized Signatory
 Authorized Signatory

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**TEST REPORT**

Sample Number : JME/UL/A/05 Report No. : JME/A/160204005
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana) Format No. : 5.10 F-02

Sample Description : AMBIENT AIR QUALITY MONITORING Party Reference No: Nil
 Reporting Date : 10/02/2016
 Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P. Anand (Manager)
 Sample collected by (Name & Designation) : Mr.T.K Singh (Field Co-ordinator)
 Sampling Location : North East Corner
 Latitude : 28°23'23.08"N
 Longitude : 77°01'33.06"E
 Instrument used : RDS & FPS
 Instrument code : JME/RDS/01/08 , JME/FPS/01/08
 Instrument calibration status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 03/02/2016 To 04/02/2016
 Time of Monitoring : 10:30 to 10:30 hrs
 Actual duration of Monitoring, (minutes) : 1260.0
 Ambient Temperature (°C) : Max 21.0 Min 7.0
 Surrounding activity : Human & Vehicular Activities.
 Scope of Monitoring : Regulatory Requirement
 Control measure if Any :
 Sampling & Analysis Protocol : IS-5182
 Parameter Required : Complete

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	PM2.5 sampler (Gravimetric)	43.88	µg/m3	60
2	Particulate Matter (PM10)	IS: 5182 (P-23), 2006	84.52	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182 (P-6), 1975 Reffirmed-1998	21.54	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182 (P-2), 2001	8.80	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	BDL(DL 0.50 mg/m3)	mg/m3	4

*NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

Miner
 Tested by

Pranav
 Checked by

Authorized Signatory
 Authorized Signatory

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E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/UL/A/04 Report No. : JME/A/160204004
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana) Format No. : 5.10 F-02

Sample Description : AMBIENT AIR QUALITY MONITORING

Party Reference No: Nil

Reporting Date : 10/02/2016

Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P. Anand (Manager)
 Sample collected by (Name & Designation) : Mr.T.K Singh (Field Co-ordinator)
 Sampling Location : South west corner
 Latitude : 28°23'27.97"N
 Longitude : 77°01'35.90"E
 Instrument used : RDS & FPS
 Instrument code : JME/RDS/01/09 , JME/FPS/01/06
 Instrument calibration status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 03/02/2016 To 04/02/2016
 Time of Monitoring : 09:30 to 09:30 hrs
 Actual duration of Monitoring, (minutes) : 1410.0
 Ambient Temperature (°C) : Max 21.0 Min 7.0
 Surrounding activity : Human & Vehicular Activities.
 Scope of Monitoring : Regulatory requirement
 Control measure if Any :
 Sampling & Analysis Protocol : IS-5182
 Parameter Required : As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	PM2.5 sampler (Gravimetric)	39.87	µg/m3	60
2	Particulate Matter (PM10)	IS: 5182 (P-23), 2006	79.36	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182 (P-6), 1975 Reffirmed-1998	20.78	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182 (P-2), 2001	8.65	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	BDL(DL 0.50 mg/m3)	mg/m3	4

*NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(ii)] 16.11.2009

Tested by

Checked by

Authorized Signatory

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TEST REPORT

Sample Number : JME/UL/A/03 Report No. : JME/A/160204003
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana)

Party Reference No: Nil

Sample Description : AMBIENT AIR QUALITY MONITORING
 Reporting Date : 10/02/2016
 Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P. Anand (Manager)
 Sample collected by (Name & Designation) : Mr.Shailendra Kumar (Field Co-ordinator)
 Sampling Location : Center of Project Site
 Latitude : 28°23'28.43"N
 Longitude : 77°01'28.22"E
 Instrument used : RDS with 2.5 attachment
 Instrument code : JME/RDS/01/04 with 2.5 attached
 Instrument calibration status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 03/02/2016 To 04/02/2016
 Time of Monitoring : 09:30 to 09:30 hrs
 Actual duration of Monitoring, (minutes) : 1375.0
 Ambient Temperature (°C) : Max 21.0 Min 7.0
 Surrounding activity : Human & Vehicular Activities.
 Scope of Monitoring : Regulatory Requirement
 Control measure if Any :
 Sampling & Analysis Protocol : IS-5182
 Parameter Required : As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	PM2.5 sampler (Gravimetric)	46.10	µg/m3	60
2	Particulate Matter (PM10)	IS: 5182 (P-23), 2006	89.80	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182 (P-6), 1975 Reffirmed-1998	24.15	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182 (P-2), 2001	9.90	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	BDL(DL 0.50 mg/m3)	mg/m3	4

*NAAQS National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

Dhiner
 Tested by

Shailendra
 Checked by

Authorized Signatory
 Authorized Signatory

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SCO-16, Sector-10A, Gurgaon-122 001 (Haryana) INDIA • TEL.: +91-124-4873400 • FAX: +91-124-4141029

E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/UL/A/02 Report No. : JME/A/160204002
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana) Format No. : 5.10 F-02

Sample Description : AMBIENT AIR QUALITY MONITORING Party Reference No: Nil
 Reporting Date : 10/02/2016
 Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P. Anand (Manager)
 Sample collected by (Name & Designation) : Mr.Shailendra Kumar (Field Co-ordinator)
 Sampling Location : Site office
 Latitude : 28°23'26.17"N
 Longitude : 77°01'30.80"E
 Instrument used : RDS & FPS
 Instrument code : JME/RDS/01/07,JME/FPS/01/04
 Instrument calibration status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 03/02/2016 To 04/02/2016
 Time of Monitoring : 08:00 to 08:00 hrs
 Actual duration of Monitoring, (minutes) : 1285.0
 Ambient Temperature (°C) : Max 21.0 Min 7.0
 Surrounding activity : Human & Vehicular Activities.
 Scope of Monitoring : Regulatory Requirement
 Control measure if Any :
 Sampling & Analysis Protocol : IS-5182
 Parameter Required : As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	PM2.5 sampler (Gravimetric)	44.20	µg/m3	60
2	Particulate Matter (PM10)	IS: 5182 (P-23), 2006	86.35	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182 (P-6), 1975 Reffirmed-1998	21.60	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182 (P-2), 2001	8.20	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	BDL(DL 0.50 mg/m3)	mg/m3	4

*NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

[Signature]
 Tested by

[Signature]
 Checked by

[Signature]
 Authorized Signatory

Note:

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TEST REPORT

Sample Number : JME/UL/A/01 Report No. : JME/A/160204001
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana) Format No. : 5.10 F-02

Sample Description : AMBIENT AIR QUALITY MONITORING Party Reference No: Nil
 Reporting Date : 10/02/2016
 Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P. Anand (Manager)
 Sample collected by (Name & Designation) : Mr.T.K. Singh(Field Co-ordinator)
 Sampling Location : Nr. Main Gate
 Latitude : 28°23'21.86"N
 Longitude : 77°01'39.59"E
 Instrument used : RDS with 2.5 attachment
 Instrument code : JME/RDS/01/03
 Instrument calibration status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 03/02/2016 To 04/02/2016
 Time of Monitoring : 09:05 to 09:05
 Actual duration of Monitoring, (minutes) : 1145.0
 Ambient Temperature (°C) : Max 21.0 Min 7.0
 Surrounding activity : Human & Vehicular Activities.
 Scope of Monitoring : Regulatory Requirement
 Control measure if Any :
 Sampling & Analysis Protocol : IS-5182
 Parameter Required : As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	PM2.5 sampler (Gravimetric)	40.25	µg/m ³	60
2	Particulate Matter (PM10)	IS: 5182 (P-23), 2006	82.00	µg/m ³	100
3	Nitrogen Dioxides (NO ₂)	IS: 5182 (P-6), 1975 Reffirmed-1998	22.36	µg/m ³	80
4	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), 2001	8.69	µg/m ³	80
5	Carbon Monoxide (CO)	IS: 5182 (P-10), 1999	0.52	mg/m ³	4

*NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

Shree
 Tested by

Shree
 Checked by

Shree
 Authorized Signatory

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TEST REPORT

Sample Number : JME/UL/AN/04 Report No. : JME/AN/160204010
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana) Format No. : 5.10 F-04

Sample Description : AMBIENT NOISE LEVEL MONITORING

Party Reference No. NIL

Reporting Date : 08/02/2016

Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P Anand (Manager)
 Sample collected by (Name & Designation) : Mr. T.K Singh (Field Co-ordinator)
 Sampling Location : Near North Boundary wall
 Latitude : 28°23'30.02" N
 Longitude : 77°01'32.08"E
 Date of Monitoring : 03/02/2016 To 04/02/2016
 Time of Monitoring : 06:00 to 06:00 Hrs.
 Instrument used : Sound Level Meter
 Instrument code : JME/SLM/01/03
 Instrument calibration status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Ambient Temperature (°C) : Max. 21.0°C Min. 7.0°C
 Surrounding activity : Human & Vehicular Activities
 Scope of Monitoring : Regulatory Requirement
 Control measure if Any : Yes
 Sampling & Analysis Protocol : CPCB GuideLines & IS-9989
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1	Lmax	CPCB GuideLines / IS-9989	67.5	57.7	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	42.6	39.1	dB(A)
3	Leq	CPCB GuideLines / IS-9989	51.3	44.8	dB(A)
4	CPCB Limits in dB(A) Leq (Commercial area)	--	65.0	55.0	dB(A)

Dine
 Tested by

Dine
 Checked by

Authorized Signatory

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TEST REPORT

Sample Number : JME/UL/AN/03 Report No. : JME/AN/160204003
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana) Format No. : 5.10 F-04

Sample Description : AMBIENT NOISE LEVEL MONITORING

Party Reference No. NIL

Reporting Date : 08/02/2016

Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P Anand (Manager)
 Sample collected by (Name & Designation) : Mr. Shailendra Kumar (Field Co-ordinator)
 Sampling Location : Near South Boundary wall
 Latitude : 28°23'21.02" N
 Longitude : 77°01'38.08"E
 Date of Monitoring : 03/02/2016 To 04/02/2016
 Time of Monitoring : 06:00 to 06:00 Hrs.
 Instrument used : Sound Level Meter
 Instrument code : JME/SLM/01/01
 Instrument calibration status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Ambient Temperature (°C) : Max. 21.0°C Min. 7.0°C
 Surrounding activity : Human & Vehicular Activities
 Scope of Monitoring : Regulatory Requirement
 Control measure if Any : Yes
 Sampling & Analysis Protocol : CPCB GuideLines & IS-9989
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1	Lmax	CPCB GuideLines / IS-9989	69.2	53.5	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	43.2	39.4	dB(A)
3	Leq	CPCB GuideLines / IS-9989	54.7	44.3	dB(A)
4	CPCB Limits in dB(A) Leq (Commercial area)	--	65.0	55.0	dB(A)

Dine
 Tested by

Ujjwal
 Checked by

Ujjwal
 Authorized Signatory

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E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/UL/AN/02 Report No. : JME/AN/160204002
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana) Format No. : 5.10 F-04

Sample Description : AMBIENT NOISE LEVEL MONITORING

Party Reference No. NIL

Reporting Date : 08/02/2016

Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P Anand (Manager)
 Sample collected by (Name & Designation) : Mr. Shailendra Kumar (Field Co-ordinator)
 Sampling Location : Near Main Gate
 Latitude : 28°23'21.86" N
 Longitude : 77°01'39.59"E
 Date of Monitoring : 03/02/2016 To 04/02/2016
 Time of Monitoring : 06:00 to 06:00 Hrs.
 Instrument used : Sound Level Meter
 Instrument code : JME/SLM/01/08
 Instrument calibration status : Calibrated

Meteorological condition during monitoring : Clear Sky
 Ambient Temperature (°C) : Max. 21.0°C Min. 7.0°C
 Surrounding activity : Human & Vehicular Activities
 Scope of Monitoring : Regulatory Requirement
 Control measure if Any : Yes
 Sampling & Analysis Protocol : CPCB GuideLines & IS-9989
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1	Lmax	CPCB GuideLines / IS-9989	70.8	50.2	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	42.2	38.9	dB(A)
3	Leq	CPCB GuideLines / IS-9989	54.8	42.8	dB(A)
4	CPCB Limits in dB(A) Leq (Commercial area)	--	65.0	55.0	dB(A)

Dinesh
 Tested by

Shailendra Kumar
 Checked by

Shailendra Kumar
 Authorized Signatory

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E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/UL/AN/01
Name & Address of Unit : M/s. Unitech Ltd.
Residential Plotted cum group Housing Project
"Nirvana Country-III" At sector 70,
Gurgaon (Haryana)

Report No. : JME/AN/160204001
Format No. : 5.10 F-04

Sample Description : AMBIENT NOISE LEVEL MONITORING

Party Reference No. : NIL
Reporting Date : 08/02/2016
Receipt Date : 04/02/2016

General Information

Client Representative (Name & Designation) : Mr. R.P Anand (Manager)
Sample collected by (Name & Designation) : Mr. Shailendra Kumar (Field Co-ordinator)
Sampling Location : Near Site office
Latitude : 28°23'21.51" N
Longitude : 77°01'33.98"E
Date of Monitoring : 03/02/2016 To 04/02/2016
Time of Monitoring : 06:00 to 06:00 Hrs.
Instrument used : Sound Level Meter
Instrument code : JME/SLM/01/09
Instrument calibration status : Calibrated

Meteorological condition during monitoring : Clear Sky
Ambient Temperature (°C) : Max. 21.0°C Min. 7.0°C
Surrounding activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Yes
Sampling & Analysis Protocol : CPCB GuideLines & IS-9989
Sampling Duration : 24 Hrs.
Parameter Required : Lmax, Lmin, Leq,

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1	Lmax	CPCB GuideLines / IS-9989	67.5	57.7	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	42.6	39.1	dB(A)
3	Leq	CPCB GuideLines / IS-9989	51.3	44.8	dB(A)
4	CPCB Limits in dB(A) Leq (Commercial area)	—	65.0	55.0	dB(A)

Tested by

Checked by

Authorized Signatory

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 E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/PS/UL/01 Report No. : JME/PS/160204003
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana)

Party Reference No. Nil
 Reporting Date : 10/02/2016
 Receipt Date : 04/02/2016

Sample Description : POINT SOURCE NOISE

General Information

Client Representative (Name & Designation) : Mr. R.P. Anand (Project Manager)
 Sample collected by (Name & Designation) : Mr. T.K. Singh (Field Co-ordinator)
 Sampling Location : Near D.G Set(40 KVA)
 Latitude : ---
 Longitude : ---
 Date of Monitoring : 03/02/2016 To 03/02/2016
 Time of Monitoring : 13:00 to 13:30 hrs.
 Instrument used : Sound Level meter
 Instrument code : JME/SLM/01/06
 Instrument calibration status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Ambient Temperature (°C) : 24.1
 Surrounding activity : D.G. Set Running Activity
 Purpose of Monitoring : Regulatory Requirement
 Control measure if Any : ---
 Sampling & Analysis Protocol : CPCB GuideLines & IS-9989
 Sampling Duration : 30.0 Minutes
 Parameter Required : As Per Work Order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result	Unit
1	Lmax	CPCB GuideLines	71.6	dB(A)
2	Lmin	CPCB GuideLines	65.3	dB(A)
3	Leq	CPCB GuideLines	70.4	dB(A)
4	CPCB Limits in dB(A) Leq		75.0	dB(A)

Tested by

Checked by

Authorized Signatory

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TEST REPORT

Sample Number : JME/UN/ST/05

Report No. : JME/ST/160204001

TEST RESULTS				
S.No.	Parameters	Testing Protocol	Result	Unit
2	Oxides of Nitrogen (NOx),	IS-11255(P-VII) PDA Method	65.10	mg/Nm3
3	Carbon mono Oxide	G.C.Method	5.80	mg/Nm3
4	Total Hydro Carbons as Methane	G.C.Method	1.13	mg/Nm3

Diner
Tested by

Q. Kumar
Checked by

Q. Kumar
Authorized Signatory

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E-mail: jmenvirolab@hotmail.com • Website : www.jmenvirolab.com

TEST REPORT

Sample Number : JME/UN/ST/05 Report No. : JME/ST/160204001
 Name & Address of Unit : M/s.Unitech Ltd.
 Residential Plotted cum group Housing Project
 "Nirvana Country-III" At sector 70,
 Gurgaon (Haryana) Party Reference No: NIL
 Sample Description : STACK EMISSION MONITORING Reporting Date : 10/02/2016
 Receipt Date : 04/02/2016

Client Representative (Name & Designation) : Mr.R.P. Anand(Project Manager)
 Sample collected by (Name & Designation) : Mr. T.K. Singh (Field Co-ordinator)
 Date of Sampling & Time : 03/02/2016 (14:00 Hrs to 14:30 Hrs)
 Sampling Location & Code : D. G. Set - 40.0 KVA

Sampling duration (Minutes) : 50.0
 Latitude : --
 Longitude : --
 Stack attached to : D. G. Set - 40.0 KVA
 Make of stack : Iron
 Diameter of stack : 0.10 Mtr
 Height of stack :
 (i)From the source of emission : --
 (ii)From roof level : --
 (iii)From Ground Level : 2.5 Mtr.

Operating Schedule (Hrs/day) : As per Requirement
 Scope of Monitoring : Regulatory Requirement
 Control measure if Any : Yes
 Operating condition at the time of Sampling : On Load
 Type of fuel used : Diesel
 Meteorological Condition : Clear Sky
 Instrument code : JME/SMK/01/02
 Instrument calibration status : Calibrated

Ambient Temperature - Ta (°C) : 24.0
 Temperature of Stack Gases - Ts (°C) : 172.0
 Velocity of Stack Gases (m/sec.) : 11.15
 Flow rate of PM (LPM) : 15.0
 Flow rate of Gas (LPM) : 2.0
 Volumetric Flow (NM3/Hr.) : ----
 Sampling condition : Iso-kinetic
 Sampling & Analysis Protocol : IS-11255 & CPCB Guidelines
 Parameter Required : PM,NOx, CO & HC

TEST RESULTS

S.No.	Parameters	Testing Protocol	Result	Unit
1	Particulate Matter (PM),	IS-11255(P-1) Gravimetric Method	27.30	mg/Nm3

Tested by
 Tested by

Checked by
 Checked by

Authorized Signatory
 Authorized Signatory

Note:

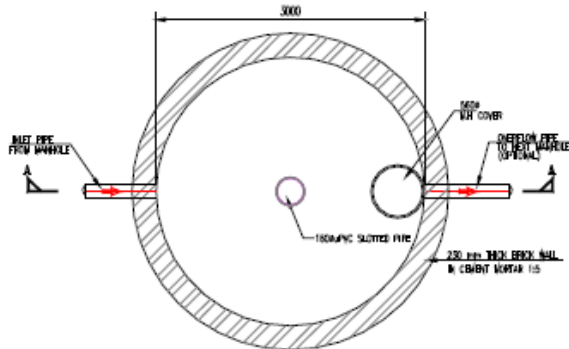
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- Endorsement of the product tested by the laboratory is neither inferred nor implied.
- All disputes are subject to exclusive jurisdiction of Jaipur court only.



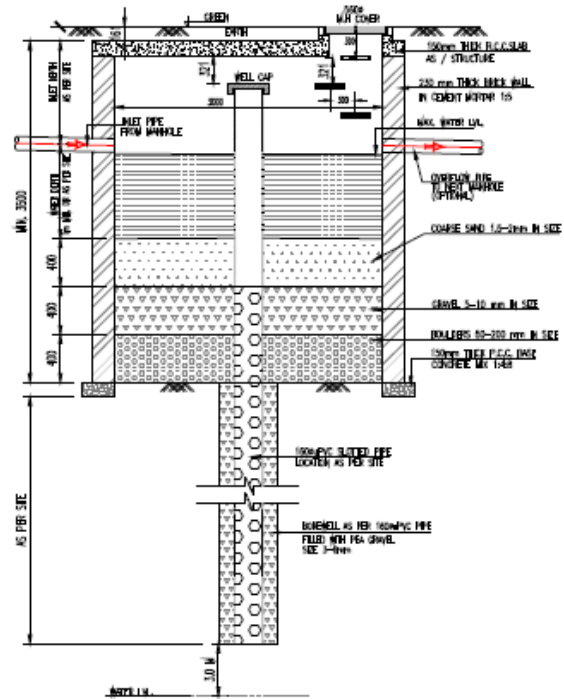
Annexure II

RWH Pit Diagram

DESIGN OF RAIN WATER HARVESTING DETAILS



PLAN OF HARVESTING PIT



**SECTION A-A
DETAILS OF HARVESTING PIT**

Annexure III

Site Photographs

SITE PHOTOGRAPHS



"Nirvana Country-III" By: M/s Unitech Ltd.

Annexure IV

Estimated Cost of Environmental Management Plan

COST ON ENVIRONMENT MANAGEMENT PLAN

CAPITAL EXPENDITURE

S.No	Description	Capital Cost (Rs. In Crores)
1	Landscaping	1.2
2	STP/ Waste water treatment	132.0
3	Rain Water harvesting	4.0
4	Acoustic Treatment	0.4
5	Solid Waste Management	0.2
6	Miscellaneous	0.1
	Total	137.9 Crores

RECURRING EXPENDITURE

S.No	Description	Cost during Operation (Rs. in Lakhs/ Year)
1	Landscaping	10.0
2	Water Management	30.0
3	Air Management	3.0
4	Solid Waste Management	6.0
5	Environment Monitoring	3.5
6	Misc	2.0
	Total	54.5 Lakhs/yr

"Nirvana Country-III" Bv: M/s Unitech Ltd.