PYRAMID™
INFRATECH PVT. LTD.

Date:25.05.2020

To

State Environment Impact Assessment Authority (SEIAA),
Bay No. 55-58, Paryatan Bhavan, Sector-2,
Panchkula, Haryana.

Sub: Submission of Six Monthly Compliance Report of Stipulated Conditions of Environmental Clearance for construction of Affordable group housing colony at Sector-86, Village – Badha, District- Gurgaon (Haryana) for the Submission period of June 2020.

Ref. No. SEIAA/HR/2016/25 dated 22/01/2016

Sir,

In accordance to the environmental clearance for the above project received from the State Environment Impact Assessment Authority (SEIAA), Haryana, vide letter no. **SEIAA/HR/2016/25 dated 22/01/2016.** We are submitting herewith six monthly compliance report of stipulated conditions of Environment Clearance (soft copy) for the Submission period of **June 2020**

For M/s Pyramid Infratech Pvt. Ltd.

For Pyramid Infratech Pvt. Ltd.

Authorised Signatory

(Authorized signatory)

Name - Sunil Kumar
Designation-LC
E-mail -sunil@pyramidinfratech.com
Contact No.-9811000240
Copy to:

1. The Additional Director (IA Division), MoEF&CC, GoI, Indra Paryavaran Bhawan, Zor Begh Road-Delhi.
2. The Regional Office, Ministry of Environment & Forests, MoEF&CC Govt. Of India, Bay's No. 24-25, sector-31-A, Dakshin Marg, Chandigarh.
3. The Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula.

SEMI ANNUAL ENVIRONMENTAL COMPLIANCE MONITORING REPORT OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE (June 2020)

FOR

Group Housing Project,
Village-Badha, Sector-86, Gurgaon (HR)

For Submission to:
Ministry of Environment and Forests (MoEF)

SUBMITTED BY:

M/s Pyramid InfratechPvt. Ltd.

H-38, Ground Floor, M2K White House,

Sector-57, Gurgaon (HR).

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1 INTRODUCTION

1.1 Introduction

M/s Pyramid infratech Pvt. Ltd.has proposed Affordable Group Housing located at village, Badha Sector-86, Distt. Gurgaon, Haryana.

The Project has been recommended by State Expert Appraisal Committee (SEAC). This Project has obtained its Environmental Clearance from State Environmental Impact Assessment Authority (SEIAA), Haryana, with Certain condition.

Status of the Project:
The project is in construction phase and the construction is carried out as per EC conditions.

1.2 Purpose of the Report

As per the "Sub Para (i)" of "Para 10" of EIA Notification 2006, it is stated that *"It shall be mandatory for the project proponent to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the concerned regulatory authority, on 1st June and 1st December of each calendar year"* and as per compliance condition mentioned in Environment Clearance Letter.

The regulatory authorities in this case are SEIAA, Punchkula, MoEF& CC, Chandigarh and HSPCB, Panchkula. Various scheduled Site Visits were conducted by a team of Experts to Monitor Pollution related parameters as defined by CPCB / HSPCB. Samples for water and soil were also collected by NABL/ MoEF approved laboratory for analysis.

Based on the Specific and General Conditions mentioned in the EC Letter, a Compliance Report has been prepared and submitted regularly to the authority.
The Environmental assessment has been carried out to verify:

1) The proposed project has not any adverse effect on the project site as well as it's surrounding.
2) There is compliance with the conditions stipulated in the Environmental Clearance Letter.
3) The Project proponent is implementing the environmental safeguards in true spirit.
4) The non-conformity in the project with respect to the environmental implication of the project.
5) The project proponent is implementing the environmental pollution mitigative measures as suggested in approved Form-1 and Form – 1A, Environmental Management Plan and Building Plan.

1.3 Methodology for Preparation of Report is as follows:

1) Study of EC Letter & Related Documents,
2) Site Visits by a Team of Experts,
3) Monitoring of Environment Parameters, viz. Ambient Air, Water, Noise & Soil by the NABL/Moef labs
4) Interpretation of Monitoring Results.
5) Preparation of half yearly Environmental Compliance Report.

1.4 Generic Structure of Report:

1) Purpose of the Report, explaining the need of a Compliance Report and Methodology Adopted for preparation of Report.
2) Compliance Report, explaining the entire General & specific conditions in the EC Letter and providing details w.r.t. each condition/ guideline.
3) Monitoring Reports & Analysis, showing the level of emission within the project site for various Environment Parameters.
4) Photographs showing status of the project and site.
5) Supporting Documents which are mandatory for the project.

2 ADHERENCE TO SPECIFIC AND GENERAL CONDITIONS

PART A– SPECIFIC CONDITION

I. <u>Construction Phase</u>

S. No.	Conditions of Environmental Clearance	*Status of Compliance*
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 before the start of any construction work at site.	*"Consent for Establish" has been obtained from Haryana State Pollution Control Board under Air and Water Act vide letter no. HSPCB/Consent/:2821216GUSOCTE2861898 on dated 03/03/2016 & validity period is 60 month.*
2.	A first aid room as proposed in the project report shall be provided both during construction and operational phase of the project.	*First aid facilities are being provided during construction phase and will also be provided during operation phase.*
3.	Adequate drinking water and sanitary facilities shall be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by the labours is strictly prohibited. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.	*Adequate drinking water & sanitary facilities have been provided for workers at site and safe disposal of wastewater & solid waste is being done. Wash areas have been constructed for labourers and good hygienic conditions are maintained.*
4.	All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the Project site.	*The top soil excavated is being stored for use in horticulture/ landscape development within the project site during construction activities.*
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 neighbouring communities and should be disposed of after taking necessary precautions for general safety and health aspects of people, only in the approved sites with the approval of competent authority.	*We ensure that the construction material is being properly stored. Also no adverse effect on the neighbouring communities has been founded due to the disposal of construction waste. We have provided all precautions to the workers for disposal of the construction waste.*
6.	Construction spoils, including bituminous materials and other hazardous materials must not be allowed to contaminate watercourses and the dump sites for such materials 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 Haryana State Pollution Control Board.	*We assure that there is no leaching/contamination into ground water or other watercourses due to any hazardous materials, construction spoils or other bituminous materials during the construction phase. We are following the adequate methods of SWM for disposal of construction waste and also have necessary approval of HSPCB for it.*
7.	The diesel generator sets to be used during construction phase shall be of ultra-low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	*Silent DG sets of ultra-low sulphur diesel type are being used at the project site during construction stage and are/will maintains noise and emission within the permissible limits.*
8.	The diesel required for operating DG sets shall be stored in underground tanks and if required clearance from chief controller of explosive shall be taken.	*Agreed and Noted.*
9.	Ambient noise levels shall conform to the residential	*Ambient air & noise monitoring has been conducted at*

	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 confirm stipulated residential standards of CPCB/MoEF.	*project site and the results shows that the noise levels were within the prescribed limits. Lab reports are attached ass* ***Annexure-1.***
10.	Fly ash shall be used as building materials in the construction as per the provision of Fly Ash Notification of September 1999 and amendment as on 27th August 2003.	*Fly ash based construction material is being used for the construction of the building.*
11.	Storm water control and its re-use as per CGWB and BIS standard for various applications should be ensured.	*We have proposed to construct 13 rain water harvesting pits in the project premises for the water conservation.*
12.	Water demand during construction phase shall be reduced by uses of pre-mixed concrete, curing agent and other best practices.	*Premix concrete, curing agent and other best practices are being used to save water during construction phase.*
13.	In view of the server constrains 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 form HUDA/utility provider indicating source of water supply and quantity of water with details of intended use of water- portable and non-portable. Assurance is required for both construction and operation stage separately. It shall be submitted to SEIAA and RO, MoEF, Chandigarh before the start of construction.	*We ensure that no ground water is being used for construction purpose. We have obtained License from HUDA too which is enclosed as* ***Annexure-2.***
14.	Roof must meet prescriptive requirements as per Energy Conservation Building Code by using appropriate thermal insulation material.	*Agreed and complied.*
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 to fulfil the requirement.	*Agreed and complied.*
16.	The approval of competent authority shall be obtained for structural safety of the building due to earthquake, adequacy in fire fighting equipment etc as per National Building Code including protection measures for light etc. If any forest land is involved in the proposed site, clearance under Forest Conservation Act shall be taken from competent authority.	*Agreed and complied.*
17.	Overexploited groundwater and impending severe storage for water supply in the region require the developer to redraw the water and energy conservation plan. Developer should reduce the overall footprint of the proposed development. Project proponent should incorporate water efficiency/saving measures as well as water reuse/recycle within 3 month and before start of construction to the SEIAA, Haryana and RO, MoEF, COI, Chandigarh	*Agreed and complied.*
18.	The project proponent as stated in the proposal shall construct 13 rainwater harvesting pits for recharging the ground water with in project premises. Rain water harvesting pits shall be designed to make provision for	*13 number of RWH pits will be constructed in before coming year.*

	silting chamber and removal of floating matter before entering harvesting pit. Maintenance budget and person responsible for maintenance must be provided. Care shall also be taken that contaminated water do not enter any RHW pit.	
19.	The project proponent shall provide for adequate fire safety measures and equipments as required by Haryana Fire service act, 2009 & instructions issued by 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.	*Adequate fire safety measures and equipment as required by Haryana Fire Service Act 2009 and as per instructions of local concerned departments and authorities will be complied. All necessary NOCs will be obtained within due course of time. NOC Fire safety is attached as* ***Annexure-3.***
20.	The project proponent shall submit assurance from the DHBVN for supply of 3800.14 KVA of power supply before the start of construction. In no case project will be operational solely on generators without any power supply from any external power utility.	*We have obtained assurance from the DHBVN for supply of power before the start of construction. Copy of assurance from the DHBVN is attached as* ***Annexure-4.***
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 the construction. Provisions shall be made for electrical infrastructure in the project area.	*We have been submitted the detailed calculations of power load regularly on timely basis to DHBVN under intimation to SEIAA, Haryana.*
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.	*Noted and complied.*
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.	*We assure to keep the plinth level of the building above the level of the road.*
24.	Construction shall be carried out so that the density of population does not exceed norms approved by the Director General Town and Country Department Haryana.	*Construction will be carried out in such a way that the density of population will not exceed norms approved by the 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 the treated water should be used for construction.	*The affidavit has already submitted at the time grant of EC. We will avoid use of ground water and will only use treated water for construction purpose.*
26.	The project proponent shall not cut any existing tree in the project area and project landscaping plan shall be modified to include the tree in the green area.	*Noted and complied.*
27.	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.	*Noted and complied.*
28.	The project proponent shall construct a sedimentation basin in the lower level of the project site to trap pollutant and other wastes during rains.	*Noted and complied.*
29.	The project proponent shall provide Rasta of proper width and proper strength for each project before the start of construction.	*Noted and complied..*
30.	The project proponent shall ensure that the U-value of the glass is less than 3.177 and maximum solar heat gain coefficient is 0.25 for vertical fenestration.	*Noted and complied.*
31.	The project proponent shall adequately control	*Noted and complied.*

	construction dusts like silica dust, non-silica dusts, wood dust, such dusts shall not spread outside project premises. Project proponent shall provide respiratory protective equipments to all construction workers.	
32.	The project proponent shall develop complete civic infrastructure of Group Housing colony including internal road , 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 line etc. and shall transfer/offer possession of the plot thereafter.	*Noted and complied.*
33.	The project proponent shall provide one refuse area till 24 meter, one till 39 meter each as per National Building Code. The project proponent shall not convert any refuse area in the habitable space and it should not be sold out/commercialized.	*Noted and complied.*
34.	The project proponent shall provide fire control and fire officer for building above 30 meter as per National Building Code.	*Noted and complied.*
35.	The project proponent shall obtain permission of Mines and Geology Department for excavation of soil before the construction	*We have submitted the application from mines and geology department for excavation of soil.*
36.	The project proponent shall seek specific prior approvalfrom concerned local Authority / HUDA regarding provision of water supply, storm drainage and sewerage system including their integration with external services of HUDA / Local authority besides other required services because the licensed area is not contiguous before taking up any construction activity.	*Prior approval from concerned local authority/HUDA will be taken for provision of storm drainage and sewage system.*
37.	The project proponent shall submit the copy of fire safety plan duty approved by Fire Department before the start of construction.	*Agreed and complied.*
38.	The project proponent shall discharge excess of treated waste water/storm water in the public drainage system and shall seek permission of HUDA before the start of construction.	*We are using the treated waste water/storm water for horticulture/water sprinkling for construction purpose, so there is no discharge excess of treated waste water/ storm water.*
39.	The project proponent shall maintain the distance between STP and water supply line.	*Agreed.*
40.	The project proponent shall ensure that the stack height is 6 meter more than the highest tower.	*Noted and complied.*
41.	The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 on Richter scale.	*The building is designed as such it can bear the earthquakes of high magnitudes.*

II. Operation Phase

S. No.	Conditions of Environmental Clearance	*Status of Compliance*
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.	*CTO will be applied and obtained before the operation phase.*
b)	The Sewage Treatment Plant (STP) shall be installed for the treatment of the sewage to the prescribed standards including odour and treated effluent will be recycled to achieve zero exit discharge. The installation of STP shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Haryana before the project is commissioned for operation. Tertiary treatment of waste water is mandatory. The project proponent shall remove not only Ortho-phosphorus but total Phosphorus to the extent of less than 2 mg/litter. Similarly total Nitrogen level shall be less than 2mg/litter in tertiary treated waste water. Discharge of treated sewage shall conform to the norms and standards of CPCB/ HSPCB, whichever is environmentally better. Project proponent shall implement such STP technology which does not require filter backwash. The project shall essentially provide two numbers of STP preferably equivalent to 50% of total capacity depending upon the initial occupancy as the case may be.	*Agreed, STP of adequate capacity will be installed and treated effluent will be recycled to achieve zero discharge during operational phase and treated effluent will conform to the norms and standards of CPCB/HSPCB.*
c)	Separation of the gray and black water should be done by the use of dual plumbing line. Treatment of 100% gray water by decentralized treatment should be done ensuring that the re circulated water should have BOD level less than 5 mg/litre and the recycled water will be used for flushing, gardening and DG sets cooling etc. To achieve zero exit discharge.	*Provision of dual plumbing will be made for separation of black and grey water. Treated waste water will be used for flushing, HVAC water make up and landscaping.*
d)	For disinfections of the treated waste water ultra violate radiation or ozonization should be used.	*Noted.*
e)	Diesel power generating sets proposed as source of backup 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 of ultra low sulphur contents (35 ppm sulphur), instead of low sulphur diesel.	*Yes, we will use ultra-low sulphur diesel and all diesel power generating sets use will be 'enclosed type' to prevent noise and will conform to rules made under EPA 1986, for air and noise emissions standards.*
f)	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 Group Housing Project.	*Noted and we will also take relevant steps to keep noise in permissible limits.*
g)	The project proponent as stated in the proposal should maintain at least 22.03 % 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 particulate matter. The open spaces inside the project should be preferably landscaped and covered with Vegetation/ grass, herbs & shrubs. Only	*Noted and same will be complied during operation phase.*

	locally available plant species shall be used.	
h)	The project proponent shall strive to minimize water in irrigation by minimizing the grass area, using native verity, xeriscaping and mulching, utilizing efficient irrigation system, scheduling irrigation only after checking evapo-transpiration data.	*Same will be compiled with during the operation phase.*
i)	Rain water harvesting for runoff and surface runoff, as per plan submitted should be implemented. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter, oil and greases. The bore well for rain water recharging should be kept at least 5 mts. above the highest ground water table. Care shall be taken that contaminated water do not entry 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 materials or paints which can contaminate rain water. Wire mess and filter should be used wherever required.	*Yes, rain water harvesting and ground water recharging will be practiced. All the ground water levels and its quality will be monitored regularly in consultation with the CGWA. Oil and grease trap will be provided to remove oil and grease from the surface run-off and suspended matter will be removed in a settling tank before its utilization of RWH.*
j)	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	*In the operational phase ground water level and its quality will be regularly monitored.*
k)	A report on energy conservation measures conforming to energy conservations norms finalize by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, "R & U Factors etc" and submit to SEIAA division of environment and forest department, Haryana in three months time.	*We will provide the same as per our approved scheme from MoEF.*
l)	Energy conservation measures like installation of LED for the lighting the areas outside the building should be integral part of the projects design and should be in place before project commissioning. Use of solar panels must be adapted to the maximum energy conversion.	*Noted and same will be complied.*
m)	The project proponent shall use zero ozone depleting potential material in the insulation, refrigeration, air-conditioning and adhesive. The project proponent shall also provide Halon free fire suppression system.	*Noted and same will be complied.*
n)	The solid waste generated should be properly collected and segregated as per requirements of 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 materials.	*Yes, the solid waste will be collected and segregated. The bio-degradable waste will be treated by appropriate technology at the site ear-marked within the project area and non-biodegradable solid waste would be disposed off to municipal landfill sites after recovering recyclable wastes.*
o)	The provision of the solar water heating system shall be as per the norms specified by HAREDA and shall be made operational in each building block.	*Appropriate provisions will be provided as per norms specified by HAREDA.*
p)	The traffic plan and the parking plan proposed by the project proponent 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.	*The traffic and parking plan has been proposed as per the bylaws of the region. It is assured that no parking will be made in open / public spaces.*
q)	The project shall be operationalized only when HUDA/local authority will provide domestic water	*The project will be made operational only after obtaining water supply connection with HUDA. HUDA have assured*

	supply system in the area.	*water supply during operational phase.*
r)	Operation and maintenance of STP, solid waste management and electrical Infrastructure, pollution control measures shall be ensured even after the completion of Project.	*Agreed.*
s)	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 off as per existing E waste Management rules 2011 and batteries management rules 2001. The project proponent should maintain a collection centre for E-waste and it should be disposed of to only registered and authorized dismantler/recycler.	*Agreed and will be complied.*
t)	Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environmental Protection Rule 1986 shall be strictly complied with.	*Standards for discharge of environmental pollutions as enshrined in various schedules of rule 3 of environmental protection rules 1986 will be strictly followed.*
u)	Water supply shall be metered among different users of utilities.	*We will meter different residential units and different utilities in operational phase.*
v)	The project proponent shall ensure that the stack height of DG sets is more than the highest tower and also ensure that emission standards of noise and air are within the CPCB prescribed limits. Noise and Emission level of DG sets are greater than 800 KVA shall be as per the CPCB latest standards for high capacity DG sets.	*Adequate stack height will be provided as per CPCB guidelines and norms. Regular monitoring and measures will be undertaken to ensure that the emission levels are below the prescribed CPCB limits.*
w)	All electric supply exceeds 100 amp, 3 phase shall maintain the power factor between 0.98 lag to 1 at the point of connection.	*Same will be compiled during the operational phase.* *We will maintain 3 phase power factor between 0.98 lag to 1 at the point of connection.*
x)	The project proponent shall use only fresh water for HVAC and DG cooling. Air based HVAC system should be adopted and only treated water shall be used by project proponent for cooling, if it is all needed. The project proponent shall also use evaporating cooling technology and double stage 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 be resorted for conservation of water and power. Coil type cooling DG sets shall be used for saving cooling water consumption for water cooled DG Sets.	*Yes, will use only STP water during operation phase for HVAC and DG cooling & also use evaporative cooling technology and double stage cooling system for HVAC in order to reduce water consumption.*
y)	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.	*Yes, Transformers from certified manufacturers will be used as per the requirements.*
z)	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 condition.	*Stack height and exit velocity will be kept in mind.*
aa)	The project proponent shall provide water sprinkling system in the project area to the suppress the dust in addition to the already suggested mitigation measures	*Adequate dust suppression system will be installed.*

	in the Air Environment Chapter of EMP.	
ab)	The Project Proponent shall ensure proper ventilation and light system in the basement area for comfortable living of human being and shall ensure that number of Air Changes per Hour (ACH) in basement never falls below 15.In case of Emergency Capacity for increasing ACH to th extent of 30 must be provided by the project proponent.	*We are ensure that the proper ventilation and light system in the basement area will be comfortable for living of human being and also assure that the number of Air changes per Hour (ACH) in basement never falls below 15. Same will be complied in operation phase.*
ac)	The project proponent shall ensure drinking/ domestic water supply as per prescribed water supply as per prescribed standards till treated water supply is made available by HUDA.	*We are ensure for comply it.*
ad)	The project proponent shall install solar panel for energy conservation.	*Agreed.*

PART- B: GENERAL CONDITIONS

S. No.	Conditions of Environmental Clearance	*Status of Compliance*
[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 compiled with in letter and spirit. In case of contradiction between two or more documents or any point, the most environmentally friendly commitment shall be taken as commitment by the project proponent.	*Environmental Safeguards as prescribed by the ministry of environment and forests in the clearance document shall be implemented in true spirit both during the construction and operation phase.*
[ii]	The Project Proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copy as well as by e-mail) to the Northern Regional Office of MoEF, the respective Zonal Office of CPCB, HSPCB and SEIAA Haryana.	*We will regularly submit six monthly monitoring reports to the SEIAA and the regional office, MoEF. GOI, Northern region 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 months, the project proponent shall conduct environmental audit, and shall take corrective measures, If required, without delay.	*The environmental parameters will be monitored as per the guidelines.*
[iv]	The SEIAA, Haryana and reserve the right to add additional safeguards 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.	*Agreed and noted for compliance.*
[v]	The Project proponent shall not violate any judicial orders /pronouncements issued by court/Tribunal.	*We will respect and not to violate any judicial orders/ pronouncements issued by the Court / Tribunal.*
[vi]	All other statutory clearance such as approval 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 statutory clearance will be obtained. NOC Forest is enclosed as* ***Annexure-5.***
[vii]	The project proponent should inform the public that the project has been in accorded Environmental clearance by	*Same has been informed in local newspapers that are widely circulated in the region and copy of the same*

S. No.	Conditions of Environmental Clearance	*Status of Compliance*
	SEIAA and copies of the clearance letter are available with the State Pollution Control Board & SEIAA. This should be advertised within 7 days from date of issue of clearance letter at least in two local newspapers that are widely circulated in the region and copy of the same should be forwarded to SEIAA Haryana. A copy of environmental clearance conditions shall also be put on the project proponent's web site for public awareness.	*has been forwarded to SEIAA, Haryana. A copy of environment clearance conditions also has been displayed on PP's website for public awareness.*
[viii]	Under the provision of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponents if it was found that construction of the projects has been started before obtaining prior Environmental Clearance.	*No construction has been started before obtaining prior Environmental Clearance and EC has been granted vide letter No. SEIAA/HR/2016/25 Dated- 29-22-10-2016.*
[ix]	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, If preferred with in a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	*Agreed.*
[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.	*Same will be complied.*
[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 report should be submitted to the SEIAA/RO MoEF, GoI under rules prescribed for Environmental Audit.	*Noted and will be complied.*
[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.	*Noted.*
[xiii]	The project proponent shall ensure that no vehicles during construction/ operation phase enter the project premises without valid 'Pollution Under Control' certificate from competent Authority.	*Agreed.*
[xiv]	The project proponent is responsible for compliance of all conditions in Environment Condition letter and project proponent can not absolve himself/herself of the responsibility by shifting it to any contractor engaged by the project proponent.	*Noted.*
[xv]	The project proponent shall seek fresh Environment Clearance if at any stage there is change in the planning of the proposed project.	*Agreed*
[xvi]	Besides the developer/applicant, the responsibility to ensure the compliance of Environmental safeguards/ conditions imposed in the Environmental Clearance letter shall also lie on the license/ licenses in whose name/names the license/CLU has been granted by the Town & Country Planning Department, Haryana.	*Agreed.*
[xvii]	The Proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their websites and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the	*Agreed.*

S. No.	Conditions of Environmental Clearance	*Status of Compliance*
	SPCB. The criteria pollutant levels namely; PM 2.5, PM 10, SOX, NOX, Ozone, lead, CO, Benzene ammonia, benzopyrine, arsenic and Nickel.(Ambient levels as well as stack emissions) or critical sectoral parameters, indicating for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	
[xviii]	The environmental statement for each financial year ending 31st March in Form-v as is mandated to be submitted by the project proponent to the HSPCB Panchkula as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alone with the status of compliance of the EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	*Environment Statement will be submitted to HSPCB within prescribed time frame and same will also be displayed on the website of the company.*
[xix]	The Project Proponent shall conduct environmental audit at every three 12months interval and thereafter corrected measures shall be taken without any delay. Details of Environmental audit and corrective measures shall be submitted in the monitoring report.	*Same will be complied.*
[xx]	Corporate Environment and Social Responsibility (CSER) shall be laid down by the project proponent (2% shall be earmarked) as per guideline of MoEF, GOI Office Memorandum No. J-11013/14/2006-IA.II (I) dated 27.02.2014.A separate audit statement shall be submitted in the compliance. Environment related work proposed to be executing under the responsibility shall be undertaken simultaneously. The project proponent shall be select and prepare the list of work for implementation of CSER of its own choice and shall submit the same before the start of construction.	*Noted.*

3 DETAILS OF ENVIRONMENTAL MONITORING

3.1 AMBIENT AIR QUALITY MONITORING

3.1.1 Ambient Air Quality Monitoring Stations

Ambient air quality monitoring has been carried out at 3 locations; one being nears the main gate, second one is centre of the project and third one is back side of the project. This will enable to have a comparative analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The locations of the ambient air quality monitoring stations are given in **Table 3.1**.

Table 3.1 Details of Ambient Air Quality Monitoring Stations

S. No.	Location Code	Location Name/ Description
1	**AAQ-1**	Near Main gate
2	**AAQ-2**	Centre of project
3.	**AAQ-3**	Back Side of the Project

AAQ-1: Near Main Gate:

The sampler was placed near main gate of building and was free from any obstructions. Surroundings of the sampling site represent residential environmental setting

AAQ-2: Centre of Project:

The sampler was placed at centre of project and was free from any obstructions. Surroundings of the sampling site represent residential environmental setting**.**

AAQ-3: Back Side of the Project:

The sampler was placed at back side of the project and was free from any obstructions. Surroundings of the sampling site represent residential environmental setting.

3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter(PM2.5)
- Particulate Matter (PM_{10})
- Sulphur Dioxide (SO_2)
- Oxides of Nitrogen (NO_x)
- Carbon Monoxide (CO)

The duration of sampling of PM $_{2.5}$, PM_{10}, SO_2 and NOx was 24 hourly continuous sampling per day and CO was sampled for 8 hours continuous, thrice in 24 hour duration monitoring. The

monitoring was conducted for one day at each location. This is to allow a comparison with the National Ambient Air Quality Standards.

The air samples were analyzed as per standard methods specified by Central Pollution Control Board (CPCB) and IS: 5182. The techniques used for ambient air quality monitoring and minimum detectable levels are given in **Table 3.2**.

Fine Particulate Sampler instruments have been used for monitoring Particulate Matter 2.5 (PM2.5 i.e. <2.5 microns), and Respirable Dust Sampler was used for sampling Respirable fraction (<10 microns), gaseous pollutants like SO2, and NOx. Bladder and Aspirator bags were used for collection Carbon monoxide samples. Gas Chromatography techniques have been used for the estimation of CO.

Table 3.2 Techniques used for Ambient Air Quality Monitoring

S. No.	Parameter	Technique	Technical Protocol
1	Particulate Matter 2.5	Fine Particulate Sampler, Gravimetric Method	#SOP No. VEL/SOP/01, Section No. SP 63
2	Particulate Matter 10	Respirable Dust Sampler, with cyclone separator, Gravimetric Method	IS-5182 (Part-23)
3	Sulphur dioxide	Modified West and Gaeke	IS-5182 (Part- II)
4	Oxides of Nitrogen	Jacob &Hochheiser	IS-5182 (Part-VI)
5	Carbon Monoxide	Gas Chromatography	IS-5182 (Part-X)

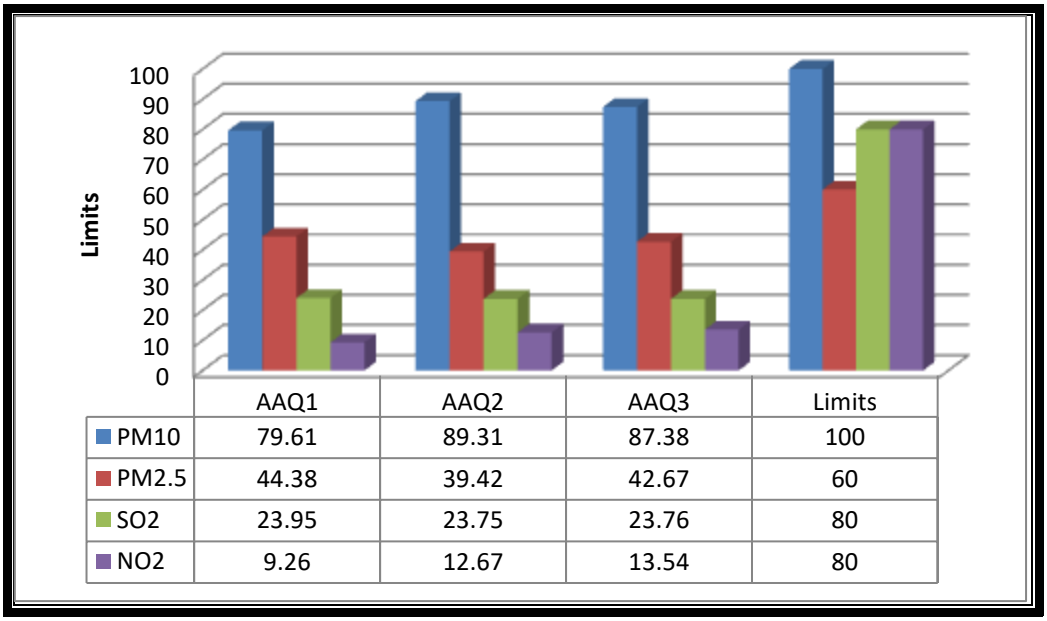
3.1.3 Ambient Air Quality Monitoring Results

The detailed on-site monitoring results of PM $_{2.5}$, PM $_{10}$, SO_2, NO_x and CO are presented in **Table 3.3**.

Table 3.3 Ambient Air Quality Monitoring Results

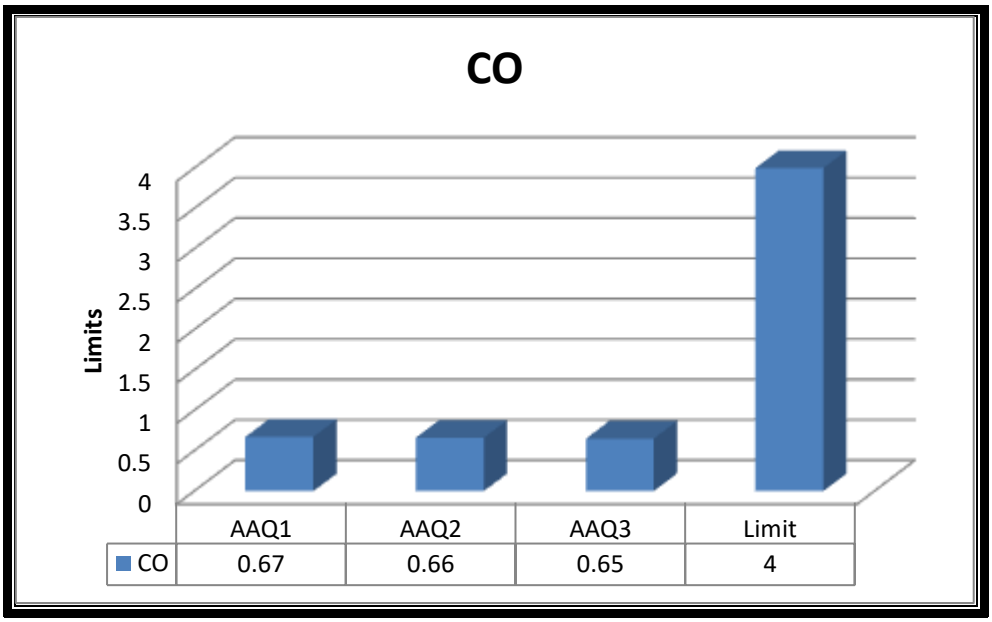
PARAMETERS	AAQ1	AAQ2	AAQ3	NAAQS*
Particulate Matter (PM10)	**79.61**	**89.31**	**87.38**	**60**
Particulate Matter(PM2.5)	**44.38**	**39.42**	**42.67**	**100**
Nitrogen Dioxide(NO2)	**23.95**	**23.75**	**23.76**	**80**
Sulphur Dioxide(SO2)	**9.26**	**12.67**	**13.54**	**80**
Carbon Monoxide(CO)	**0.67**	**0.66**	**0.65**	**4**

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009



	AAQ1	AAQ2	AAQ3	Limits
PM10	79.61	89.31	87.38	100
PM2.5	44.38	39.42	42.67	60
SO2	23.95	23.75	23.76	80
NO2	9.26	12.67	13.54	80

Figure 3.1 Location-wise Variation of Ambient Air Quality



	AAQ1	AAQ2	AAQ3	Limit
CO	0.67	0.66	0.65	4

Figure 3.2 Location-wise Variation of CO in Ambient Air Quality

3.1.4 Discussion on Ambient Air Quality in the Study Area

PM_{10} and PM $_{2.5}$ levels at the project site are within the permissible limit of 100 µg/m^3 and 60 µg/m^3 respectively (for residential, rural and other areas as stipulated in the National Ambient Air Quality Standards). SO_2, NOx and CO was observed within the corresponding stipulated limits (Limit for SO_2 and NOx: 80 µg/m^3 and limit for CO: 4.0µg/m^3) at all monitoring locations. Station wise variation of ambient air quality parameters has been pictorially shown in **Figure 3.1 & 3.2.**

3.2 AMBIENT NOISE MONITORING

3.2.1 Ambient Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels in near main gate due to various construction allied activities and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at 3 locations at the boundary of the project site as given in **Table 3.4**.

Table 3.4 Details of Ambient Noise Monitoring Stations

Sr. No.	Location Code	Location Name	Description
1.	**NI**	Near Main Gate	Residential
2.	**N2**	Centre of Project	Residential
3.	**N3**	Backside of the Project	Residential

3.2.2 Methodology of Noise Monitoring

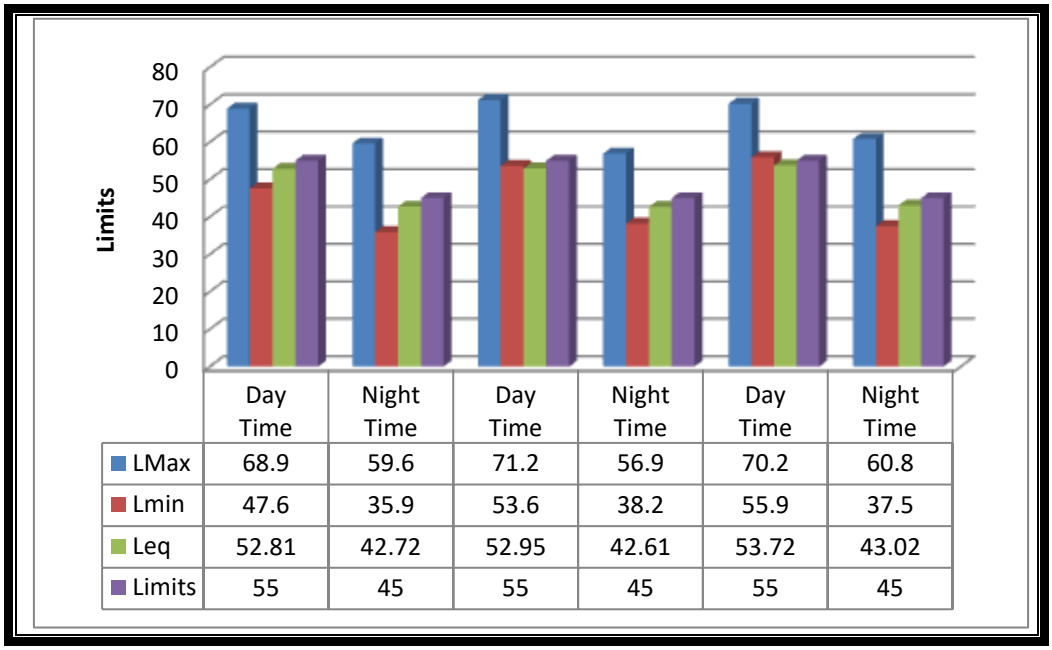
Noise levels were measured using sound level meter. Noise level monitoring was carried out continuously for 24-hours with one hour interval starting at 06:00 hrs to 06:00 hrs next day. The noise levels were monitored on working days only. During each hour Leq were directly computed by the instrument based on the sound pressure levels. Monitoring was carried out at 'A' response and fast mode.

3.2.3 Ambient Noise Monitoring Results

The location wise ambient noise monitoring results is summarized in **Table 3.5**. The location-wise variation of noise levels are graphically presented in **Figure 3.3**.

Table 3.5 Ambient Noise Monitoring Results

	Location Code					
	N1		N2		N3	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
L_{max}	68.9	59.6	71.2	56.9	70.2	60.8
L_{min}	47.6	35.9	53.6	38.2	55.9	37.5
Leq	52.81	42.72	52.95	42.61	53.72	43.02
CPCB Limits in dB(A) Leq (Residential Area)	55.0	45.0	55.0	45.0	55.0	45.0



	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
LMax	68.9	59.6	71.2	56.9	70.2	60.8
Lmin	47.6	35.9	53.6	38.2	55.9	37.5
Leq	52.81	42.72	52.95	42.61	53.72	43.02
Limits	55	45	55	45	55	45

Figure 3.3 Location-wise Variation of Ambient Noise Levels

3.2.4 Discussion on Ambient Noise Levels in the Study Area

Day Time Noise Levels (L_{day}):

The day time noise level at all the locations were found to within limits prescribed for residential area i.e. 55 db (A).

Night Time Noise Levels (L_{night}):

The night time noise level at all the locations were found to within limit prescribed for residential area i.e. 45 dB (A).

3.3 DG Noise Monitoring

Table 3.6 Details of DG Noise Monitoring Stations

S. No.	Location	Capacity
1.	DG Set Area	DG Set No.1 (125 KVA)

Table 3.7 DG Noise Monitoring Results

S. No.	Parameters	Protocol	Open the canopy of DG Set Results dB(A)	Close the canopy of DG Set Result Db(A) (0.5 M Distance)	Insertion Loss
1.	L_{eq}	Indian standard :9989	**98.23**	**73.08**	**25.15**
2.	CPCB Limit in dB(*A) Leq	-	---	75.00	25.00

Note- *A “decibel “is a unit in which noise is measured

3.4 Stack Emission Air Monitoring

Table 3.9Details of Stack Emission Monitoring Stations

S. No.	Location Code	Location Name/ Description
1.	DG1	D.G. Set Area - 125 KVA

Table 3.10 Stack Emission Monitoring Results

Location- DG-1

S. No.	Parameters	Protocol	Units	Results	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	gm/Kw-hr	**0.07**	≤0.2
2.	Nitrogen Dioxide (as NO_2)	IS 11255 (P-7) Colorimetric Method	gm/Kw-hr	**1.36**	≤4.0
3.	#Total Hydrocarbon as Methane	By Gas Chromatography Method	gm/Kw-hr	**0.52**	
4.	Carbon Monoxide (as CO)	*SOP No. VEL/SOP/01, Section No. SP 74	gm/Kw-hr	**0.75**	≤3.5

Note: # this parameter is not covered under our NABL Scope
* SOP -Laboratory Standard operating procedure.

3.5 WATER QUALITY MONITORING

3.5.1 Water Quality Monitoring Locations

Keeping in view the importance of water as an important source to the local population, sample of water was collected from the project site for the assessment of impacts of the project on the water quality.

Water sample was collected from the Tank Installed at the project site form the construction and drinking purpose. The sample was analyzed for various parameters to compare with the standards for ground water as per IS: 10500 for ground water sources. The details of water sampling locations are given in **Table 3.12**.

Table3.12 Details of Water Quality Monitoring Station

S. No.	Location Code	Location Description
1.	**Water sample 2**	Project Site

3.5.2 Methodology of water Quality Monitoring

Sampling of water was carried out on **March 2020.** Samples were collected as grab sample and sampling forms are filled in as per the sampling plan. The preservative sample were properly added to preserve as per standard operating procedures (SOP) and stored immediately in ice boxes, which were ensured for appropriate temperatures. Sample for chemical analysis was collected in polyethylene carboys. Sample collected for metal content were acidified to <2 pH with 1 ml HNO_3. A sample for bacteriological analysis was collected in sterilized glass bottles.

Soon after the completion of sampling, chain of custody sheets for the samples are filled in and then they were transported to laboratory for further analysis. Proper care was taken during packing and transportation of samples. All the samples reached the central laboratory within the holding times for different parameters. After ensuring the same the samples were forwarded immediately for analysis.

The samples were analyzed as per the standard procedures specified in 'Standard Methods for the Examination of Water and Wastewater' published by American Public Health Association (APHA) and CPCB. The analytical techniques and the test methods adopted for testing of water are given in **Table 3.13, 3.14**.

3.5.3 Water Quality Results

The detailed water quality monitoring results are presented in **Table 3.13,**

Table 3.14 Drinking Water Quality Monitoring Results

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 ^{0}C)	APHA ,4500-H^+ B Electrometric Method	7.62	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephlelometric Method	*BDL (**DL 0. 1 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA , 2340 C, EDTA Titrimetric Method	81.0	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	20.85	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA , 2320 B, Titrimetric Method	57.61	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl^- B, Argentometric Method	35.12	mg/l	250	1000
10.	#Cyanide as CN	APHA , 4500 CN^- D	*BDL(**DL 0.05 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	7.02	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	125.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA , 4500 E, Turbidimetric Method	6.24	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F^- D, SPADNS Method	0.25	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) ,Chromotropic Method	0.46	mg/l	45	No Relaxation
16.	Iron as Fe	APHA , 3500-Fe B 1,10 Phenanthroline Method	0.10	mg/l	0.3	No relaxation
17.	#Aluminium as Al	APHA , 3111 B, Direct Nitrous Oxide, Acetylene Flame Method	*BDL(**DL 0.02mg/l)	mg/l	0.03	0.2
18.	Boron	APHA, 4500B C, Carmine Method	*BDL(**DL 0.01mg/l)	mg/l	0.5	1
19.	Total Chromium as Cr	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	0.05	No Relaxation
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
21.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.05mg/l)	mg/l	0.5	No Relaxation
22.	Anionic Detergents as	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0

	MBAS					
23.	Zinc as Zn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	5	15
24.	Copper as Cu	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.01mg/l)	mg/l	0.01	No Relaxation
28.	#Selenium as Se	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	#Arsenic as As	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	#Mercury as Hg	APHA , 3112 B, Cold Vapor Method	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622,1981	Absent	MPN/100 ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622,1981	Absent	MPN/100 ml	Shall not be detectable in any 100 ml sample	

Note: - *BDL-Below Detection Limit, **DL- Detection Limit
#these parameter are not covered in our NABL scope.

3.5.4 Discussion on Ground Water Quality in the Study Area

The water quality in the project area is observed to be alkaline in nature with total alkalinity reaching up 57.61mg/L at project against desirable limit of 200 mg/l.Total dissolved solids in the water.is. 125.00mg/L at project site against prescribed limit of 500 mg/L. However, remaining parameters are within the CPCB prescribed limits.

3.4 SOIL MONITORING

3.4.1 Soil Monitoring Locations

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and also predict impacts, which have arisen due to execution of various constructions allied activities. Accordingly, a study of assessment of the soil quality has been carried out.

To assess impacts of ongoing project activities on the soil in the area, the Physico-chemical characteristics of soils were examined by obtaining soil samples from selected points and analysis of the same. Single sample of soil was collected from the project site for studying soil characteristics, the location of which is listed in **Table 3.15**.

Table 3.15 Details of Soil Quality Monitoring Location

S. No.	Location Code	Location Name/ Description
1.	**S1**	Project Site

3.4.2 Methodology of Soil Monitoring

The sampling has been done in line with IS: 2720 & Methods of Soil Analysis, Part-1, 2nd edition, 1986 of American Society for Agronomy and Soil Science Society of America. The homogenized samples were analyzed for physical and chemical characteristics (physical, chemical and heavy metal concentrations). The soil samples were collected in the month of **March 20020**

The samples have been analyzed as per the established scientific methods for Physico-chemical parameters.

The heavy metals have been analyzed by using Atomic Absorption Spectrophotometer.

3.4.3 Soil Monitoring Results

Single sample of soil is collected from the site to check the quality of soil of the study area .The Physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample, are presented in **Table 3.9**.

Table 3.9 Physico-Chemical Characteristics of Soil in the Study Area

S. No.	Parameter	Test-Method	Result	Unit
1.	**pH (at 25 ^{0}C)**	IS : 2720 (P-26) by pH Meter	7.85	--
2.	**Conductivity**	IS:14767 by Conductivity meter	0.325	mS/cm
3.	**Soil Texture**	IS : 2720 (P-22, RA2003)	Silty Loam	--
4.	**Color**	*SOP , SP-78,Issue No.-01& Issue Date-14/02/2013	Yellowish Brown	--
5.	**Water holding capacity**	*SOP , SP-81,Issue No.-01& Issue Date-14/02/2013	36.51	%
6.	**Bulk density**	*SOP , SP-80,Issue No.-01& Issue Date-14/02/2013	1.52	gm/cc
7.	**Chloride as Cl**	*SOP , SP-85,Issue No.-01& Issue Date-14/02/2013	76.95	mg/100g
8.	**Calcium as Ca**	*SOP , SP-82,Issue No.-01& Issue Date-14/02/2013	98.37	mg/100g
9.	**Sodium as Na**	*SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	61.57	mg/kg
10.	**Potassium as K**	*SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	125.34	kg/hec.
11.	**Organic Matter**	IS:2720 (P-22) Titrimetric Method	0.41	%
12.	**Magnesium as Mg**	*SOP , SP-83,Issue No.-01& Issue Date-14/02/2013	12.64	mg/100g
13.	**Available Nitrogen as N**	IS:14684 Distillation Method	243.18	kg./hec.
14.	**Available Phosphorus**	*SOP , SP-86,Issue No.-01& Issue Date-14/02/2013	42.63	kg./hec.
15.	**Zinc (as Zn)**	USEPA 3050B	34.67	mg/kg
16.	**Manganese (as Mn)**	USEPA 3050B	42.72	mg/kg
17.	**Lead (as Pb)**	USEPA 3050B	1.16	mg/kg
18.	**Cadmium (as Cd)**	USEPA 3050B	0.51	mg/kg
19.	**#Chromium (as Cr)**	USEPA 3050B	1.52	mg/kg
20.	**Copper (as Cu)**	USEPA 3050B	3.81	mg/kg

*SOP-Laboratory standard operating procedure. Chromium- this parameter is not covered our nabl scope.

3.4.4 Discussion on Soil Characteristics in the Study Area

The soil in study area is characterized by moderate organic content. The soil quality in the project area has not been affected by the project activities.

3.7. Site Photograph



Ambient Air Monitoring



Ambient Noise Monitoring



DG Noise Monitoring



Soil Sampling



Drinking Water Sampling

Vardan EnviroLab
Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
Branch Off: Plot No. 24 & 25, Narayan Vihar, Block-B, Jaipur - 302035 (Rajasthan)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	**VEL/PI/A/04**	**Report No.:**	**VEL/A/2005/16/004**
Name & Address of the Party	**M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**NIL**
		Reporting Date:	**20/05/2020**
		Period of Analysis:	**16/05/2020 to 19/05/2020**
		Receipt Date:	**16/05/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	**Near Main Gate**
Sample collected by	:	Vardan Enviro Lab Representative
Sampling Equipment used	:	RDS & FPS
Instrument Code	:	VEL/RDS/10FPS/10
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	15/05/2020 to 16/05/2020
Time of Monitoring	:	09:30 AM to 09:30 AM
Ambient Temperature (°C)	:	Min. 29.0°C, Max. 37.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	IS : 5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No	Parameters	Test Method	Results	Units	Limit as per CPCB
1.	**Particulate Matter (as PM – 10)**	IS:5182 (P-23), Gravimetric Method, RA:2006	**79.61**	$\mu g/m^3$	100
2.	**Particulate Matter (as PM – 2.5)**	SOP No. VEL/SOP/01, Section No. SP 63:2013	**44.38**	$\mu g/m^3$	60
3.	**Nitrogen Dioxide (as NO_2)**	IS: 5182 (P-6), Jacob & Hochheiser, RA:2006	**23.95**	$\mu g/m^3$	80
4.	**Sulphur Dioxide (as SO_2)**	IS: 5182 (P-2), Modified West and Gaeke, RA:2012	**9.26**	$\mu g/m^3$	80
5.	**Carbon Monoxide (as CO)**	IS: 5182 (P-10), Gas Chromatography, RA:2003	**0.67**	mg/m^3	4

*BDL- Below Detection Limit, **DL- Detection Limit

MEENU KAUSHIK
SR. ANALYST
(Tested By)

VARDAN ENVIRO LAB
(Approved By)
Gaurav Chauhan
QUALITY MANAGER

NOTE: a)The results listed refer only to the tested samples & applicable parameters
b) Total liabilities of our lab will be restricted to the invoice amount only
c) The sample will be destroyed after retention time unless otherwise specified
d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Vardan EnviroLab
Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
Branch Off: Plot No. 24 & 25, Narayan Vihar, Block-B, Jaipur - 302035 (Rajasthan)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	**VEL/PI/A/05**	**Report No.:**	**VEL/A/2005/16/005**
Name & Address of the Party	**M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**NIL**
		Reporting Date:	**20/05/2020**
		Period of Analysis:	**16/05/2020 to 19/05/2020**
		Receipt Date:	**16/05/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	**Centre of the Project**
Sample collected by	:	Vardan Enviro Lab Representative
Sampling Equipment used	:	RDS & FPS
Instrument Code	:	VEL/RDS/11FPS/11
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	15/05/2020 to 16/05/2020
Time of Monitoring	:	09:45 AM to 09:45 AM
Ambient Temperature (°C)	:	Min. 29.0°C, Max. 37.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	IS : 5182
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No	Parameters	Test Method	Results	Units	Limit as per CPCB
1.	**Particulate Matter (as PM – 10)**	IS:5182 (P-23), Gravimetric Method, RA:2006	**89.31**	$\mu g/m^3$	100
2.	**Particulate Matter (as PM – 2.5)**	SOP No. VEL/SOP/01, Section No. SP 63:2013	**39.42**	$\mu g/m^3$	60
3.	**Nitrogen Dioxide (as NO_2)**	IS: 5182 (P-6), Jacob & Hochheiser, RA:2006	**23.75**	$\mu g/m^3$	80
4.	**Sulphur Dioxide (as SO_2)**	IS: 5182 (P-2), Modified West and Gaeke, RA:2012	**12.67**	$\mu g/m^3$	80
5.	**Carbon Monoxide (as CO)**	IS: 5182 (P-10), Gas Chromatography, RA:2003	**0.66**	mg/m^3	4

*BDL- Below Detection Limit, **DL- Detection Limit

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Gaurav Chauhan
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Test Report

Sample Number:	**VEL/PI/A/06**	**Report No.:**	**VEL/A/2005/16/006**
Name & Address of the Party	**M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**NIL**
		Reporting Date:	**20/05/2020**
		Period of Analysis:	**16/05/2020 to 19/05/2020**
		Receipt Date:	**16/05/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sampling Location	:	**Backside of the Project**
Sample collected by	:	Vardan Enviro Lab Representative
Sampling Equipment used	:	RDS & FPS
Instrument Code	:	VEL/RDS/12FPS/12
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	15/05/2020 to 16/05/2020
Time of Monitoring	:	10:00 AM to 10:00 AM
Ambient Temperature (°C)	:	Min. 29.0°C, Max. 37.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	**IS : 5182**
Sampling Duration	:	24 Hrs.
Parameter Required	:	As per work order

S.No	Parameters	Test Method	Results	Units	Limit as per CPCB
1.	**Particulate Matter (as PM – 10)**	IS:5182 (P-23), Gravimetric Method, RA:2006	**87.38**	$\mu g/m^3$	100
2.	**Particulate Matter (as PM – 2.5)**	SOP No. VEL/SOP/01, Section No. SP 63:2013	**42.67**	$\mu g/m^3$	60
3.	**Nitrogen Dioxide (as NO_2)**	IS: 5182 (P-6), Jacob & Hochheiser, RA:2006	**23.76**	$\mu g/m^3$	80
4.	**Sulphur Dioxide (as SO_2)**	IS: 5182 (P-2), Modified West and Gaeke, RA:2012	**13.54**	$\mu g/m^3$	80
5.	**Carbon Monoxide (as CO)**	IS: 5182 (P-10), Gas Chromatography, RA:2003	**0.65**	mg/m^3	4

*BDL- Below Detection Limit, **DL- Detection Limit

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Test Report

Sample Number:	**VEL/PI/N/04**	**Report No.:**	**VEL/N/2003/16/004**
Name & Address of the Party:	**M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**NIL**
		Reporting Date:	**20/05/2020**
		Period of Analysis:	**16/05/2020 to 19/05/2020**
Sample Description:	**AMBIENT NOISE LEVEL MONITORING**	**Receipt Date:**	**16/05/2020**

General Information:-

Sampling Location	:	**Near Main Gate**
Sample collected by	:	Vardan EnviroLab Representative
Sampling Equipment used	:	**Sound Level Meter**
Instrument Code	:	VEL/SLM/08
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	**15/05/2020 to 16/05/2020**
Time of Monitoring	:	**06:00 AM to 06:00AM**
Ambient Temperature (°C)	:	Min. 28.0°C, Max. 37.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB
Sampling Duration	:	24 Hours
Parameter Required	:	Lmax, Lmin, & Leq

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS 9989	68.9	59.6	dB(A)
2.	L_{min}	IS 9989	47.6	35.9	dB(A)
3.	L_{eq}	IS 9989	52.81	42.72	dB(A)
4.	**CPCB Limits in dB(A*) Leq (Residential Area)**	-	**55.00**	**45.00**	**dB(A)**

Note: *A "decibel" is a unit in which noise is measured.

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SR. ANALYST
(Tested By)

VARDAN ENVIRONET
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Test Report

Sample Number: VEL/PI/N/05
Name & Address of the Party: M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)

Report No.: VEL/N/2003/16/005
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 20/05/2020
Period of Analysis: 16/05/2020 to 19/05/2020
Receipt Date: 16/05/2020

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sampling Location	:	**Centre of the Project**
Sample collected by	:	Vardan EnviroLab Representative
Sampling Equipment used	:	**Sound Level Meter**
Instrument Code	:	VEL/SLM/09
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	**15/05/2020 to 16/05/2020**
Time of Monitoring	:	**06:00 AM to 06:00AM**
Ambient Temperature (°C)	:	Min. 28.0°C, Max. 37.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB
Sampling Duration	:	24 Hours
Parameter Required	:	Lmax, Lmin, & Leq

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS 9989	71.2	56.9	dB(A)
2.	L_{min}	IS 9989	53.6	38.2	dB(A)
3.	L_{eq}	IS 9989	52.95	42.61	dB(A)
4.	**CPCB Limits in dB(A*) Leq (Residential Area)**	-	**55.00**	**45.00**	**dB(A)**

Note: *A "decibel" is a unit in which noise is measured.

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Test Report

Sample Number: VEL/PI/N/06
Name & Address of the Party: M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)

Report No.: VEL/N/2005/16/006
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 20/05/2020
Period of Analysis: 16/05/2020 to 19/05/2020
Receipt Date: 16/05/2020

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sampling Location	:	**Backside of the Project**
Sample collected by	:	Vardan EnviroLab Representative
Sampling Equipment used	:	**Sound Level Meter**
Instrument Code	:	VEL/SLM/10
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	**15/05/2020 to 16/05/2020**
Time of Monitoring	:	**06:00 AM to 06:00AM**
Ambient Temperature (°C)	:	Min. 28.0°C, Max. 37.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB
Sampling Duration	:	24 Hours
Parameter Required	:	Lmax, Lmin, & Leq

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS 9989	70.2	60.8	dB(A)
2.	L_{min}	IS 9989	55.9	37.5	dB(A)
3.	L_{eq}	IS 9989	53.72	43.02	dB(A)
4.	**CPCB Limits in dB(A*) Leq (Residential Area)**	-	**55.00**	**45.00**	**dB(A)**

Note: *A "decibel" is a unit in which noise is measured.

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Test Report

Sample Number:	**VEL/PI/N/02**	**Report No.:**	**VEL/N/2005/16/002**
Name & Address of Party:	**M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**Nil**
		Reporting Date:	**20/05/2020**
		Period of Analysis:	**16/05/2020 to 19/05/2020**
		Receipt Date:	**16/05/2020**

Sample Description : **DG NOISE**

General Information:-

Sampling Location	:	DG Set Area (125 KVA)
Sample Collected by	:	VEL Representative
Sampling Equipment used	:	SLM
Instrument Code	:	VEL/SLM/06
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	**15/05/2020**
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	IS-9989
Sampling duration (Minutes)	:	30 Min
Parameter Required	:	Leq. Insertion Loss

S. No.	Parameters	Test Method	Open the Canopy of D.G Set Result dB(A)	Close the Canopy of D.G Set (1.0 mtr Distance) Result dB(A)	Insertion Loss
1.	Leq	CPCB Guidelines & Indian Standard:9989	98.23	73.08	25.15
2.	CPCB Limit in Leq dB(A)	-	---	75.00	25.00

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Test Report

Sample Number:	**VEL/PI/W/02**	**Report No.:**	**VEL/W/2005/16/002**
Name & Address of the Project:	**M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**NIL**
		Reporting Date:	**20/05/2020**
		Period of Analysis:	**16/05/2020 to 20/05/2020**
Sample Description:	**Drinking Water Sample**	**Receipt Date:**	**16/05/2020**
Sample Location:	**Project Office**	**Sampling Date:**	**15/05/2020**
Sample Collected by:	**Vardan Enviro Lab Representative**	**Sampling Quantity:**	**2.0 Ltr.**
Sampling & Analysis Protocol:	**IS 10500, 2012**	**Sampling Type:**	**--**
		Preservation:	**Refrigerated**

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 ^{0}C)	APHA 4500 H+B Electrometric Method:2017	7.62	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 2120 B Visual Comparison Metod:2017	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 2130 B Nephelometric Method:2017	*BDL (**DL 0. 1 NTU)	NTU	1	5
4.	Odour	APHA 2150 B Threshold Odour Method:2017	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Flavor Threshold Test Method:2017	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA , 2340 C, EDTA Titrimetric Method:2017	81.0	mg/l	200	600
7.	Calcium as Ca	APHA 3500 Ca B EDTA Titrimetric Method:2017	20.85	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 2320 B Titration Method:2017	57.61	mg/l	200	600
9.	Chloride as Cl	APHA 4500 Cl B Argentometric Method:2017	35.12	mg/l	250	1000
10.	Cyanide as CN	APHA, 3500 Cl B Iodometric Method:2017	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 3500 Mg B Calculation Method:2017	7.04	mg/l	30	100
12.	Total Dissolved Solids	APHA 2540 C Gravimetric Method:2017	125.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA , 500 E Turbidimetric Method:2017	6.24	mg/l	200	400
14.	Fluoride as F	APHA 4500 F D Spands Method:2017	0.25	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS: 3025 (P-34), Chromotropic Method, RA:2003	0.46	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 3500 Fe B 1,10 Phenanthroline Method:2017	0.10	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA, 3111 D Direct Nitrousoxide Acetylene Flame Method:2017	*BDL(**DL 0.02 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA, 4500 C Carmine Mehthod:2017	*BDL(**DL 0.1 mg/l)	mg/l	0.5	1
19.	Total Chromium as Cr	APHA, 3111 B Direct Acetylene Flame	*BDL(**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

MEENU KAUSHIK
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Test Report

Sample No.: **VEL/PI/W/02** | Report No: **VEL/W/2005/16/002**

S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method:2017	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
21.	Mineral Oil	APHA 5520 C Partition Infra-Red:2017	*BDL(**DL 0.5mg/l)	mg/l	0.5	No Relaxation
22.	Anionic Detergents as MBAS	APHA, 5540 C MBAS Method:2017	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA , 3111 B, Direct Acetylene Flame Method:2017	*BDL(**DL0.03 mg/l)	mg/l	5	15
24.	Copper as Cu	APHA, 3111 B, Direct Acetylene Flame Method:2017	*BDL(**DL0.03 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA, 3111 B, Direct Acetylene Flame Method:2017	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 3111 B, Direct Acetylene Flame Method:2017	*BDL(**DL0.003 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 3111 B, Direct Acetylene Flame Method:2017	*BDL(**DL0.01mg/l)	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA , 3114 B, AAS Method	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA , 3114 B, AAS Method	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	Mercury (as Hg)	APHA, 3112 B, Cold Vapor AAS Method:2017	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185:2009, RA:2016	Absent	cfu/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 15185:2009, RA:2016	Absent	cfu/100ml	Shall not be detectable in any 100 ml sample	

Note: - *BDL-Below Detection Limit, **DL- Detection Limit

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Test Report

Sample Number:	VEL/SD/S/02	**Report No.:**	VEL/S/2005/16/002
Name & Address of the Project:	M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)	**Format No.:**	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	20/05/2020
		Period of Analysis:	16/05/2020 to 20/05/2020
		Receipt Date:	16/05/2020
Sample Description:	Soil	**Sampling Date:**	15/05/2020
Sample Location:	Project Site	**Sampling Type:**	Composite
Sample Collected by:	Vardan Enviro Lab Representative	**Packing Status:**	Team Sealed
Sampling and Analysis Protocol:	IS 2720, APHA & USDA	**Parameter Required:**	As per work order

S. No.	Parameter	Test-Method	Result	Unit
1.	**pH (at 25 ^{0}C)**	IS : 2720 (P-26) by pH Meter	7.85	--
2.	**Electrical Conductivity**	IS:14767 by Conductivity meter	0.325	mS/cm
3.	**Colour**	*SOP , SP-78,Issue No.-01& Issue Date-14/02/2013	Yellowish	--
4.	**Water holding capacity**	*SOP , SP-81,Issue No.-01& Issue Date-14/02/2013	36.51	%
5.	**Bulk density**	*SOP , SP-80,Issue No.-01& Issue Date-14/02/2013	1.52	gm/cc
6.	**Chloride as Cl**	*SOP , SP-85,Issue No.-01& Issue Date-14/02/2013	76.95	mg/kg
7.	**Calcium as Ca**	*SOP , SP-82,Issue No.-01& Issue Date-14/02/2013	98.37	mg/kg
8.	**Sodium as Na**	*SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	61.57	mg/kg
9.	**Potassium as K**	*SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	125.34	mg/kg
10.	**Organic Matter**	IS:2720 (P-22) Titrimetric Method	0.41	%
11.	**Magnesium as Mg**	*SOP , SP-83,Issue No.-01& Issue Date-14/02/2013	12.64	mg/kg
12.	**Available Nitrogen as N**	IS:14684 Distillation Method	243.18	kg./hec.
13.	**Phosphorus**	*SOP , SP-86,Issue No.-01& Issue Date-14/02/2013	42.63	kg./hec.
14.	**Total Zinc (as Zn)**	USEPA 3050 B:1996	34.67	mg/kg
15.	**Total Manganese (as Mn)**	USEPA 3050 B:1996	42.72	mg/kg
16.	**Total Chromium (as Cr)**	USEPA 3050 B:1996	1.52	mg/kg
17.	**Total Lead (as Pb)**	USEPA 3050 B:1996	1.16	mg/kg
18.	**Total Cadmium (as Cd)**	USEPA 3050 B:1996	0.51	mg/kg
19.	**Total Copper (as Cu)**	USEPA 3050 B:1996	3.81	mg/kg
20.	**Soil Texture**	IS:2720 (P-4) RA:2006	Silty Loam	--

MEENU KAUSHIK
SR. ANALYST
(Tested By)

VARDAN ENVIRONET
(Approved By)
Gaurav Chauhan
QUALITY MANAGER

NOTE: a)The results listed refer only to the tested samples & applicable parameters
b) Total liabilities of our lab will be restricted to the invoice amount only
c) The sample will be destroyed after retention time unless otherwise specified
d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Vardan EnviroLab
Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
Branch Off: Plot No. 24 & 25, Narayan Vihar, Block-B, Jaipur - 302035 (Rajasthan)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	**VEL/PI/ST/02**	**Report No.:**	**VEL/ST/2005/16/002**
Name & address of the Project:	**M/s Pyramid Infratech Pvt. Ltd., H-38, Ground Floor, M2K White House, Sector-57, Gurgaon (HR) Project Name: Group Housing Project, Vill- Badha, Sector-86, Gurgaon (HR)**	**Format No.:**	**7.8 F-01**
		Party Reference No.:	**NIL**
		Reporting Date:	**20/05/2020**
		Period of Analysis:	**16/05/2020 to 19/05/2020**
Sample Description :	**Stack Emission Monitoring**	**Receipt Date:**	**16/05/2020**

General Information

Sampling Location	:	**DG Set Area**
Sample Collected by	:	**Vardan EnviroLab Representative**
Date of Sampling	:	**16/05/2020**
Sampling Duration (Minutes)	:	**30 Min**
Stack attached to	:	**DG Set Area (DG Set –125 KVA)**
Make of stack	:	**Metal**
Diameter of stack (m)	:	**4 Inch**
Height of stack (m)	:	**7 Feet**
Instruments calibration status	:	**Calibrated**
Meteorological Condition	:	**Clear Sky**
Ambient Temperature – Ta (°C)	:	**37^0C**
Temperature of stack Gases – Ts (°C)	:	**151.00**
Velocity of stack Gases (m/sec.)	:	**9.08**
Flow rate of PM (LPM)	:	**25.0**
Flow rate of Gas (LPM)	:	**2.0**
Sampling condition	:	**Isokinetic**
Protocol used	:	**IS :11255 & EPA**

RESULTS

S.No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1.	Particulate Matter (as PM)	IS: 11255 (P-1), Gravimetric Method, RA: 2003	0.07	gm/kw-hr	<0.2
2.	Oxide of Nitrogen (as NOX)	IS: 11255 (P-7), Colorimetric Method, RA: 2012	1.36	gm/kw-hr	<4.0
3.	Total Hydrocarbon (as HC)	*SOP, SP-194, Issue No.01: 2018	0.52	gm/kw-hr	
4.	Carbon Monoxide (as CO)	*SOP, SP-74, Issue No.01: 2018	0.75	gm/kw-hr	<3.5

*SOP- Standard Operating Procedure.

MEENU KAUSHIK
SR. ANALYST
(Tested By)

VARDAN ENVIRONET
(Approved By)
Gaurav Chauhan
QUALITY MANAGER

NOTE: a)The results listed refer only to the tested samples & applicable parameters
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HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA

Website – www.hspcb.gov.in E-Mail - hspcb.pkl@sifymail.com

Telephone No. – 0172-2577870-73

No. HSPCB/Consent/ : 2821216GUSOCTE2861898 **Dated:03/03/2016**

To

M/s : PYRAMID INFRATECH PRIVATE LIMITED
SECTOR 86 VILLAGE BADHA GURGAON
GURGAON
122001

Sub. : Issue of Consent to Establish from pollution angle .

Please refer to your Consent to Establish application received in this office on the subject noted above.Under the Authority of the Haryana State Pollution Control Board vide its agenda Item No. 47.8 dated 28.04.83 sanction to the issue of "Consent to Establish" with respect to pollution control of Water and Air is hereby accorded to the unit PYRAMID INFRATECH PRIVATE LIMITED, for manufacturing of **Affordable Housing Project** with the following terms and conditions:-

1. The industry has declared that the quantity of effluent shall be 553 KL/Day i.e 0KL/Day for Trade Effluent, 0 KL/Day for Cooling, 553.0 KL/Day for Domestic and the same should not exceed .

2. The above "Consent to Establish" is valid for 60 months from the date of its issue to be extended for another one year at the discretion of the Board or till the time the unit starts its trial production whichever is earlier. The unit will have to set up the plant and obtain consent during this period.

3. The officer/official of the Board shall have the right to access and inspection of the industry in connection with the various processes and the treatment facilities being provided simultaneously with the construction of building/machinery. The effluent should conform the effluent standards as applicable

4. That necessary arrangement shall be made by the industry for the control of Air Pollution before commissioning the plant. The emitted pollutants will meet the emission and other standards as laid/will be prescribed by the Board from time to time.

5. The applicant will obtain consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of the Air (Prevention & Control of Pollution) Act,1981 as amended to-date-even before starting trial production

6. The above Consent to Establish is further subject to the conditions that the unit complies with all the laws/rules/decisions and competent directions of the Board/Government and its functionaries in all respects before commissioning of the operation and during its actual working strictly.

7. No in-process or post-process objectionable emission or the effluent will be allowed, if the scheme furnished by the unit turns out to be defective in any actual experience

8. The Electricity Department will give only temporary connection and permanent connection to the unit will be given after verifying the consent granted by the Board, both under Water Act and Air Act.

9. Unit will raise the stack height of DG Set/Boiler as per Board's norms.

10. Unit will maintain proper logbook of Water meter/sub meter before/after commissioning.

11. That in the case of an industry or any other process the activity is located in an area approved and that in case the activity is sited in an residential or institutional or commercial or agricultural area, the necessary permission for siting such industry and process in an residential or institutional or commercial or agricultural area or controlled area under Town and Country Planning laws CLU or Municipal laws has to be obtained from the competent Authority in law permitting this deviation and be submitted in original with the request for consent to operate.

12. That there is no discharge directly or indirectly from the unit or the process into any interstate river or Yamuna River or River Ghaggar.

13. That the industry or the unit concerned is not sited within any prohibited distances according to the Environmental Laws and Rules, Notification, Orders and Policies of Central Pollution control Board and Haryana State Pollution Control Board.

14. That of the unit is discharging its sewage or trade effluent into the public sewer meant to receive trade effluent from industries etc. then the permission of the Competent Authority owing and operating such public sewer giving permission letter to his unit shall be submitted at time of consent to operate.

15. That if at any time, there is adverse report from any adjoining neighbor or any other aggrieved party or Municipal Committee or Zila Parishad or any other public body against the unit's pollution; the Consent to Establish so granted shall be revoked.

16. That all the financial dues required under the rules and policies of the Board have been deposited in full by the unit for this Consent to Establish.

17. In case of change of name from previous Consent to Establish granted, fresh Consent to Establish fee shall be levied.

18. Industry should adopt water conservation measures to ensure minimum consumption of water in their Process. Ground water based proposals of new industries should get clearance from Central Ground Water Authority for scientific development of previous resource.

19. That the unit will take all other clearances from concerned agencies, whenever required.

20. That the unit will not change its process without the prior permission of the Board.

21. That the Consent to Establish so granted will be invalid, if the unit falls in Aravali Area or non conforming area.

22. That the unit will comply with the Hazardous Waste Management Rules and will also make the non-leachate pit for storage of Hazardous waste and will undertake not to dispose off the same except for pit in their own premises or with the authorized disposal authority.

23. That the unit will submit an undertaking that it will comply with all the specific and general conditions as imposed in the above Consent to Establish within 30 days failing which Consent to Establish will be revoked.

24. That unit will obtain EIA from MoEF, if required at any stage.

25. In case of unit does not comply with the above conditions within the stipulated period, Consent to Establish will be revoked.

Specific Conditions

1 Green belt of adequate width shall be provided by the unit.

2 Unit will not discharge any trade effluent & will not use any source of emissions

3 Unit shall obtain trial consent to operate before start of production

4 The unit shall dispose plastic waste only to authorised agency for disposal of plastic waste by any state pollution control board

Other Conditions :

Regional Officer, HQ
For and on be'half of chairman
Haryana State Pollution Control Board

---It is system generated certificate no signature is required---

OFFICE OF THE EXECUTIVE ENGINEER, HUDA DIV. NO. III, GURGAON

To

M/S Pyramid Infratech Private Limited.
H.N. - 38, Ground Floor
M2K White House
Sector – 57 Gurgaon

Memo No. 32700 Dated: 27-11-14

Sub: - Supply of fresh water for drinking & domestic purposes in affordable Group Housing Colony having plot area measuring 5.2875 acre in the revenue estate of village Badha , Sector 86 Distt Gurgaon (Haryana) (License No 154 of 2014)

Ref: - Your ref No Pyramid/Sec-86/14 dated 21.11.14

It is intimated that upon completion of the water supply line which is likely to take 2-3 years time, this office will be able to supply adequate water for your above mentioned proposed Project.

EXECUTIVE ENGINEER,
HUDA DIVISION, NO. III
GURGAON

From

Director,
Haryana Fire Service, Haryana,
Panchkula.

To

M/s Pegan Builders & Developers Pvt. Ltd. & Others,
C/o Pyramid Infratech Pvt. Ltd.,
H-38, Ground Floor,
M2K, White House, Sector-57,
Gurgaon.

Memo No. DFS/F.A./2015/ 351 / 6997
Dated: 18/11/15

Sub : **Approval of fire fighting scheme from the fire safety point of view of the Affordable Group Housing meas. 5.2875 acres at Sector-86, Village Badha, Gurgaon of M/s Pyramid Infratech Pvt. Ltd.**

Reference to your CFC Application No. 201510133748, dated 13.10.2015 on the subject cited above.

Your case for the approval of fire fighting scheme has been examined by the Fire Station Officer, Gurgaon. The Fire fighting scheme is found as per the N.B.C. 1983 Part IV revised 2005/ guidelines. Therefore, your proposed fire fighting scheme is hereby approved from the fire safety point of view with the following conditions:-

1) The proposed fire fighting scheme is approved as submitted in the building plan subject to the approval of building plan by the competent authority.
2) The approval of fire scheme by this office doesn't absolve the firm from his responsibility from all consequences, in case of fire due to any deficiencies or anything left out in the scheme submitted by you.
3) Overhead & underground water tanks provided for firefighting shall be so constructed in such a way that the domestic water tank shall filled from overflow of the fire Water tanks.
4) As soon as the installations of fire fighting arrangements are completed, the same may be got inspected/ tested and clearance should be obtained from this office.
5) If the infringement of Byelaws remains un- noticed the Authority reserves the right to amend the Plans/Fire Fighting Scheme as and when any such infringement comes to notice after giving an opportunity of being heard and the Authority shall stand Indemnified against any claim on this account.
6) If you fail to comply with any of the above terms & conditions you will be liable to be punished as per Chapter-III Section 31 Sub-Section 1 & 2 of Fire Act 2009 i.e. imprisonment for a term which may extend to three month or fine which may extend to five thousand rupees or both.
7) The staircase shall be made with the specified material enabling it non-slippery.
8) If the gap between ceiling and false ceiling is more than 800 mm then upright sprinkler above false ceiling & pendent sprinkler below false ceiling shall be installed in the building.
9) The builder/owner not submit any high rise case with single stair case in future and this case should not be quoted as a president in future.

Fire Officer,HQ
for Director, Haryana Fire Service,
Panchkula.

Endst. No- DFS/F.A./2015/351/ Dated

A copy is forwarded to the Fire Station Officer, Gurgaon with reference to his Memo No. FS/MCG/2015/1373, Dated 28.10.2015 for information and necessary action.

Fire Officer,HQ
for Director, Haryana Fire Service,
Panchkula.

DAKSHIN HARYANA BIJLI VITRAN NIGAM

(A Government of Haryana Undertaking)
Office of the gmol
Superintending Engineer 'OP' Circle
Mehrauli Road, Gurgaon.

0124-2322427
Fax No. 0124-2306590
e-mail se.gurgaon@gmail.com

To:

M/s Pyramid Infratech Pvt. Ltd.
H-38, Ground Floor,M2K
White House, Sector-57,
Gurgaon.

Memo No. Ch. -90 / Drg.-PLC Dated: 22/11/2014

Sub: **Assurance Certificate of DHBVN for Affordable Group Housing Colony on the land measuring 9.875acres in the revenue estate of village-Palra, Sector-70A, Gurgaon.**

Reference your letter No. Pyramid/DHBVN/70A/14 dated 28.11.2014 on the above subject.

It is herby assured that the power requirement of tentative load of 5667.854KW shall be considered from the nearest sub-station at the time of actual requirement as per DHBVN norms.

Superintending Engineer
'OP' Circle DHBVN, Gurgaon

C.C.to: -

The XEN S/U 'OP' Divn. DHBVN, Gurgaon.

DAKSHIN HARYANA BIJLI VITRAN NIGAM

(A Government of Haryana Undertaking)
Office of the gmol

Superintending Engineer 'OP' Circle
Mehrauli Road, Gurgaon.

0124-2322427

Fax No. 0124-2306590

e-mail se.gurgaon@gmail.com

To:

M/s Pyramid Infratech Pvt. Ltd.
H-38, Ground Floor, M2K White House,
Sector-57, Gurgaon.

Memo No. Ch.- 92 / Drg.-PLC Dated: 1 /12/2014

Sub: **Assurance of supply of power load for Group Housing Colony on the land measuring 5.2875 acres in the revenue estate of village Badha, Sector-86, Gurgaon.**

Reference your letter No. Pyramid/DHBVN/86/14 dated 1.12.2014 on the above subject.

It is herby assured that the power requirement of tentative load of 3170.436KW shall be considered from the nearest sub-station at the time of actual requirement as per DHBVN norms. However, the voltage level of the supply will be 33KV from Sector-58 to Sector-115, Gurgaon.

Superintending Engineer
'OP' Circle DHBVN, Gurgaon

C.C.to: -

The XEN 'OP' Divn. DHBVN, Manesar.

From

Director,
Haryana Fire Service, Haryana,
Panchkula.

To

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C/o Pyramid Infratech Pvt. Ltd.,
H-38, Ground Floor,
M2K, White House, Sector-57,
Gurgaon.

Memo No. DFS/F.A./2015/ 351 / 6997
Dated: 18/11/15

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Fire Officer,HQ
for Director, Haryana Fire Service,
Panchkula.

Endst. No- DFS/F.A./2015/351/ Dated

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Fire Officer,HQ
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Panchkula.