

Registered Office:
55, 2nd Floor, Lane-2, Westend Marg,
Saidulajab, Near Saket Metro Station,
South Delhi, New Delhi-110030
CIN: U70109DL2012PLC235725

Corporate Address:
C/o, Smart Homes, Sector 32A, Village Budhakhera,
Karnal - 132001, Haryana, India

To,
The Joint Director/ Scientist 'D'
Northern Regional Office
Ministry OF Environment, Forest & Climate Change (MoEF&CC)
Bays No. 24-25, Sector 31-A, Dakshin Marg
Chandigarh

Sub: Submission of Six-monthly Compliance Report of Stipulated Conditions of Environmental Clearance for the Proposed Affordable Group Housing Scheme measuring 5.6534 Acres in Sector-32-A, District- Karnal, Haryana for the period October 2022 to March 2023.

Sir,

In accordance to the condition of Environmental Clearance received from State Environmental Impact Authority for the above project vide letter no. SEIAA/HR/2017/682 dated 24/10/2017; we are submitting herewith six monthly Compliance report of stipulated condition of Environmental Clearance (in soft copy "as notification in Gazette of India on 28th November 2018") for the period of October 2022 to March 2023.

Thanking you!

Yours Sincerely,

For M/s Aegis Value Homes Limited

Authorized Signatory Director

Copy to:

1. Chairman, Haryana State Pollution Control Board (HSPCB), C-11, Sector-6, Panchkula, Haryana.
2. The Member Secretary, State Environment Impact Assessment Authority (SEIAA), Haryana, Bay no. 55-58, Prayavan Bhawan, Sector-2, Panchkula, Haryana



**Six-Monthly Environmental Compliance Report of
Stipulated Conditions of Environmental Clearance
(October 2022 to March 2023)**

**Proposed Affordable Group Housing Scheme
Measuring 5.6534 acres in Sector-32-A, Karnal, Haryana.
by M/s JD Universal Infra Ltd**

**Submission to:
Ministry of Environment, Forest & Climate Change,
(MoEFCC)**

**Submitted by:
M/s JD Universal Infra Ltd**

May, 2023

TABLE OF CONTENTS

| Sl. No. | Contents | Page No. |
|------------------|---|--------------|
| Chapter 1 | Introduction and Project Description | 4-5 |
| 1.1 | Introduction | 4 |
| 1.2 | Project Description | 4 |
| 1.3 | Project Location | 4 |
| 1.4 | Present Status | 4 |
| 1.5 | Purpose of the Report | 6 |
| Chapter 2 | Compliance of Stipulated Conditions of Environmental Clearance | 6-13 |
| | Specific Conditions for buildings in operational phase | |
| Part A | Construction Phase | 8-12 |
| | Operation Phase | 12-16 |
| Part B | Specific Conditions | 16-18 |
| Chapter 3 | Details of Environmental Monitoring | 18-25 |
| 3.1 | Ambient Air Quality Monitoring | 19 |
| 3.1.1 | Ambient Air Quality Monitoring Stations | 19 |
| 3.1.2 | Ambient Air Quality Monitoring Methodology | 19 |
| 3.1.3 | Ambient Air Quality Monitoring Results | 20 |
| 3.1.4 | Discussion on Ambient Air Quality in the Study Area | 20 |
| 3.2 | Ambient Noise Monitoring | 21 |
| 3.2.1 | Ambient Noise Monitoring Locations | 21 |
| 3.2.2 | Methodology of Noise Monitoring | 21 |
| 3.2.3 | Ambient Noise Monitoring Results | 21 |
| 3.2.4 | Discussion on Ambient Noise Levels in the Study Area | 22 |
| 3.3 | Groundwater Quality Monitoring | 22 |
| 3.3.1 | Ground water monitoring location | 22 |
| 3.3.2 | Methodology of Groundwater Quality Monitoring | 22 |
| 3.3.3 | Ground water Quality Monitoring Results | 23 |
| 3.3.4 | Discussion on Groundwater Quality in the Study Area | 23 |
| 3.4 | Soil Monitoring | 24 |
| 3.4.1 | Soil Monitoring Locations | 24 |
| 3.4.2 | Methodology of Soil Monitoring | 24 |
| 3.4.3 | Soil Monitoring Results | 24 |
| 3.4.4 | Discussion on Soil Characteristics in the Study Area | 25 |
| Tables | | |
| 3.1 | Details of Ambient Air Quality Monitoring Stations | 17 |
| 3.2 | Techniques used for Ambient Air Quality Monitoring | 18 |
| 3.3 | Ambient Air Quality Monitoring Results | 18 |
| 3.4 | Details of Ambient Noise Monitoring Stations | 19 |
| 3.5 | Ambient Noise Monitoring Results | 19 |

| Sl. No. | Contents | Page No. |
|----------------|--|----------|
| 3.6 | Details of water Quality Monitoring Location | 22 |
| 3.7 | Ground Water Monitoring Result | 23 |
| 3.8 | Details of Soil Quality Monitoring Location | 24 |
| 3.9 | Physico-Chemical Characteristics of Soil in the Study Area | 24 |
| Figures | | |
| 3.1 | Location-wise Variation of Ambient Noise Levels | 22 |
| | | |
| Annex | | |
| 1. | Environmental clearance letter from MoEF&CC | |
| 2. | Consent to Establish | |
| 3. | Monitoring Report | |
| 4. | Copy of Application for NOC of Ground Water | |
| 5. | NOC from AAI | |
| 6. | NOC from Forest | |
| 7. | NOC from Fire Department | |
| 8. | Assurance letter for electricity supply | |
| 9. | NOC from HUDA for Discharge of Surplus Treated Water | |
| 10. | Service Layout Plan | |
| 11. | Corporate Environmental Policy | |
| 12. | Copy of Public Notice | |
| 13. | Copy of Audit report | |
| 14. | RMC batch report | |

CHAPTER-1**INTRODUCTION AND PROJECT DESCRIPTION****1.1 INTRODUCTION**

The proposed affordable group housing Scheme measuring in sector 32 AKarnal, Haryana, Haryana by M/s JD Universal Infra Ltd.

This project has been granted environmental clearance vide letter no. SEIAA/HR/2017/682 dated 24thOctober, 2017 by State Environment Impact Assessment Authority Haryana copy of same is attached as **annexure 1**.

1.2 PROJECT DESCRIPTION**Table 1.1: Brief Description of project**

| Sl. No. | Description | Details | Unit |
|---------|------------------------------|-----------|------|
| 1 | Plot Area | 22878.46 | sqm |
| 2 | Total Built Up Area | 62411.142 | sqm |
| 3 | Green Belt Area | 5721.76 | sqm |
| 4 | Max Height of Building | 44.95 | M |
| 5 | Total Water Requirement | 428 | KLD |
| 6 | Fresh Water Demand | 293 | KLD |
| 7 | Total Waste Water Generated | 341 | KLD |
| 8 | STP Capacity | 410 | KLD |
| 9 | Total Power Requirement | 3000 | KW |
| 10 | Rain water Harvesting Pits | 06 | Nos. |
| 11 | Total solid Waste Generation | 2.34 | TPD |
| 12 | Total Parking Facility | 509 | ECS |

1.3 PROJECT LOCATION

The proposed affordable group housing Scheme measuring in sector 32 A Karnal, Haryana.

1.4 PRESENT STATUS

| Construction Status Tower Wise Date -30.09.2022 | | |
|---|--------------------------|---|
| S.No. | Description | Status |
| 1 | A1Tower | |
| | Structure Status | Mumty Level Casted |
| | Block Work | G.F to 14th floor Complete |
| | Plaster Work | G.F to 14th floor Complete |
| | Tile Work | G.F to 14th floor complete |
| | Door Shutter | G.F to 14th floor complete |
| | Aluminium window Work | 1st to 14th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | 1 st to 7 th floor complete |
| 2 | A2Tower | |
| | Structurework | Mumty LevelCasted |

| | | |
|---|------------------------|--|
| | BlockWork | G.F to 14 th floor Complete |
| | Plaster Work | G.F to 14th floor Complete |
| | Tile work | G.F to 14 th floor |
| | Door Shutter | G.F to 14 th floor complete |
| | Aluminium window Work | G.F to 14 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| 3 | A3Tower | |
| | Structurework | Mumty LevelCasted |
| | BlockWork | G.F to 14 th floor Complete |
| | Plaster Work | G.F to 14 th floor Complete |
| | Tile work | G.F to 14 th floor |
| | Door Shutter | G.F to 14 th floor complete |
| | Aluminium window Work | 1st to 6 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| 4 | A4Tower | |
| | ConstructionWork | Mumty LevelCasted |
| | BlockWork | G.F to 14 th floor Complete |
| | PlasterWork | G.F to 14 th floor Complete |
| | Tile work | G.F to 14 th floor |
| | Door Shutter | G.F floor complete |
| | Aluminium window Work | 1st to 14 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| 5 | B1Tower | |
| | ConstructionWork | Mumty LevelCasted |
| | BlockWork | Ground Floor to 9 th Floor Complete |
| | PlasterWork | 1 st to 9 th floor Complete |
| | Tile Work | G.F to 9 th floor complete |
| | Door Shutter | G.F to 9 th floor complete |
| | Aluminium window Work | 1st to 9 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| 6 | A5Tower | |
| | ConstructionWork | Mumty LevelCasted |
| | BlockWork | G.F to 14 th Floor Complete |
| | Plaster Work | G.F to 14 th floor Complete |
| | Tile work | G.F to 14 th floor |
| | Door Shutter | 3rd to 14 th floor complete |
| | Aluminium window Work | 4 th to 14 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| 7 | A6Tower | |
| | ConstructionWork | Mumty LevelCasted |
| | Block Work | G.F to 14 th floor complete |
| | Plaster Work | G.F to 14 th floor Complete |
| | Tile work | G.F to 14 th floor Complete |
| | Door Shutter | G.F and 2 nd to 14 th floor complete |
| | Aluminium window Work | 2 nd to 14 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| 8 | A7Tower | |
| | ConstructionWork | Mumty LevelCasted |
| | Block Work | G.F to 11 th floor Complete |
| | Plaster Work | 1 st to 11 th floor Complete |
| | Tile Work | 1 st to 11 th Floor Complete |

| | |
|--------------------------|--|
| Door Shutter | 2 nd to 11 th floor complete |
| Aluminium window Work | 2 nd to 11 th floor complete |
| Terrace Brick Bat Coba | Completed |
| Switch Socket and wiring | 3 rd to 9 th floor complete |

1.5 PURPOSE OF THE REPORT

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

Further, the study will envisage the environmental impacts that have generated in the local environment due to the project.

The environmental assessment is being carried out to verify:-

- That the project does not have any adverse environmental impacts in the project area and its surrounding
- Compliance with the conditions stipulated in the Environmental Clearance Letter.
- The Project Management is implementing the environmental mitigation measures as suggested in the approved Form-1, Form-1A, Environmental Management Plan (EMP) and building plans.
- The project proponent is implementing the environmental safeguards in true spirit.
- Any non-conformity in the project with respect to the environmental implication of the project.

CHAPTER-2**COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE**

| | |
|------------------------------------|--|
| Name of Project | Proposed affordable group housing Scheme measuring 5.6534 in sector 32 A Karnal, Haryana |
| Clearance No. | SEIAA/HR/2017/682 dated on 24.10.2017 |
| Period of compliance Report | October 2022 to March 2023. |

SPECIFIC CONDITIONS**Construction Phase:**

| S. No. | Conditions of Environmental Clearance | Reply |
|--------|---|--|
| 1. | “Consent For Establishment” 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 start of any construction work at site. | Consent to Establish has already been obtained vide letter no. HSPCB/Consent/: 329962318KARCTE4904497 dated:16/02/2018 and attached as annexure 2 . |
| 2. | A First aid room as proposed in the project report shall be provided in both during construction and operation phase of project | First aid facility has been provided at the project site for the laborers and same will also be provided during operational 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 laborers is strictly prohibited. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured. | Adequate drinking water and sanitary facilities has been provided for construction workers at the site, The safe disposal of wastewater and solid wastes generated during the construction phase is being ensured. |
| 4. | All the top soil excavated during Construction activities should be stored for use in horticulture/landscape development within project site. | All the top soil excavated during construction activities was used for back filling and landscape area development. |
| 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 and should be disposed of after taking necessary precautions for general safety and health aspects of the people, only in the approved sites with the approval of competent authority. | At Present construction waste generated is very low, it is provided to resident of nearby village for land filling. |
| 6. | Construction spoils including bituminous materials and other hazardous materials must not be allowed to contamination watercourses and the dump site for such materials must be secured so that they should not leak into groundwater 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. | No bituminous material or other hazardous material is being used during construction phase. The only hazardous material which is generated at site is spent oil from DG set the amount of which is being managed as per norms. |
| 7. | The diesel generator sets to be used during construction phase should be of ultra low sulphur diesel type and should confirm to Environment (Protection) Rules prescribed for air and noise emission standard. | At present one number of DG set of capacity 125 KVA confirming to EPA rule is installed at the site. Low sulphur diesel is being used for running of this DG Set. |

| | | |
|-----|--|---|
| 8. | The diesel required for operating DG sets shall be stored in underground tank if required clearance from chief controller of explosive shall be taken. | All the necessary precautions are being taken to ensure compliance of all the safety norms. The quantity of diesel stored is minimal during the construction phase. |
| 9. | Ambient noise levels shall conform to the commercial/Industrial 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 commercial standard. | Ambient noise levels have been monitored by outside approved lab on regular basis indicating all the results within permissible limits of EPA, 1986. Latest monitoring has been done in the month of March 2023. The ambient air and noise monitoring reports are enclosed as Annexure 3 . |
| 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 27 th August 2003. | The construction agencies is using fly ash based material/ products, as per the provisions of fly ash notification of 14.9.1999 and as amended on 27.8.2003. |
| 11. | Storm water control and its re-use as per CGWB and BIS standard for various applications should be ensured. | 6 nos. of RWH pits has been constructed for recharge of ground water, as per Central Ground Water Board and BIS standards at appropriate stage of site development. |
| 12. | Water demand during construction phase should be reduced by uses of premix concrete, curing agent and other best practices. | Water demand during construction is being reduced by uses of pre mixed concrete, curing agents and other best practices. |
| 13. | In view of severe constrains in water supply augmentation in the region and sustainability of water resources, the developers 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/R.O. MoEF, Chandigarh before start of construction. | Application for the NOC of ground water extraction for construction purpose has been submitted to the authority and copy of the same is attached as annexure 4 .Assurance letter for supply of drinking water for construction and operation phase has been obtained. Construction water is sourced through STP treated water from HUDA. |
| 14. | Roof should meet prescribed requirements as per energy conservation building code by using appropriate thermal insulation materials to fulfill requirements. | Same will be complied at appropriate stage of site development. |
| 15. | Opaque wall should meet prescribed requirements as per energy conservation building code which is proposed to be mandatory for all air conditioned spaces while it is inspirational for non air conditioned spaces by use of appropriate thermal insulation to fulfill the requirements. | This is affordable group housing project, however the walls will be made with RCC/Block works. |

| | | |
|-----|--|---|
| 16. | The approval of competent authority shall be obtained for structural safety of the building due to earthquake, adequacy in firefighting 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. | The approval of competent authority has been obtained for from forest department and adequacy of fire fighting equipment's as per National Building Code including protection measures from lightening etc. Approval of design of structure safety of the buildinghas been obtained from competent authority vide certificate ref no. 2021/GDE/AEGIS/stab./01. NOC from airport authority for height clearance is attached as annexure 5 . NOC from forest department is attached as annexure 6 . |
| 17. | Overexploited ground water and impending severe shortage of water supply in the region requires the developers to redraw the water and energy conservation plan. Developer shall reduce the overall footprint of the proposed development. Project proponent shall incorporate water efficiency/saving as well as water reuse/recycling within three month to the SEIAA, Haryana and R.O. MoEF, GOI, Chandigarh. | Ground water will not be used at any stage of project. For construction purpose STP treated water from HUDA is being used. A very well planned dual plumbing has been proposed for the conservation of water. Water saving devices is proposed for installation at project site. |
| 18. | The project proponent as stated in the proposal shall construct 06 nos. rainwater harvesting pits under expansion for recharging the ground water within project premises. Rain water harvesting pits shall be designed to make provision for 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. | 06 no. of RWH pits has been constructed at site |
| 19. | The project proponent shall provide for adequate fire safety measures and equipment as required by Haryana fire service act, 2009 and instruction issued by the local/authorities 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. | Approval of firefighting scheme has already been obtained vide Memo no. FS/2020/179 dated 22/07/2020 and attached as annexure 07 . |
| 20. | The project proponent shall obtain assurance from the UHBVN for total supply of 3000 KW 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. | Assurance from HBVN for electricity supply has been obtained and attached as annexure 08 . |
| 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. | Detail calculation of power load & ultimate power load of the project had already been submitted and provision for electrical infrastructure has also been made. Assurance from DHBVN for electricity supply has been obtained and attached as annexure 08 . |
| 22. | The project proponent shall not raise any construction activity in the natural land depression/ Nallah/ water course and shall ensure that the natural flow from from the Nallah/ watercourse is not obstructed. | No Nallah/Water course is present within the vicinity of the 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 group housing project as per prescribed by law. Level of the other areas in the group housing projects shall also be kept suitably so as to avoid flooding. | Plinth level is kept sufficiently above the level of approach 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. | The same has been carried out and it will be ensured that density of population does not exceed norms approval by Director General Town and Country Department Haryana during construction phase. |
| 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. | CSTP treated water are being used 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. | There were no trees at project site. |
| 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. | 03 mtrs high barricade has been provided around the project area. Dust screen for every floor above the ground will be provided. Water sprinkling and covering of stored material is being done to restrict dust and air pollution during construction phase of the project.. |
| 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. | Sedimentation basin in the lower level for the project site to trap pollutant and other wastes during rains was provided. |
| 29. | The project proponent shall provide Rasta of proper width and proper strength for each project before the start of construction. | Before start of construction, proper rasta of proper width & strength has been provided at project site. |
| 30. | 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. | The condition will be complied during later stage of development. |
| 31. | The project proponent shall adequately control construction dust like silica dust, non-silica dust and wood dust. Such dust shall not spread out side project premises. Project proponent shall provide respiratory protective equipment to all construction workers. | Measures are being taken care to control construction dusts like silica dust, non-silica dust & wood dust. Respiratory protective equipment to all construction workers has been provided. Anti-smog gun is provided at the site to control dust pollution. |
| 32. | The project proponent shall develop complete civic infrastructure of the group housing project including internal roads, green belt development, sewerage line, Rain water recharge arrangement, storm water drainage system, solid waste management site and provision for treatment of biodegradable waste, STP, water supply line, dual plumbing line, electric supply lines etc and shall offer possession of the units/flats thereafter. | Only after completion of all civic infrastructures, The possession offer will be given to buyer. |

| | | |
|-----|---|---|
| 33. | The Project Proponent shall provide one refuge area till 24 meter, one till 39 meter and one after 15 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. | The building has been designed in line with NBC Requirement. |
| 34. | The project Proponent shall provide fire control room and fire officer for building above 30 m as per National Building Code. | The same will be done and fire control room and fire officer for building will be provided. |
| 35. | The project proponent shall obtain permission of mines and geology department for excavation of soil before the start of excavation. | No permission is required as there is no construction of basement in the project. |
| 36. | The Project Proponent shall seek specific prior approval from concerned local authority/HUDA regarding provision of storm drainage and sewage system including their integration with external services of HUDA/ local authorities beside other required services before taking up any construction activity. | STP of adequate capacity will be installed and treated effluent will be recycled to achieve zero discharge during operational phase. NOC from HUDA has already been obtained for the disposal of surplus treated water to sewage line. Copy of same is attached as annexure 09 . |
| 37. | The project proponent shall submit the copy of fire safety plan duly approved by fire department before the start of construction. | Approval of firefighting scheme has already been obtained and attached as annexure 07 . |
| 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 | NOC from HUDA has already been obtained for discharge of excess treated waste water/ storm water, if any, in the public drainage. Copy of same is attached as annexure 09 . |
| 39. | The project proponent shall maintain the distance between STP and water supply line. | The same has been taken care of and a fair distance will be maintained between STP and water supply lines. Service layout plan is attached as annexure 10 . |
| 40. | The project proponent shall ensure that the stack height is 6 meter more than the highest tower. | The same has been complied and the stack height will be provided as per CPCB norms. |
| 41. | The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 Richter scale. | Approval of design of structure safety of the building has been obtained from competent authority vide certificate ref no. 2021/GDE/AEGIS/stab./01 . |

OPERATION PHASE:

| S. No. | Conditions of Environmental Clearance | Reply |
|--------|--|---|
| 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. | “Consent to Operate” from HSPCB before the start of operation will be obtained. |

| | | |
|----|---|--|
| b) | The STP shall be installed for the treatment of sewage to the prescribed standards including odors 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 SEIAA, Haryana before the project is commissioned for operation. Tertiary treatment of waste water is mandatory. The project proponent shall remove not only Ortho-Phosphorous but total phosphorous to the extent of less than 2mg/liter. Similarly total nitrogen level shall be less than 2mg/liter in tertiary treated waste water. Discharge of treated sewage shall conform to the norms and standard of CPCB/HSPCB, whichever is environmentally better. Project proponent shall implement such STP technology which does not require filter backwash. The project proponent shall essentially provide two numbers of STPs preferably equivalent to 50% of total capacity or as per the initial occupancy as the case may be. | STP of adequate capacity will be installed and treated effluent will be recycled for flushing and horticulture work during operational phase. It is assured that UV system will be provided with the STP. |
| 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 5 mg/litre and the recycled water will be used for flushing, gardening and DG set cooling etc | Separation of gray and black water will be done by the use of duel plumbing line. However, grey water as well as black water will be treated in STP. The recycled water will be well within the permissible limits and will be used for flushing and gardening. It is also confirmed that UV system will be provided with STP. |
| d) | For disinfections of treated waste water ultra-violation radiation or ozonization should be used. | Ultra violet radiation or ozonization for disinfection of treated waste water will be used. |
| e) | 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 shall be in the open as promised by the project proponent with appropriate stack height above the highest roof level of the project as per the CPCB norms. The diesel used for DG sets shall be ultra-low sulphur diesel (35 ppm sulphur), instead of low sulphur diesel. | Diesel power generation set will be of enclosed type and will be confirmed to rule made under the environment protection act 1986. Ultra low sulphur diesel will be used for DG set. |
| 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 Project. | Ambient Noise level will be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the Proposed Project. |
| g) | The project proponent as stated in the proposal should maintain at least 25.01 % 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 shall be preferably landscaped and covered with vegetation/grass, herbs & shrubs. Only locally available plant species shall be used. | Same will be duly Comply |

| | | |
|----|--|--|
| h) | 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. | Same will be duly comply |
| i) | 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. | Rain water harvesting for roof run-off and surface run-off, as per plan submitted will be implemented. Before recharging the surface run off, pre- treatment through sedimentation tanks will be done to remove suspended matter, oil and grease. |
| j) | The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority. | Groundwater has been monitored in the month of March 2023. Same is attached as annexure 04 |
| k) | 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 month time. | Noted. |
| l) | Energy conservation measures like installation of LED only for lighting the areas outside the building and inside 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. | Same will be complied. |
| m) | 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. | Same will be complied. |
| n) | The solid waste generated should be properly collected and segregated as per the requirement of the MSW Rules, 2016 and as amended from time to time. The bio-degradable waste should be treated by appropriate technology (proposed OWC) 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. | The solid waste generated will be properly collected and segregated as per the requirement of the MSW Rules, 2016. The bio-degradable waste will be treated by appropriate technology at the site ear-marked within the project area and dry/inert solid waste will be disposed off to the approved sites for land filling after recovering recyclable material. |
| o) | 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. | Same will be complied as per HAREDA Noms. |

| | | |
|----|---|--|
| 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. | There will be no congestion near the entry and exit point from the road adjoining the proposed project site. |
| q) | The Project shall be operationalized only when HUDA/local authority will provide domestic water supply system in the area. | Noted. |
| r) | Operation and maintenance of STP, solid waste management and electrical Infrastructure, pollution control measures shall be ensured even after the completion of project. | Same will be Complied. |
| 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 of as per existing E-waste Management Rules 2011 and Batteries Management Rules 2001. The project proponent shall maintain a collection center for E-waste and it shall be disposed of to only registered and authorized dismantler/recycler. | Different type of wastes will 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. Separate collection of e-waste and its recycling will be done only with registered and authorized dismantler as per existing E-waste Management Rules 2016. |
| t) | Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied with. | Noted. |
| u) | Water supply shall be metered among different user and different utilities. | Water supply will be metered among different user and different utilities. |
| v) | The project proponent shall ensure that the of DG sets is more than the highest tower and also ensure that the emission standard of noise and air are within the CPCB latest prescribed limits. Noise and Emission level of DG sets greater than 800KVA shall be as per CPCB latest standards for high capacity DG sets. | The stack height of DG sets will be as per the CPCB guideline and also ensure that the emission standard of noise and air will be within the CPCB latest prescribed limits. |
| w) | All electric supply exceeding 100 amp, 3 phase shall maintain the power factor between 0.98 lag to 1 at the point of connection. | Noted. |
| x) | The project proponent shall not use 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 at all needed. 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 (CoP), 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. | Same will be complied. |

| | | |
|-----|---|--|
| 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. | Same will be complied. |
| 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-wash under any meteorological conditions. | Same will be complied. |
| aa) | 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. | Water sprinkling is being done regularly in the project area to suppress the dust. |
| ab) | The project proponent shall ensure proper Air Ventilation and light system in the basements 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 the extent of 30 must be provided by the project proponent. | Same will be complied as per ASHARE / NBC 2016. |
| ac) | The Project proponent shall ensure drinking/domestic water supply as per prescribed standard till treated water supply is made available by HUDA. | Same will be complied. |
| ad) | The project proponent shall install solar panel for energy conservation. | Same will be complied as per HAREDA Noms. |

GENERAL CONDITION:

| Sr. No | Conditions of Environment Clearance | Reply |
|--------|---|---|
| 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. | The environmental safeguards contained in the documents will be implemented in letter and spirit. |
| 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 copies as well as by e-mail) to the northern Regional Office of MoEF, the respective Zonal Office of CPCB, HSPCB and SEIAA Haryana. | Six monthly compliance reports are being submitted on regular basis. |
| 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. | The Compliance of monitoring for STP and Stack emission will be done during operation phase. Environmental monitoring of Ambient Air, Ambient Noise and Soil quality are monitored regularly through external NABL laboratory and monitoring report is attached as annexure 03 . |

| | | |
|-------|--|--|
| 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. | Noted. |
| V. | The Project proponent shall not violate any judicial orders/pronouncements issued by any Court/Tribunal. | Noted. |
| 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. | NOC of Height Clearance from Civil Aviation has been obtained and attached as annexure 5 . NOC from forest department is obtained and attached as annexure 6 . |
| 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. | Same has been informed in two local newspapers that are widely circulated in the region. A copy of Environment Clearance conditions also has been put on project proponent's website for public awareness. Copy of the public notice is attached as Annexure 11 . |
| 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. | All Statutory clearance has been obtained from respective departments. |
| IX. | Any appeal against 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. | Noted. |
| X. | The project proponent shall put in place corporate environment policy as mentioned in MoEF, GOI Office Memorandum No. J-11013/41/2006-IA.II(I) dated 24.04.2012 within three month periods. Latest environmental corporate policy should be submitted to SEIAA within 3 months of issuance of this letter. | Corporate environmental policy is attached as annexure 12 . |
| 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. | Noted for action. |
| 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. | NOC from forest department has already been obtained and attached as annexure 06 . |
| 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. | All Vehicle used during the construction operation phase is used pollution under control certificate from competent authority. |
| XIV. | The project proponent is responsible for compliance all condition in environment clearance letter and project proponent shall not absolve himself/herself of the responsibility by shifting it to any contractor engaged by project proponent. | Agreed. |

| | | |
|--------|--|---|
| XV. | The project proponent shall seek fresh Environmental 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 licensee/licensees 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 website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM2.5, PM10, SOX NOX, Ozone, Lead, CO, Benzene, Ammonia, Benzopyrine, arsenic and Nickel. (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. | The status of compliance of stipulated EC conditions along with monitored data has been uploaded on website. |
| 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 along with the status of compliance of the EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail. | Noted. |
| XIX. | The project proponent shall conduct environment audit at every three months 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. | Agreed and Third Party Consultant has been engaged for environment audit. Copy of recent audit report is attached as annexure 13 . |
| XX. | Corporate Environment and Social Responsibility (CSER) shall be laid down by the project proponent (2% shall be earmarked) as per guidelines of MoEF, GOI Office Memorandum No. J-11013/41/2006-IA.II(I) dated 18.05.2012 and Ministry of Corporate Affairs, GOI Notification Dated 27.02.2014. A separate audit statement shall be submitted in the compliance. Environment related work proposed to be executed under this responsibility shall be undertaken simultaneously. The project proponent shall select and prepare the list of the work for implementation of CSER of its own choice and shall submit the same before the start of construction. | Noted for action. |
| XXI. | The validity of Environmental clearance letter is valid upto 07 years from the date of issuance of EC letter. The EC conditions applicable till life space project in case of residential project will continue to apply. The resident welfare association/ housing co-operative societies shall responsible to comply conditions laid down in EC. In case of violation the action would be taken as per the laid down law of land. Compliance report should be sent to this office till life of the project. | Noted. |

CHAPTER-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 one location in month of March, 2023, being near main gate to assess the ambient air quality of Project Site. This will enable to have an analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The location of the ambient air quality monitoring station is given in **Table 3.1**.

Table 3.1 Details of Ambient Air Quality Monitoring Stations

| S. No. | Location Code | Location Name/ Description | Environmental Setting |
|--------|---------------|----------------------------|-----------------------|
| 1. | AAQ-1 | Near main Gate | Residential |

3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter 2.5 (PM_{2.5})
- Particulate Matter 10 (PM₁₀)
- Sulphur Dioxide (SO₂)
- Oxide of Nitrogen (NO₂)
- Carbon Monoxide (CO)
- Ozone (as O₃)
- Lead (Pb)
- Ammonia (NH₃)
- Benzene (C₆H₆)
- Benzo (a) Pyrene
- Arsenic (As)
- Nickel (Ni)

The duration of sampling of PM_{2.5}, PM₁₀, SO₂, NO₂, PB, NH₃, C₆H₆, AS and Benzo(a)Pyrene was 24 hourly continuous sampling per day. The Sampling of CO was done 1 hours while Ozone was sampled for 8 hours duration as per 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 APM 550 instruments have been used for monitoring Particulate Matter 2.5 (PM_{2.5} i.e. <2.5 microns), and Respirable Dust Sampler APM 450 was used for sampling Respirable fraction (<10 microns), gaseous pollutants like SO₂, and NO₂. Bladder and Aspirator bags were used for collection Carbon monoxide samples. Non-Dispersive Infrared Absorption Method (NDIR) techniques have been used for the estimation of CO. Gas Chromatography techniques have been used for the estimation of Benzo (a)Pyrene and Benzene.

Table 3.2: Techniques used for Ambient Air Quality Monitoring

| S. No. | Parameter | Technique | Technical Protocol |
|--------|--|--|----------------------|
| 1 | Particulate Matter 2.5 | Gravimetric Method | IRDH/SOP/AAQM/01 |
| 2 | Particulate Matter 10 | Gravimetric Method | IS 5182 P- 23 (2006) |
| 3 | Sulphur dioxide (SO ₂) | Modified West and Gaeke | IS 5182 P-02 (2001) |
| 4 | Oxides of Nitrogen | Jacob & Hochheiser Method | IS 5182 P-06 (2006) |
| 5 | Carbon Monoxide | Non-Dispersive Infrared Absorption Method (NDIR) | IRDH/SOP/AAQM/08 |
| 6 | Ozone (as O ₃) | Chemical Method (Colorimetric) | IS:5182(Part-9) |
| 7 | Lead (Pb) | Atomic Absorption Direct Aspiration Method | IS:5182(Part-22) |
| 8 | Ammonia (NH ₃) | Indophenol Method (Colorimetric) | SOP:IRDH/SOP/AAQM/09 |
| 9 | Benzene (C ₆ H ₆) | Gas Chromatography | IS:5182(Part-11) |
| 10 | Benzo alpha Pyrene | Gas Chromatography | IS:5182(Part-12) |
| 11 | Arsenic (As) | Atomic Absorption through Hydride Generator | SOP:IRDH/SOP/AAQM/06 |
| 12 | Nickel (Ni) | Atomic Absorption direct Aspiration method | SOP:IRDH/SOP/AAQM/07 |

3.1.3 Ambient Air Quality Monitoring Results

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂, NO₂, CO, O₃, Pb, NH₃, C₆H₆, AS, Ni, and Benzo (a)Pyrene are presented in **Table 3.3**.

Table 3.3: Ambient Air Quality Monitoring Results

| S. No | Parameter | Method | Results | Unit | Requirement (CPCB limits)* |
|-------|--|------------------------|---------|-------------------|----------------------------|
| 1. | Particulate Matter as PM _{2.5} | IRDH/SOP/AAQM/01 | 65.0 | µg/m ³ | 60 |
| 2. | Particulate Matter as PM ₁₀ | IS 5182 P- 23 (2006) | 166.0 | µg/m ³ | 100 |
| 3. | Sulphur dioxide as SO ₂ | IS 5182 P-02 (2001) | 09.0 | µg/m ³ | 80 |
| 4. | Nitrogen dioxide as NO ₂ | IS 5182 P-06 (2006) | 23.5 | µg/m ³ | 80 |
| 5. | Carbon monoxide as CO | IRDH/SOP/AAQM/08 | 0.80 | mg/m ³ | 4.0 |
| 6. | Ozone (as O ₃) | IS:5182(Part-9) | 09.0 | µg/m ³ | 100 (8 Hourly) |
| 7. | Lead (Pb) | IS:5182(Part-22) | <0.1 | µg/m ³ | 1 |
| 8. | Ammonia (NH ₃) | SOP: IRDH/SOP/ AAQM/09 | 13.6 | µg/m ³ | 400 |
| 9. | Benzene (C ₆ H ₆) | IS:5182(Part-11) | <1.0 | µg/m ³ | 5 |
| 10. | Benzo alpha Pyrene | IS:5182(Part-12) | <1.0 | ng/m ³ | 1 |
| 11. | Arsenic (As) | SOP: IRDH/SOP/ AAQM/06 | <1.0 | ng/m ³ | 6 |
| 12. | Nickel (Ni) | SOP: IRDH/SOP/ AAQM/07 | <1.0 | ng/m ³ | 20 |

3.1.4 Discussion on Ambient Air Quality in the Study Area

The levels of PM₁₀ and PM_{2.5} near main gate of project site is above than permissible limit of 100 µg/m³ 60 µg/m³ respectively (for residential, rural and other areas as stipulated in the National Ambient Air Quality Standards). Other parameters were observed within the corresponding stipulated limits at monitoring location.

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 at the project site. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at 1 location at the front side of the project, site as given in **Table 3.4**.

Table 3.4: Details of Ambient Noise Monitoring Stations

| S. No. | Location Code | Location Name/ Description | Present Landuse |
|--------|---------------|----------------------------|-----------------|
| 1. | N1 | Project Site | Residential |

3.2.2 Methodology of Noise Monitoring

Noise levels were measured using integrated sound level meter manufactured by Envirotech Instrument Pvt. Ltd. The integrating sound level meter is an integrating/ logging type with frequency range of 'A' type as per IS 15675 (Part 1) 2005. This instrument is capable of measuring the Sound Pressure Level (SPL), Leq and SEL on digital display.

Noise level monitoring was carried out continuously for 24-hours with one hour interval starting at 14:20 hrs to 13:20 hrs next day. The noise levels were monitored on working days only. During each hour Leq were directly computed by the instrument based on the sound pressure levels. Lday (Ld), Lnight (Ln) and Ldn values were computed using corresponding hourly Leq.

3.2.3 Ambient Noise Monitoring Results

The locations wise ambient noise monitoring result are summarized in **Table 3.5**. The location-wise variation of noise levels are graphically presented in **Figure 3.1**.

Table 3.5: Ambient Noise Monitoring Results

| Sr. No. | Test Locations | Day Time - dB(A) | | Night Time - dB(A) | |
|---------|----------------|------------------|------------------------------|--------------------|------------------------------|
| | | Results | Limits as per CPCB guideline | Results | Limits as per CPCB guideline |
| 1 | Near Main Gate | 52.7 | 55 | 41.7 | 45 |

May 2023

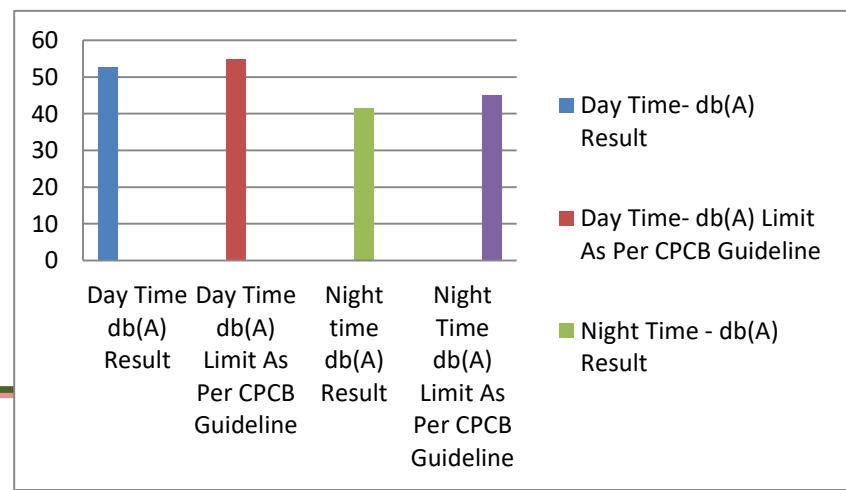


Figure 3.1 Location-wise Variation of Ambient Noise Levels

3.2.4. Discussion on Ambient Noise Levels in the Study Area

Day Time Noise Levels (L_{day}):

The day time noise level was found within the limit for Residential area i.e. 55 db(A).

Night Time Noise Levels (L_{night}):

The night time noise level was found within the limit for Residential area i.e. 45 db(A)

3.3 GROUNDWATER QUALITY MONITORING

3.3.1 Ground water monitoring location

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

Water sample was collected from one location from the project site. The sample was analyzed for various parameters to compare with the standards for drinking water as per IS: 10500 for ground water sources. The details of water sampling locations are given in **Table 3.6**.

Table 3.6: Details of Water Quality Monitoring Station

| S. No. | Location Code | Location Name/ Description |
|--------|---------------|----------------------------|
| 1. | GW 1 | project site |

3.3.2 Methodology of Groundwater Quality Monitoring

Sampling of ground water was carried out in March, 2023. 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 HNO₃. 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 by road to IR&DH 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 ground water are given in **Table 3.7**.

3.3.3 Groundwater Quality Monitoring Results

The Detailed ground water quality monitoring results are presented in **Table 3.7**.

Table-3.7: Ground Water Monitoring Result

| S No. | Parameter | Test Protocol | Results | Unit | Requirements as per IS 10500- 2012 | |
|-------|-------------------------------------|-------------------------------|---------|------|------------------------------------|--------------------------|
| | | | | | Acceptable Limit (Max) | Permissible limits (Max) |
| 1. | pH | IS 3025 P-11 1983 | 7.78 | -- | 6.5-8.5 | No Relaxation |
| 2. | Turbidity | IS 3025 P-10 (1984) | <0.5 | NTU | 1 | 5 |
| 3. | Total Hardness | IS 3025 P-21 (2009) | 376.0 | mg/l | 200 | 600 |
| 4. | Total Dissolved Solids (TDS) | IS 3025 P-16(1984) | 796.0 | mg/l | 500 | 2000 |
| 5. | Calcium as Ca | IS 3025 P-40 (1991) | 72.0 | mg/l | 75 | 200 |
| 6. | Magnesium as Mg | IS 3025 P-46 (1994) | 47.62 | mg/l | 30 | 100 |
| 7. | Total Alkalinity as CaCO_3 | IS 3025 P-23 (1986) | 380.0 | mg/l | 200 | 600 |
| 8. | Chloride as Cl | IS 3025 P-32 (1988) | 173.0 | mg/l | 250 | 1000 |
| 9. | Barium as Ba | Annex F of IS:13428 | <0.05 | mg/l | 0.7 | No Relaxation |
| 10. | Ammonia as N | IS 3025 P-34 (1988) | <0.1 | mg/l | 0.5 | No Relaxation |
| 11. | Sulphate as SO_4 | IS 3025 P-24 (1986) | 65.5 | mg/l | 200 | 400 |
| 12. | Nitrate as NO_3 | IS 3025 P-34 (1988) | 13.2 | mg/l | 45 | No Relaxation |
| 13. | Fluoride as F | APHA,22 nd Edition | 0.62 | mg/l | 1 | 1.5 |
| 14. | Iron as Fe | IS 3025 P-53 (2003) | 0.10 | mg/l | 1.0 | No Relaxation |
| 15. | Aluminium as Al | IS 3025 P-55(2003) | <0.01 | mg/l | 0.03 | 0.2 |
| 16. | Anionic Detergent | Annex K of IS:13428 | <0.05 | mg/l | 0.2 | 1 |
| 17. | Phenolic Compounds | IS 3025 P-43 (1992) | <0.001 | mg/l | 0.001 | 0.002 |
| 18. | Boron as B | IS 3025 P-57 (2005) | <0.1 | mg/l | 0.5 | 2.4 |
| 19. | Chromium as Cr | IS 3025 P-52 (2003) | <0.01 | mg/l | 0.05 | No Relaxation |
| 20. | Lead as Pb | IS 3025 P47 (1994) | <0.01 | mg/l | 0.01 | No Relaxation |
| 21. | Copper as Cu | IS 3025 P42 (1992) | <0.01 | mg/l | 0.05 | 1.5 |
| 22. | Mercury as Hg | IS 3025 P-48 (1994) | <0.001 | mg/l | 0.001 | No Relaxation |
| 23. | Manganese as Mn | IS 3025 P-59 (2006) | <0.01 | mg/l | 0.1 | 0.3 |
| 24. | Zinc as Zn | IS 3025 P-49 (1994) | <0.01 | mg/l | 5 | 15 |
| 25. | Arsenic as As | IS 3025 P-37 (1988) | <0.01 | mg/l | 0.01 | No Relaxation |
| 26. | Nickel as Ni | IS 3025 P-54 (2003) | <0.01 | mg/l | 0.02 | No Relaxation |
| 27. | Cadmium as Cd | IS 3025 P-41 (1992) | <0.001 | mg/l | 0.003 | No Relaxation |

3.3.4 Discussion on Groundwater Quality in the Study Area

From the above tables, it is observed that all physical and chemical parameters are found within the permissible limits. However, parameters like Total Hardness, Total Dissolve Solid, Total Alkalinity, and Magnesium exceeds the acceptable limit as per IS: 10500

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. One sample of soil was collected from the project site for studying soil characteristics, the location of which is listed in **Table 3.8**.

Table 3.8 Details of Soil Quality Monitoring Location

| S. No. | Location Code | Location Name/ Description |
|--------|---------------|----------------------------|
| 1. | S1 | Site Office |

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, 2023.

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 and Inductive Coupled Plasma Analyzer.

3.4.3 Soil Monitoring Results

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 | Results | Unit |
|-------|-------------------------------|---------------------|---------|----------------|
| 1. | pH | IS 2720 P-26 (1987) | 8.26 | -- |
| 2. | Conductivity | IS 14767 (RA 2016) | 552.0 | µS/cm |
| 3. | Moisture | IS 2720 P-25 (1972) | 13.5 | % by mass |
| 4. | Water Holding Capacity | IRDH/SOP-SL/07 | 21.2 | % |
| 5. | Specific Gravity | IS 2720 P-3 (1980) | 1.90 | - |
| 6. | Bulk density | IRDH/SOP-SL/06 | 1.40 | gm/cc |
| 7. | Chloride | IRDH/SOP-SL/14 | 292.0 | mg/kg |
| 8. | Calcium | IRDH/SOP-SL/17 | 1610.0 | mg/kg |
| 9. | Sodium | IRDH/SOP-SL/11 | 144.0 | mg/kg |
| 10. | Potassium | IRDH/SOP-SL/12 | 76.5 | mg/kg |
| 11. | Magnesium | IRDH/SOP-SL/16 | 230.0 | mg/kg |
| 12. | Organic matter | IS 2720 P-22 (1972) | 0.62 | % by mass |
| 13. | Cation Exchange Capacity(CEC) | IRDH/SOP-SL/09 | 14.2 | meq/100gm |
| 14. | Available nitrogen | IS 14684(1999) | 49.5 | mg/kg |
| 15. | Available Phosphorous | IRDH/SOP-SL/10 | 8.22 | mg/kg |
| 16. | Iron as Fe | IRDH/SOP-SL/22 | 2104.0 | mg/kg |
| 17. | Copper as Cu | IRDH/SOP-SL/21 | 18.2 | mg/kg |
| 18. | Zinc as Zn | IRDH/SOP-SL/20 | 30.5 | mg/kg |
| 19. | Texture | IRDH/SOP-SL/08 | | % by mass |
| | Sand | | 60.7 | |
| | Clay | | 25.8 | |
| | Silt | | 13.5 | |
| 20. | Sodium Absorption Ratio(SAR) | IRDH/SOP-SL/13 | 0.88 | By calculation |

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.

ANNEXURE I

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

No. SEIAA/HR/2017/682

Dated: 24-10-2017

To

M/s JD Universal Infra Ltd,
Aegis Value Homes Ltd, SCO 243,
Sector-12, City Centre, Karnal-132001, Haryana.

Subject: Environmental Clearance for proposed Affordable Group Housing Scheme measuring 5.6534 acres in Sector-32-A, Karnal, Haryana.

Dear Sir,

This letter is in reference to your application no. nil dated 02.06.2016 addressed to M.S. SEIAA, Haryana received on 14.09.2016 and subsequent letters dated 03.03.2017 and 21.06.2017 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, Form1-A, Conceptual Plan and additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF & CC, GOI vide their Notification 21.08.2015, in its meetings held on 29.09.2016, 06.04.2017 and 11.07.2017 awarded "Gold" grading to the project.

[2] It is inter-alia, noted that the project involves the construction of Affordable Group Housing Scheme measuring 5.6534 acres in Sector-32-A, Karnal, Haryana on a total plot area of 22878.46 sqm (5.6534 Acre). The total built up area shall be 62411.142 sqm. The proposed Project shall comprise of 8 Residential Tower + 1 Commercial Block, S/GF + 14 floors, Crèche. The maximum height of the building shall be 44.95 meter. The total water requirement shall be 428 KLD. The fresh water requirement shall be 293 KLD. The waste water generation shall be 341 KLD, which will be treated in the STP of 410 KLD capacity. The total power requirement shall be 3000 KW which will be supplied by UHBVN. The Project Proponent has proposed to develop green belt on 5721.76 sqm (25.01%) of project area (1486.70 sqm tree periphery plantation + 823.16 sqm of avenue plantation + Lawn area 3411.903 sqm). The Project Proponent proposed to construct 06 rain water harvesting pits. The solid waste generation will be 2.34 TPD. The bio-degradable waste will be treated in the project area by installation of OWC (organic waste converter). The total parking spaces proposed are 509 ECS.

[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 07.09.2017 decided to agree with the recommendations of SEAC to accord necessary environmental clearance for the project under Category 8(a) 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 before the start of any construction work at site.
- [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 shall be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by the laboures is strictly prohibited. The safe disposal of solid wastes/ waste water generated during the construction phase should be ensured. Efforts shall be made to provide mobile STP for treatment of waste water during the construction phase.
- [4] All the topsoil excavated during construction activities shall 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 shall 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 shall 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 pollution and noise level during construction phase, so as to conform to the stipulated residential standards of CPCB/MoEF.

- [10] Fly ash shall 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 shall 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 must meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material.
- [15] Opaque wall must 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 lightning 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 as stated in the proposal shall construct total 06 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 obtain assurance from the UHBVN for supply of 3000 KW 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.
- [21] Detail calculation of power load and ultimate power load of the project shall be submitted to UHBVN 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. 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 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.
- [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.
- [29] The project proponent shall provide proper rasta of proper width and proper strength for the project before the start of construction.
- [30] 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.
- [31] The project proponent shall adequately control construction dusts like silica dust, non-silica dust and wood dust. Such dusts shall not spread outside project premises.

Project Proponent shall provide respiratory protective equipment to all construction workers.

- [32] 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 treatment of bio-degradable waste, STP, water supply line, dual plumbing line, electric supply lines etc. and shall offer possession of the units/flats thereafter.
- [33] The project proponent shall provide one refuge area till 24 meter and 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.
- [34] The project proponent shall provide fire control room and fire officer for building above 30 meter as per National Building Code.
- [35] The project proponent shall obtain permission of Mines and Geology Department for excavation of soil before the start of construction.
- [36] 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.
- [37] The project proponent shall submit the copy of fire safety plan duly approved by Fire Department before the start of construction.
- [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.
- [39] The project proponent shall maintain the distance between STP and water supply line.
- [40] The project proponent shall ensure that the stack height is 6 meter more than the highest tower.
- [41] The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 on Richter scale.

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 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 2mg/liter. Similarly total Nitrogen level shall be less than 2mg/liter 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 proponent shall essentially provide one number of STP preferably equivalent to 50% of total capacity or as per the initial occupancy as the case may be.

- [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 5 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] 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 shall be in the open as promised by the project proponent with appropriate stack height above the highest roof level of the project as per the CPCB norms. The diesel used for DG sets shall be ultra low sulphur diesel (35 ppm sulphur), instead of low sulphur diesel.
- [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 Affordable Group Housing Project.
- [g] The project proponent as stated in the proposal should maintain at least 25.01% 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 shall be preferably landscaped and covered with vegetation/grass, herbs & shrubs. Only locally available plant species shall be used.
- [h] 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.
- [i] 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.

- [j] The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- [k] 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.
- [l] Energy conservation measures like installation of LED only for lighting the areas outside the building and inside 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.
- [m] 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.
- [n] 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 (proposed OWC) 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.
- [o] 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.
- [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.
- [q] The Project shall be operationalized only when HUDA/local authority will provide domestic water supply system in the area.
- [r] Operation and maintenance of STP, solid waste management and electrical Infrastructure, pollution control measures shall be ensured even after the completion of project.

- [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 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 shall be disposed of to only registered and authorized dismantler / recycler.
- [t] Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied with.
- [u] Water supply shall be metered among different users and different utilities.
- [v] The project proponent shall ensure that the of DG sets is more than the highest tower and also ensure that the emission standards of noise and air are within the CPCB latest 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.
- [w] All electric supply exceeding 100 amp, 3 phase shall maintain the power factor between 0.98 lag to 1 at the point of connection.
- [x] The project proponent shall not use 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 at all needed. 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 (CoP), 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.
- [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.
- [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-wash under any meteorological conditions.
- [aa] 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.
- [ab] The project proponent shall ensure proper Air Ventilation and light system in the basements 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 the extent of 30 must be provided by the project proponent.

- [ac] The project proponent shall ensure drinking/ domestic water supply as per prescribed standards till treated water supply is made available by HUDA.
- [ad] The project proponent shall install solar panel for energy conservation.

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] The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the northern Regional Office of MoEF, HSPCB 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.
- [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 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.
- [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 licensee/licensees in whose name/names the license/CLU has been granted by the Town & Country Planning Department, Haryana.
- [xvii] The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO_X NO_X, Ozone, Lead, CO, Benzene, Ammonia, Benzopyrine, arsenic and Nickel. (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

[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 along with the status of compliance of the EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

[xix] The project proponent shall conduct environment audit at every three months 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.

[xx] Corporate Environment and Social Responsibility (CSER) shall be laid down by the project proponent (2% shall be earmarked) as per guidelines of MoEF, GoI Office Memorandum No. J-11013/41/2006-IA.II(I) dated 18.05.2012 and Ministry of Corporate Affairs, GoI Notification Dated 27.02.2014. A separate audit statement shall be submitted in the compliance. Environment related work proposed to be executed under this responsibility shall be undertaken simultaneously. The project proponent shall select and prepare the list of the work for implementation of CSER of its own choice and shall submit the same before the start of construction.

[xxi] The validity of this environment clearance letter is valid up to 7 years from the date of issuance of EC letter. The environment clearance conditions applicable till life space project in case of Residential project will continue to apply. The resident welfare association/Housing co-operative societies shall responsible to comply conditions laid down in EC. In case of violation the action would be taken as per the laid down law of land. Compliance report should be sent to this office till life of the project.


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

Endst. No. SELAA/HR/2017/

Dated:.....

A copy of the above is forwarded to the following:

1. The Additional Director (IA Division), MoEF&CC, GoI, Indra Paryavaran Bhavan, Zor bagh Road-New Delhi.
2. The Regional office, Ministry of Environment, Forests & Climate Change, 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, Pkl.


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

Directorate of Town and Country Planning, Haryana

SCO No. 71-75, 2nd Floor, Sector-17 C, Chandigarh, web site: tcpharyana.gov.in
Phone: 0172-2549349; e-mail: tcphry6@gmail.com

Regd.

To

JD Universal Infra Ltd.,
Regd. Office: 35, Basement, Community Center,
Vasant Vihar, Delhi- 110057.

Memo No. LC-3070-JE (SK)/2017

Dated:

Subject: Request for Transfer of licence land from land owning company i.e. JD Universal Infra Ltd. to the name of Aegis Value Homes Ltd. w.r.t licence no. 02 of 2016 dated 05.03.2016 granted to develop a Affordable Group Housing Colony in the revenue estate of Village Budhakhera, Sector 32A, Karnal.

Reference: Your application dated 23.12.2016.

In this respect it is intimated that it has been decided in principle to grant you permission under Rule 17 of the Haryana Development and Regulation of urban Areas Rules, 1976 framed under Act No.8 of 1975 to transfer of licence No. 02 of 2016 dated 05.03.2016 to Aegis Value Homes Ltd. which was earlier granted to you. You are therefore, directed to transfer the ownership of the above licenced land in favour of Aegis Value Homes Ltd. in whose favour the said licence is to be transferred and submit the following documents within 90 days of issuance of this letter :-

1. Revenue documents showing the ownership of land in favour of Aegis Value Homes Ltd.
2. Original licence No. 02 of 2016 dated 05.03.2016.

1

(Lalit Kumar)
District Town Planner (HQ),
For Director, Town and Country Planning,
Haryana, Chandigarh.

Endst. No. LC-3070-JE (SK) 2017/ 30810

Dated: 01-12-2017

A copy is forwarded to Aegis Value Homes Ltd, 243, Sector-12, City Center, Karnal-132001 with the request to submit/furnish the following documents within 90 days of issuance of this letter:-

1. An undertaking to abide by the provisions of Act/ Rules and all the directions that may be given by the Director, Town & Country Planning, Haryana, Chandigarh in connection with the above said licence No. 02 of 2016 dated 05.03.2016 granted in the name of JD Universal Infra Ltd. in collaboration with Aegis Value Homes Ltd.
2. That the company Aegis Value Homes Ltd. undertakes to fulfill all the terms and condition of the Agreement LC-IV, Bilateral Agreement and undertakings given by the JD Universal Infra Ltd. in collaboration with Aegis Value Homes Ltd.
3. That the company will settle all the pending/ outstanding issues if any in respect of all prospective allottees.
4. That the company undertakes that they will also be liable to pay all outstanding dues on account of EDC and interest thereon as on date and in future directly to the department/HUDA as per schedule given in the agreements.
5. Aegis Value Homes Ltd. will clear the outstanding dues on account of EDC.
6. Indemnity bond indemnifying DTCP/State Govt. from the loss offered or legal complication, if any arises from transfer of license and creation of third party rights on the proposed land.
7. You shall inform general public regarding transfer of licence no. 2 of 2016 through publication in the leading newspaper (2 English+1 Hindi) and also in their website within 15 days of in-principle approval. Senior Town Planner, Panchkula shall be requested to send the report on the public notice after expiry of 30 days.


(Lalit Kumar)

District Town Planner (HQ),
For Director, Town and Country Planning,
Haryana, Chandigarh.

ANNEXURE II



**HARYANA STATE POLLUTION CONTROL
BOARD**
**SCO-131 Sector-17, HUDA Jagadhari Ph.01732-
200137**



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

Telephone No.: 0172-2577870-73

No. HSPCB/Consent/ : 329962318KARCTE4904497

Dated:16/02/2018

To.

M/s : AEGIS VALUE HOMES LIMITED
Village Budha Khera Sector 32 A Distt Karnal
KARNAL
132001

**Sub. : Grant of consent to Establish to M/s AEGIS VALUE HOMES
LIMITED**

Please refer to your application no. 4904497 received on dated 2018-02-12 in regional office Yamuna Nagar.

With reference to your above application for consent to establish,M/s AEGIS VALUE HOMES LIMITED is here by granted consent as per following specification/Terms and conditions.

| | |
|---|---|
| Consent Under | AIR/WATER |
| Period of consent | 06/01/2018 - 23/10/2024 |
| Industry Type | Building and construction project more than 20,000 sq.m built up area having waste water generation more than 100 KLD |
| Category | RED |
| Investment(In Lakh) | 8488.67969 |
| Total Land Area (Sq. meter) | 22878.46 |
| Total Builtup Area (Sq. meter) | 60736.92 |
| Quantity of effluent | |
| 1. Trade | 0.0 KL/Day |
| 2. Domestic | 625.0 KL/Day |
| Number of outlets | 1.0 |
| Mode of discharge | |
| 1. Domestic | STP |
| 2. Trade | NA |
| Permissible Domestic Effluent Parameters | |
| 1. BOD | 30 mg/l |
| 2. COD | 250 mg/l |
| 3. TSS | 100 mg/l |
| 4. Ph min | 5.5 mg/l |

| | |
|--|----------|
| 5. Ph max | 9.0 mg/l |
| Permissible Trade Effluent Parameters | |
| 1. NA | 0 mg/l |
| Number of stacks | 1 |
| Height of stack | |
| 1. NA | 0 0 |
| Permissible Emission parameters | |
| 1. NA | 0 |
| Capacity of boiler | |
| 1. NA | 0 Ton/hr |
| Type of Furnace | |
| 1. Nil | 0 0 |
| Type of Fuel | |
| 1. NA | 0 |

Regional Officer, Yamuna Nagar

Haryana State Pollution Control Board.

Terms and conditions

HARYANA STATE

1. The industry has declared that the quantity of effluent shall be 625 KL/Day i.e 0KL/Day for Trade Effluent, 0 KL/Day for Cooling, 625 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.

26. That unit will obtain consent to operate from the board before the start of product activity.

Specific Conditions

Other Conditions :

1. The CTE is granted for establishing the Project on land for which Licence/ Permission has been granted by Town and Country Planning Deptt. and for which Environmental clearance has been obtained by the unit.
2. The unit will install adequate acoustic enclosures/chambers on their DG SETS with proper stack height as per prescribed norms to meet the prescribed standards under EP Rules,1986.
3. Unit will provide adequate Sewage treatment plant as proposed to meet the prescribed standards under EP Rules,1986.
4. Unit will utilize their treated effluent as proposed.
5. The unit will not use any source of air emission except DG sets.
6. Unit will comply with all general and specific conditions of Environmental Clearance granted by SEIAA.

*Regional Officer, Yamuna Nagar
Haryana State Pollution Control Board.*



HARYANA STATE

ANNEXURE III

IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.



TC No. 5912

(MOEF&CC Recognized Laboratory)
 (ISO 9001:2015/ISO 14001:2015/ISO 45001:2018)
 C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)

Tel. : +91 120 4215489, E-mail : contact.irdh@gmail.com



TEST REPORT

(Water)

Page 1/2

| | |
|---------------------------------|--|
| Report No. : | IRDH-0323-COM- WQ-600 |
| Date of Reporting | 31/03/2023 |
| Issued to | M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085 |
| Project Name | Affordable Group Housing Scheme measuring 5.6534 acres in Sector- 32A, Karnal, Haryana |
| Nature of Sample | Ground Water |
| Identification of Sample | Water collected from nearby project area |
| Date of Sampling | 25/03/2023 |
| Method of sampling | As per standard method |
| Date of testing: | 25/03/2023 To 31/03/2023 |
| Sampled by | IR&DH – Team |

RESULTS

| S No. | Parameter | Test Protocol | Results | Unit | Requirements as per IS 10500- 2012 | |
|-------|---------------------------------------|---------------------|---------|------|------------------------------------|-------------------------|
| | | | | | Acceptable limits(Max) | Permissible limits(Max) |
| 1. | pH | IS 3025 P-11 1983 | 7.78 | -- | 6.5-8.5 | No Relaxation |
| 2. | Turbidity | IS 3025 P-10 (1984) | <0.5 | NTU | 1 | 5 |
| 3. | Total Hardness | IS 3025 P-21 (2009) | 376.0 | mg/l | 200 | 600 |
| 4. | Total Dissolved Solids (TDS) | IS 3025 P-16(1984) | 796.0 | mg/l | 500 | 2000 |
| 5. | Calcium as Ca | IS 3025 P-40 (1991) | 72.0 | mg/l | 75 | 200 |
| 6. | Magnesium as Mg | IS 3025 P-46 (1994) | 47.62 | mg/l | 30 | 100 |
| 7. | Total Alkalinity as CaCO ₃ | IS 3025 P-23 (1986) | 380.0 | mg/l | 200 | 600 |
| 8. | Chloride as Cl | IS 3025 P-32 (1988) | 173.0 | mg/l | 250 | 1000 |
| 9. | Barium as Ba | Annex F of IS:13428 | <0.05 | mg/l | 0.7 | No Relaxation |
| 10. | Ammonia as N | IS 3025 P-34 (1988) | <0.1 | mg/l | 0.5 | No Relaxation |
| 11. | Sulphate as SO ₄ | IS 3025 P-24 (1986) | 65.5 | mg/l | 200 | 400 |
| 12. | Nitrate as NO ₃ | IS 3025 P-34 (1988) | 13.2 | mg/l | 45 | No Relaxation |

Head Office: G-8/6, Ground Floor,
 Sector-11, Rohini, Delhi-110085
 Tel.: +91 11 27571410, 64607252
 E-mail : ithconsult@hotmail.com





TC No. 5912

IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

(MOEF&CC Recognized Laboratory)
 (ISO 9001:2015/ISO 14001:2015/ ISO 45001:2018)
 C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)

Tel. : +91 120 4215489, E-mail : contact.irdh@gmail.com



Report No. – IRDH-0323-COM- WQ-600

Page: 2/2

| S No. | Parameter | Test Protocol | Results | Unit | Requirements as per IS 10500- 2012 | |
|-------|--------------------|-------------------------------|---------|------|------------------------------------|-------------------------|
| | | | | | Acceptable limits(Max) | Permissible limits(Max) |
| 13. | Fluoride as F | APHA,23 rd Edition | 0.62 | mg/l | 1 | 1.5 |
| 14. | Iron as Fe | IS 3025 P-53 (2003) | 0.10 | mg/l | 1.0 | No Relaxation |
| 15. | Aluminium as Al | IS 3025 P-55(2003) | <0.01 | mg/l | 0.03 | 0.2 |
| 16. | Anionic Detergent | Annex K of IS:13428 | <0.05 | mg/l | 0.2 | 1 |
| 17. | Phenolic Compounds | IS 3025 P-43 (1992) | <0.001 | mg/l | 0.001 | 0.002 |
| 18. | Boron as B | IS 3025 P-57 (2005) | <0.1 | mg/l | 0.5 | 2.4 |
| 19. | Chromium as Cr | IS 3025 P-52 (2003) | <0.01 | mg/l | 0.05 | No Relaxation |
| 20. | Lead as Pb | IS 3025 P47 (1994) | <0.01 | mg/l | 0.01 | No Relaxation |
| 21. | Copper as Cu | IS 3025 P42 (1992) | <0.01 | mg/l | 0.05 | 1.5 |
| 22. | Mercury as Hg | IS 3025 P-48 (1994) | <0.001 | mg/l | 0.001 | No Relaxation |
| 23. | Manganese as Mn | IS 3025 P-59 (2006) | <0.01 | mg/l | 0.1 | 0.3 |
| 24. | Zinc as Zn | IS 3025 P-49 (1994) | <0.01 | mg/l | 5 | 15 |
| 25. | Arsenic as As | IS 3025 P-37 (1988) | <0.01 | mg/l | 0.01 | No Relaxation |
| 26. | Nickel as Ni | IS 3025 P-54 (2003) | <0.01 | mg/l | 0.02 | No Relaxation |
| 27. | Cadmium as Cd | IS 3025 P-41 (1992) | <0.001 | mg/l | 0.003 | No Relaxation |

End of Report

Dr. SNA Rizvi
 Authorized Signatory

1- Test Report is limited to the invoice raised/item tested.
 2- Test Report cannot be reproduced in a part or as whole in court without laboratory permission.
 3- Samples shall be retained for 4 weeks after test report submitted.



TC No. 5912

IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

(MOEF&CC Recognized Laboratory)
 (ISO 9001:2015/ISO 14001:2015/ISO 45001:2018)
 C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)

Tel. : +91 120 4215489, E-mail : contact.irdh@gmail.com



TEST REPORT

(Soil)

| | |
|--------------------------|--|
| Report No. : | IRDH-0323-COM- SL-600 |
| Date of Reporting | 31/03/2023 |
| Issued to | M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085 |
| Project Name | Affordable Group Housing Scheme measuring 5.6534 acres in Sector- 32A, Karnal, Haryana |
| Nature of Sample | Soil |
| Identification of Sample | Soil sample collected from Project site |
| Date of Sampling | 25/03/2023 |
| Method of sampling | As per standard method |
| Date of testing: | 25/03/2023 To 31/03/2023 |
| Sampled by | IR&DH - Team |

RESULTS

| S. No. | Parameter | Test Method | Results | Unit |
|--------|-------------------------------|---------------------|---------|-----------|
| 1. | pH | IS 2720 P-26 (1987) | 8.26 | -- |
| 2. | Conductivity | IS 14767 (RA 2016) | 552.0 | µS/cm |
| 3. | Moisture | IS 2720 P-25 (1972) | 13.5 | % by mass |
| 4. | Water Holding Capacity | IRDH/SOP-SL/07 | 21.2 | % |
| 5. | Specific Gravity | IS 2720 P-3 (1980) | 1.90 | - |
| 6. | Bulk density | IRDH/SOP-SL/06 | 1.40 | gm/cc |
| 7. | Chloride | IRDH/SOP-SL/14 | 292.0 | mg/kg |
| 8. | Calcium | IRDH/SOP-SL/17 | 1610.0 | mg/kg |
| 9. | Sodium | IRDH/SOP-SL/11 | 144.0 | mg/kg |
| 10. | Potassium | IRDH/SOP-SL/12 | 76.5 | mg/kg |
| 11. | Magnesium | IRDH/SOP-SL/16 | 230.0 | mg/kg |
| 12. | Organic matter | IS 2720 P-22 (1972) | 0.62 | % by mass |
| 13. | Cation Exchange Capacity(CEC) | IRDH/SOP-SL/09 | 14.2 | meq/100gm |
| 14. | Available nitrogen | IS 14684(1999) | 49.5 | mg/kg |
| 15. | Available Phosphorous | IRDH/SOP-SL/10 | 8.22 | mg/kg |

Head Office: G-8/6, Ground Floor,
 Sector-11, Rohini, Delhi-110085
 Tel.: +91 11 27571410, 64607252
 E-mail : ithconsult@hotmail.com





IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.



TC No. 5912

(MOEF&CC Recognized Laboratory)
(ISO 9001:2015/ISO 14001:2015/ISO 45001:2018)
C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)

Tel. : +91 120 4215489, E-mail : contact.irdh@gmail.com

Report No. – IRDH-0323-COM- SL-600

Page: 2/2

| S. No. | Parameter | Test Method | Results | Unit |
|--------|------------------------------|----------------|---------|----------------|
| 16. | Iron as Fe | IRDH/SOP-SL/22 | 2104.0 | mg/kg |
| 17. | Copper as Cu | IRDH/SOP-SL/21 | 18.2 | mg/kg |
| 18. | Zinc as Zn | IRDH/SOP-SL/20 | 30.5 | mg/kg |
| 19. | Texture | IRDH/SOP-SL/08 | | % by mass |
| | Sand | | 60.7 | |
| | Clay | | 25.8 | |
| | Silt | | 13.5 | |
| 20. | Sodium Adsorption Ratio(SAR) | IRDH/SOP-SL/13 | 0.88 | By calculation |

End of Report

Dr. SNA Rizvi
Authorized Signatory

- 1- Test Report is limited to the invoice raised/item tested.
- 2- Test Report cannot be reproduced in a part or as whole in court without laboratory permission.
- 3- Samples shall be retained for 4 weeks after test report submitted.



TC No. 5912

IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

(MOEF&CC Recognized Laboratory)
 (ISO 9001:2015/ISO 14001:2015/ ISO 45001:2018)
 C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)

Tel. : +91 120 4215489, E-mail : contact.irdh@gmail.com



TEST REPORT (Ambient Air)

| | |
|--------------------------|--|
| Report No | IRDH-0323-COM-AAQ-600 |
| Date of Reporting | 31/03/2023 |
| Issued to | M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085 |
| Project Name | Affordable Group Housing Scheme measuring 5.6534 acres in Sector-32A, Karnal, Haryana |
| Location | Project site |
| Date of Sampling | 25/03/2023 to 26/03/2023 |
| Type of Monitoring | Ambient Air Monitoring (24 hourly) |
| Parameters to be sampled | PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , CO, Ozone, Pb, NH ₃ , C ₆ H ₆ , Benzo a Pyrene, As, Ni |
| Weather condition | Clear sky |
| Method of sampling | As per standard Method |
| Sample drawn by | IR&DH Team |

RESULTS

| S. No | Parameter | Method | Results | Unit | Requirement (CPCB limits)* |
|-------|--|-----------------------|---------|-------------------|----------------------------|
| 1. | Particulate Matter as PM _{2.5} | IRDH/SOP/AAQM/01:2013 | 65.0 | µg/m ³ | 60 |
| 2. | Particulate Matter as PM ₁₀ | IS 5182 P- 23:2012 | 166.0 | µg/m ³ | 100 |
| 3. | Sulphur dioxide as SO ₂ | IS 5182 P-02: 2012 | 09.0 | µg/m ³ | 80 |
| 4. | Nitrogen dioxide as NO ₂ | IS 5182 P-06: 2012 | 23.5 | µg/m ³ | 80 |
| 5. | Carbon monoxide as CO | IRDH/SOP/AAQM/08:2015 | 0.80 | mg/m ³ | 4.0 |
| 6. | Ozone (as O ₃) | IRDH/SOP/AAQM/10:2015 | 09.0 | µg/m ³ | 100 (8 Hourly) |
| 7. | Lead (Pb) | IS:5182 Part 22:2014 | <0.1 | µg/m ³ | 1 |
| 8. | Ammonia (NH ₃) | IRDH/SOP/AAQM/09:2015 | 13.6 | µg/m ³ | 400 |
| 9. | Benzene (C ₆ H ₆) | IRDH/SOP/AAQM/11:2015 | <1.0 | µg/m ³ | 5 |
| 10. | Benzo alpha Pyrene | IRDH/SOP/AAQM/12:2015 | <1.0 | ng/m ³ | 1 |
| 11. | Arsenic (As) | IRDH/SOP/AAQM/06:2013 | <1.0 | ng/m ³ | 6 |
| 12. | Nickel (Ni) | IRDH/SOP/AAQM/07:2015 | <1.0 | ng/m ³ | 20 |

*Gazette notification published by MoEF&CC, New Delhi on 18 Nov. 2009

End of Report

Dr. SNA Rizvi
 Authorized Signatory

1- Test Report is limited to the invoice raised/item tested.

2- Test Report cannot be reproduced in a part or as whole in court without laboratory permission.

3- Samples shall be retained for 4 weeks after test report submitted.



IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.



TC No. 5912

(MOEF&CC Recognized Laboratory)
(ISO 9001:2015/ISO 14001:2015/ISO 45001:2018)
C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)

Tel. : +91 120 4215489, E-mail : contact.irdh@gmail.com

TEST REPORT (Ambient Noise)

| | |
|------------------------|---|
| Report No | IRDH-0323-COM-ANQ-600 |
| Date of Reporting | 31/03/2023 |
| Issued to | M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085 |
| Project Name | Affordable Group Housing Scheme measuring 5.6534 acres in Sector-32A, Karnal, Haryana |
| Location | Project site(ANQ 1) |
| Date of Sampling | 25/03/2023 to 26/03/2023 |
| Type of Monitoring | Ambient Noise Monitoring |
| Method of sampling | IRDH/SOP-NS/22 |
| Duration of Monitoring | 24 hourly |
| Sample drawn by | IR&DH Team |

RESULTS

All values are in dB (A)

| Sr. No. | Locations | Day Time (Lday) 06:00AM - 10:00PM | Night Time (Lnigh) 10:00PM - 06:00AM |
|---------|--------------|--------------------------------------|---|
| ANQ -1 | Project site | 52.7 | 41.7 |

| CPCB Limits | | | |
|-------------|------------------|----------|------------|
| Sr. No | | Day Time | Night Time |
| 1. | Industrial area | 75 | 70 |
| 2. | Commercial area | 65 | 55 |
| 3. | Residential area | 55 | 45 |
| 4. | Silence Zone | 50 | 40 |

End of Report



1- Test Report is limited to the invoice raised/item tested.
2- Test Report cannot be reproduced in a part or as whole in court without laboratory permission.
3- Samples shall be retained for 4 weeks after test report submitted.

ANNEXURE IV

Registered Office:

55, 2nd Floor, Lane-2, Westend Marg,
Saidulajab, Near Saket Metro Station,
South Delhi, New Delhi – 110030
CIN : U70109DL2012PLC235725

Corporate Office:

Aegis Value Homes Limited, Near Radha Swami Satsang Centre, 3rd, Ground Floor,
Gold Floors Behind Beanstalk School, Sector-33, Karnal, Haryana-132001

Ref.: -AVHL/2020-21/

Date: -09.10.2020

To

The Regional Director
Central Ground Water Board,
North Western Region, Bhujal Bhawan,
Plot No. 3A, Sector 27-B,
Chandigarh 160019

Subject:-Application for issuance of NOC to abstract ground water for Construction Activity of the Project-SMART HOMES KARNAL of M/s.Aegis Value Homes Ltd. (the Company)

Ref.: -License no. 2 of 2016 dated 05.03.2016 granted for setting up of Affordable Group Housing Colony over an area measuring 5.6534 Acres in the revenue estate of village Budhakhera, Sector 32 A, Distt. Karnal.(Copy Attached)

Dear Sir,

With reference to subject matter and license as mentioned in the above reference, it is to inform that the Company is required to have/ use the ground water for construction activity of the Project. As the online portal i.e. <http://cgwa-noc.gov.in/> is not functional due to maintenance activity, this application being submitted in physical form.

All the requisite documents as mentioned below, as attached herewith for processing this application:-

1. Consent to operate/establish/Approval letter from statutory bodies viz Ministry of Environment & Forest (MoE F);
2. Certificate of water availability/non availability from government water supplying agency.
3. Proposal for rainwater harvesting / artificial recharge as per the “Guidelines / Criteria for Evaluation of Proposals / Requests for Ground Water Abstractio;
4. Comprehensive report on groundwater conditions in and around 5 km of the areas required if the industry extracts groundwater 500 m3/day or more;

Arvind
09/10/2020
कान्द्रोव भवित्वना 2019
उनर प्लॉट्स एस. 27-
3 की, सेक्टर 27-ए
चंडीगढ़

5. Ground water quality report of all existing tube wells may be done through government approved lab;

In view of the above, you are hereby requested to kindly acknowledge this application and process the same for issuance of NOC to abstract the ground water, under the terms and conditions as may be stipulated therein.

Thanking you

For M/S.AEGIS VALUE HOMES LTD.
For Aegis Value Homes Limited

Sandeep Sharma
(Sandeep Sharma)
Authorized Signatory

Encl.:-As Above.

ANNEXURE V

Haryana Institute of Civil Aviation

Civil Aerodrome, Kunjpura Road, Karnal-132001 (Haryana) INDIA
Ph.# 91-0184-2267531, 2265285

To

AEGIS
Value Home Ltd.
243, Sector-12
City Center
Karnal-132001

Ref. No: HICA/2014/^{OIC}AS/21
Dated, Karnal the,

18 April 2015

SUB: Request for issue of NOC

Sir,

This is in ref. to your office letter No. NIL dated 3rd March-2015 regarding a group housing project in sector-32A village Budhakhera Sector-32A, Distt-Karnal. Your case is examined in details area falls in our local flying area. At a dist. of less than 1 K.M. As per clearance from o/o DTE of Town and Country Planning and as per submitted site plan. You are cleared construct the building as per approved plan on approved site with conditions mentioned below:

1. You will paint red and white chequered on water tanks on the top of buildings
2. You will install Red Aviation Light on highest point of buildings
3. Lights will be put on after sunset to sun rise.

Yours faithfully,


Officer in-charge
Civil Aerodrome
Karnal

ANNEXURE VI

वन विभाग, हरियाणा सरकार

कार्यालय : वन मण्डल अधिकारी (क्षेत्रीय), करनाल

पा. नृपलैक्स, नजदीक रेलवे स्टेशन, करनाल, दूरगाम / फैक्स नं० : ०१८४-२२४१४१७, E-mail : dfokarnal@yahoo.co.in

मांक :

857

दिनांक : 19/8/16

सेवा में

Sh. Divey Dhamija, Director,
M/s Aegis Value Homes Ltd.
Corporate Office - 243, Sector 12,
City Center, Karnal.

विषय :-

Request for Issue of NOC for Housing Colony.

सन्दर्भ :-

आपका प्रार्थना पत्र दिनांक 09-05-2016.

-----x-----

उपरोक्त विषय के सम्बन्ध में आपको रूचित किया जाता है कि आप द्वारा प्रस्तुत किये गये ले आऊट नान व अक्सीजरे के अनुसार मौके का निरीक्षण किया गया तथा पाया गया कि जहां पर आप द्वारा गांव पुढ़ाखेड़ा की जमीन पर Housing Colony व उसके रास्ते का निर्माण किया जायेगा। वहां पर वन संरक्षण अधिनियम 1980 की स्वीकृति की आवश्यकता नहीं है।

परन्तु प्रस्तुत किये गये ले आऊट प्लान व मौके के अनुसार Housing Colony की पिछली तरफ इन्द्री एस्टर की भूमि लगती है जोकि सुरक्षित वन क्षेत्र के अन्तर्गत आती है। अतः आपको निर्देश दिये जाते हैं कि आप कॉलोनी के पिछली तरफ भूमि से कम से कम 6 फुट की ऊंचाई तक आप द्वारा अपनी भूमि में बाऊँड़ी बाल (दीवार) बनाई जाए। ताकि भविष्य में सुरक्षित वन भूमि को किसी प्रकार के तुकसान व नाजायज कब्जे से बचाया जा सके। यदि आप सुरक्षित वन भूमि की तरफ किसी प्रकार का कोई निर्माण कार्य करना चाहते हैं तो आपको वन विभाग से तन संरक्षण अधिनियम 1980 के अन्तर्गत स्वीकृति प्राप्त करना अनिवार्य होगा। अन्यथा आपके विरुद्ध विभागीय कानूनी कार्यवाही अगल में लादी जायेगी।

Up

वन मण्डल अधिकारी (क्षेत्रीय)
करनाल।

ANNEXURE VII

From Director General

Fire Service, Haryana Panchkula

To **M/s** DIVEY SINDHU DHAMIJA

URBAN ESTATE SECTOR 13 KARNAL

Memo No. FS/2020/179 dated : 22/07/2020

Subject : Approval of fire fighting scheme 15 mtrs. and Above from the fire safety point of view for Group A- Residential Building at SECTOR 32 A KARNAL of M/S AEGIS VALUE HOMES LTD :

Reference your Transaction Id 100602023000240 dated: 09/07/2020 on the subject cited above.

Your case for the approval of fire fighting scheme has been examined by the team of Fire Station Officers, Karnal, .The means of escape and Fire Protection system were checked and found as per the National Building Code of India, Part- IV guidelines. Therefore your proposed fire fighting scheme is hereby approved as per following detail from the fire safety point of view with the following conditions:-

| Tower Name | Floor Detail | Terrace Height of Last Livable Floor(In Meters) | Ground Coverage |
|-------------------|---------------------|--|------------------------|
| A1 to A6 | S/G+14 each | 44.95 mtr each | 553.879 Sq. mtrs. each |
| A7 | S/G+11 | 36.04 mtrs. | 528.454 Sq. mtrs. |
| B1 | S/G+9 | 30.10 mtrs. | 363.532 Sq. mtrs. |
| Commercial Block | G+1 | 8.3 mtrs. | 1601.237 Sq. mtrs. |

| Tower Name | Basement Level | Basement Area | Basement Remarks |
|-------------------|-----------------------|----------------------|-------------------------|
| | Nil | Nil | Nil |

- 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 and detectors above false ceiling & pendent sprinkler below false ceiling shall be installed in the building

Remarks:- Application Updated



Deputy Director (Technical)-I,
for Director General, Fire
Service, Haryana
Panchkula

Exercising the power of Director, Fire Services, Haryana

ANNEXURE VIII

UTTAR HARYANA BIJLI VITRAN NIGAM

To

AEGIS VALUE
HOME LIMITED
SECTOR-32-A, BUDHA KHERA

Memo No 583

Dated

25/05/2016

Sub:-

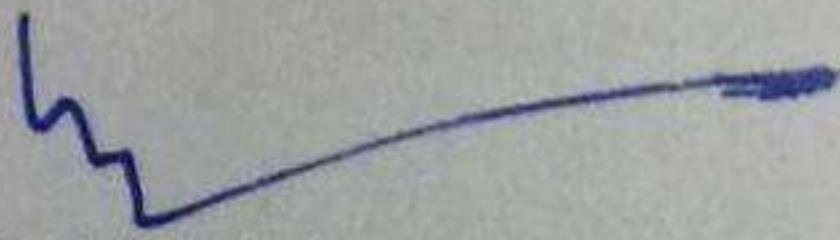
Letter of assurance of power connection to supply power for AEGIS
VALUE HOME LIMITED Sector-32-A, Budha Khera.

Ref:-

Your office letter dated 11.5.2016.

In this connection, it is intimated that in above area i.e Sector-32-A Budha Khera after completion of all formalities like submission of application , security other payable etc.UHBVN will provide 3000 KVA power connection to your project. In future after fulfilling the requirement for the same by the applicant trust as per prescribed rules and procedure subject to availability of load.

DA/AS Above


SDO S/U Sub Division
UHBVN, Karnal.

ANNEXURE IX



OFFICE OF THE EXECUTIVE ENGINEER, HUDA DIVISION KARNAL

To

The AEGIS Valve Homes Ltd.
SCO No. 243, Sec-12, City Center
Karnal (Haryana) – 132001

Memo No.

9997

Dated-

20-6-17

Subject:- Assurance of the Disposal of Treated Surplus sewerage water after the completion of project vide license no. 02 of 2016 for setting up of a Affordable Group Housing Colony in Sector-32A, village Budhakhera District Karnal.

Ref:- Your application dated 19.06.2017.

In this regard, it is intimated that the services of external sewerage, services etc. will be provided to the colonizer by the HUDA after executing/complete external development works at site. However, till date required arrangement for the same shall be made by the licensee at his own level.

W ✓
Executive Engineer,
HUDA Division, Karnal

V *BS*

From

The Executive Engineer,
HUDA Division, Karnal.

To

The AEGIS Valve Homes Ltd.,
SCO No. 243 Sec. 12, City Centre
Karnal (Haryana)-132001.

Memo No. 13043 Dated: 26/5/16

Subject:-

Assurance of the water supply drinking water during construction for labour and after completion of the project vide licence No. 02 of 2016 for setting up of a Affordable Group Housing Colony in sec. 32A Village Budhakhera, Distt., Karnal.

Ref:-

Your application dated 11.05.2016..

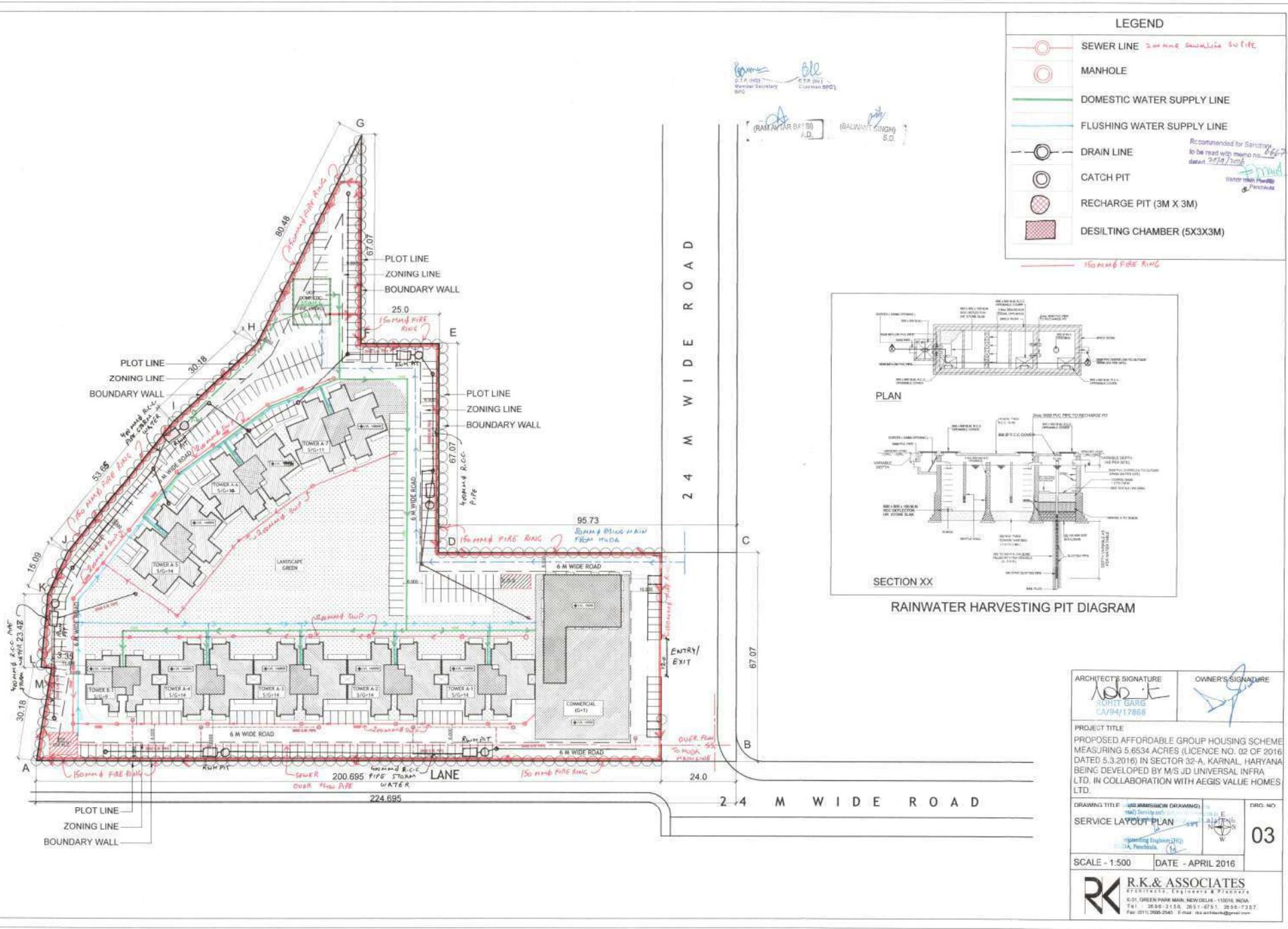
In this regard, it is intimated that the quantity of water supply will be provided to colonizer by the HUDA, after execution of EDC work at site as per HUDA norms and approved estimate.

Executive Engineer,
HUDA Division, Karnal.

2

[Signature]

ANNEXURE X



LEGEND

SEWER LINE 2 in PVC SDR 35 SW 100

MANHOLE

DOMESTIC WATER SUPPLY LINE

FLUSHING WATER SUPPLY LINE

— DRAIN LINE

CATCH PIT

RECHARGE PIT (3M X 3M)

DESILTING CHAMBER (5X3X3M)

Boomer *Ble*
D.T.P. (H.Q.) D.T.P. (W.L.)
Member Secretary Chairman SPQT

RAMA NAR B. 50
A.D.

2 4 M W I B E B O A D

الطبقة العلوية 2

RAINWATER HARVESTING PIT DIAGRAM

ARCHITECT'S SIGNATURE

ROHIT GARG
CA/94417868

OWNER'S SIGNATURE

PROJECT TITLE
PROPOSED AFFORDABLE GROUP HOUSING SCHEME
MEASURING 5.6534 ACRES (LICENCE NO. 02 OF 2016
DATED 5.3.2016) IN SECTOR 32-A, KARNAI, HARYANA
BEING DEVELOPED BY M/S JD UNIVERSAL INFRA
LTD. IN COLLABORATION WITH AEGIS VALUE HOMES
LTD.

| | | |
|---|-------------------|-----------|
| DRAWING TITLE - 1001 SUBMISSION DRAWING 1001 Service Test | | DRG. NO. |
| SERVICE LAYOUT PLAN | | 03 |
| Engineering Engineers (R) K DA, Panchkula (14) | | |
| SCALE - 1:500 | DATE - APRIL 2016 | |

R.K. & ASSOCIATES
Architects, Engineers & Planners
E-51, GREEN PARK MAIN, NEW DELHI - 110016, INDIA
Tel: 26-91-2158, 26-51-6751, 26-87-7337
Fax: 011-2699-2945. E-mail: rka.associates@gmail.com

ANNEXURE XI

ANNEXURE XII



Aegis Value Homes Ltd.

QUALITY POLICY

We, at Aegis are totally committed to customers' expectations in terms of quality of work and services. We strive for excellence through continual improvement in all areas of operations.

QUALITY OBJECTIVES

1. Continual improvement in business process to meet with ever changing expectations of customer.
2. Complete projects within stipulated time schedule with desired quality.
3. Enhance capabilities of our people through continuous training and development programs at all levels.
4. Observe and adhere to Environmental, Health and Safety standards with the goal as "Zero-Accident" on site.
5. Allocate and utilize financial and physical resources in the most efficient and effective manner.
6. To develop our vendors and sub-contractors to enhance their capabilities with a view to providing Quality Services.



Divey Sindhul Dhamija
Managing Director



Vikas Dhanda
General Manager



Aegis Value Homes Ltd.

EHS POLICY

The Company strives to attain & maintain high standards of environment, occupational health and safety at all work places, defined by the organization besides adhering to legal and other requirements.

Company commits to manage its construction processes & other operations to ensure minimum waste, prevents various types of pollutions and minimize occupational health & safety risks through continual improvements.



Divey Sindhul Dhamija
Managing Director



Vikas Dhanda
General Manager

ANNEXURE XIII

**Affordable Group Housing Scheme
Measuring 5.6534 acres
in Sector-32A, Karnal, Haryana.**

**ENVIRONMENTAL AUDIT REPORT
[MARCH 2023]**

Prepared by:

IND TECH HOUSE CONSULT
G-8/6,Ground Floor, Sector 11,Rohini, Delhi
Tel:+9111 27571410/2241

Environmental Audit Report

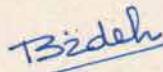
[March 2023]

For
Affordable Group Housing Scheme
Measuring 5.6534 acres
in Sector-32A, Karnal, Haryana.

For and on behalf of: **Ind Tech House Consult**

Approved by: **Dr. Bideh Shukla**

Signed:



Position: **Manager (Environment)**

Date Of Visit: **05/04/2023**

1. Introduction

AEGIS VALUE HOMES LIMITED is developing an affordable group housing project at Sector 32A, Karnal, Haryana. In order to identify the required environmental statutory compliance and understand environmental performance, the company has engaged Ind Tech House Consult for conducting Environmental Audit for its above said project.

2. Scope

As per the mandate of the assignment, the project is to be audited in the perspective of legal compliance of environmental regulations, identifying the gaps against conditions imposed by the environmental statutory authorities and review of environmental parameters.

3. Methodology

The mandate for coverage of the review at the project included assessment of environmental facilities, procedures and management practices with respect to legal compliance as well as good practices. The deliverable in this assessment is a report covering findings on significant environmental issues with special emphasis on the conditions of the Environmental Clearance granted to the project.

4. Key Observations-

4.1 General Project Overview

4.1.1 General Environmental Setting of Project Site

The group housing project site is located at sector 32A, Karnal. The Site is approached from sector road [approx. width 20 m]. SH 8 passes at a distance of 230 m [aerial distance] which joins NH1 at a distance of approx. 2 km on west. Karnal airport is located at a distance of approx. 400mt North East.

4.1.2 Land use

The total plot area of the project site is 5.6534 acres [22,878.46sqm]. The zoning plan for the project has been approved by the DTCP.

4.1.3 Project Approvals

Environmental Clearance

The project was accorded Environmental Clearance by the State Environment Impact Assessment Authority, Haryana vide letter no. SEIAA/HR/2017/682 dated 24/10/2017.

Consent to Establish

Consent to Establish under the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 for the project was obtained from Haryana State Pollution Control Board(HSPCB) vide letter no.HSPCB/Consent/329962318KARCTE4904497dated16/02/2018.

4.1.4 Project Salient Features [As proposed during EC approval]

The proposed total built up area is 62411.142 sq m. The affordable Group Housing will have 8 residential tower and one commercial block. The residential towers will have S/GF + 14 floors. The salient features of the project are tabulated below—

| Sl.No. | Description | Details | Unit |
|--------|----------------------------------|-----------------------|------|
| 1 | PlotArea | 22,878.46 | sqm |
| 2 | Proposed Built Up Area | 62411.142 | sqm |
| 3 | Number of Residential Towers | 8 Towers+1 Commercial | nos. |
| 4 | Height of tallest tower | 44.95 | m |
| 5 | Maximum no. of floors | S/GF+14 | nos. |
| 6 | Total Water Requirement | 428 | KLD |
| 7 | Fresh water requirement | 293 | KLD |
| 8 | Waste water Generation | 341 | KLD |
| 9 | STP Capacity | 410 | KLD |
| 10 | No of RWH of Pits Proposed | 6 | nos. |
| 11 | Parking proposed | 509 | ECS |
| 12 | Green area provided | 5721.76 | sqm |
| 13 | Municipal Solid Waste Generation | 2.34 | TPD |
| 14 | Total Power Requirement | 3000 | KVA |
| 15 | DG set backup | 250[2X125KVA] | KVA |



| Construction Status Tower Wise Date -31.03.2023 | | |
|---|-------------------------------------|--|
| S.No. | Description | Status |
| 1 | A1Tower | |
| | Structure Status | Completed |
| | Block Work | G.F to 14th floor Complete |
| | Plaster Work | G.F to 14th floor Complete |
| | Tile Work | G.F to 14th floor complete |
| | Door Shutter | G.F to 14th floor complete |
| | Aluminium window Work | G.F to 14th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | G.F to 14th floor complete |
| | Internal Paint 1 st coat | G.F to 14th floor complete |
| | Outer Paint | Completed |
| 2 | A2Tower | |
| | Structure work | Completed |
| | Block Work | G.F to 14th floor Complete |
| | Plaster Work | G.F to 14th floor Complete |
| | Tile work | G.F to 14th floor |
| | Door Shutter | G.F to 14th floor complete |
| | Aluminium window Work | G.F to 14th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | G.F to 14th floor complete |
| | Internal Paint 1 st coat | G.F to 6th floor complete |
| | Outer Paint | Completed |
| 3 | A3Tower | |
| | Structure work | Completed |
| | Block Work | G.F to 14 th floor Complete |
| | Plaster Work | G.F to 14 th floor Complete |
| | Tile work | G.F to 14 th floor |
| | Door Shutter | G.F to 14 th floor complete |
| | Aluminium window Work | 1st to 14 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | G.F to 14th floor complete |
| | Internal putty | G.F to 14th floor complete |
| | Outer Paint 1 st coat | Completed |
| 4 | A4Tower | |
| | Construction Work | Completed |
| | Block Work | G.F to 14 th floor Complete |
| | Plaster Work | G.F to 14 th floor Complete |
| | Tile work | G.F to 14 th floor |
| | Door Shutter | G.F to 14 th floor complete |
| | Aluminium window Work | 1st to 14 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | G.F to 14th floor complete |
| | Internal putty | G.F to 14th floor complete |



| | | |
|----------|-------------------------------------|--|
| | Outer Paint 1 st coat | Completed |
| 5 | | B1Tower |
| | Construction Work | Completed |
| | Block Work | Ground Floor to 9 th Floor Complete |
| | Plaster Work | 1 st to 9 th floor Complete |
| | Tile Work | G.F to 9 th floor complete |
| | Door Shutter | G.F to 9 th floor complete |
| | Aluminium window Work | G.F to 9 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | G.F to 9th floor complete |
| | Internal putty | G.F to 9th floor complete |
| | Outer Paint 1 st coat | Completed |
| 6 | | A5Tower |
| | Construction Work | Completed |
| | Block Work | G.F to 14 th Floor Complete |
| | Plaster Work | G.F to 14 th floor Complete |
| | Tile work | G.F to 14 th floor |
| | Door Shutter | 3rd to 14 th floor complete |
| | Aluminium window Work | 4 th to 14 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | G.F to 14th floor complete |
| | Internal paint 1 st coat | G.F to 14th floor complete |
| | Outer Paint | Completed |
| 7 | | A6Tower |
| | Construction Work | Completed |
| | Block Work | G.F to 14 th floor complete |
| | Plaster Work | G.F to 14 th floor Complete |
| | Tile work | G.F to 14 th floor Complete |
| | Door Shutter | G.F to 14 th floor complete |
| | Aluminium window Work | G.F to 14 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | G.F to 14th floor complete |
| | Internal paint 1 st coat | G.F to 14th floor complete |
| | Outer Paint | Completed |
| 8 | | A7Tower |
| | Construction Work | Completed |
| | Block Work | G.F to 11 th floor Complete |
| | Plaster Work | 1 st to 11 th floor Complete |
| | Tile Work | 1 st to 11 th Floor Complete |
| | Door Shutter | 2 nd to 11 th floor complete |
| | Aluminium window Work | 2 nd to 11 th floor complete |
| | Terrace Brick Bat Coba | Completed |
| | Switch Socket and wiring | 3 rd to 9 th floor complete |
| | Internal paint 1 st coat | G.F to 14th floor complete |
| | Outer Paint | Completed |



RECENT PHOTOGRAPH OF SITE



4.2 Compliance with Stipulated Conditions of Environmental Clearance

Part A—Specific Conditions

I. Construction Phase

| S. No. | Conditions of Environmental Clearance | Observation/Finding (For Quarter Ending Aug 2022) | Status of Compliance/Remarks |
|--------|---|--|------------------------------|
| 1. | “Consent For Establishment” 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 start of any construction work at site. | Consent to Establish has been obtained from HSPCB vide letter No.HSPCB/Consent/329962318KA RCTE 4904497 dated 16/02/2018 with validity upto 23/10/2024 | Complied |
| 2. | A First aid room as proposed in the project report shall be provided in both during construction and operation phase of project | First aid facility has been available at the project site for the laborers. | Complied |
| 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 laborers is strictly prohibited. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured. | Adequate drinking water and sanitary facilities has been provided for construction workers at the site. mobile toilets are provided at site to prohibit open defecation. Municipal solid waste generated at construction site is disposed through authorized vendor. | Complied |
| 4. | All the top soil excavated during Construction activities should be stored for use in horticulture/landscape development within project site. | The top soil excavated during construction activities is used for horticulture/Landscape development, back filling and road construction activities of the project. | Complied |



| | | | |
|----|--|---|--|
| 5. | <p>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 and should be disposed of after taking necessary precautions for general safety and health aspects of the people, only in the approved sites with the approval of competent authority.</p> | <p>The building materials required during construction phase are stored properly within project area.</p> <p>As informed by site representative at present the amount of construction waste generated is low and is provided to nearby villages for land filling and road construction.</p> | Complied |
| 6. | <p>Construction spoils including bituminous materials and other hazardous materials must not be allowed to contaminate watercourses and the dump site for such materials must be secured so that they should not leak into groundwater 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.</p> | <p>No bituminous material or other hazardous material is being used during construction phase. The only hazardous material which is generated at site is spent oil from DG set the amount of which is very low [approx. 20 to 25 lit]. which is used for shuttering.</p> | Proper disposal of Hazardous waste through authorized vendor need to be ensured at site. |
| 7. | <p>The diesel generator sets to be used during construction phase should be of ultra low sulphur diesel type and should confirm to Environment (Protection) Rules prescribed for air and noise emission standard.</p> | <p>At present one number of DG set of capacity 125 KVA confirming to EPA rule is installed at the site. Low sulphur diesel is being used for running of this DG Set.</p> | Complied |
| 8. | <p>The diesel required for operating DG sets shall be stored in underground tank if required clearance from chief controller of explosive shall be taken.</p> | <p>Diesel is used in small quantity there is no underground storage required so no clearance is required from chief controller of explosives.</p> | Complied |

| | | | |
|-----|--|--|----------|
| 9. | Ambient noise levels shall conform to the commercial/Industrial 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 commercial standard. | Ambient noise levels has been monitored by outside approved lab on regular basis indicating all the results within permissible limits of EPA, 1986. Latest monitoring has been done. The ambient air and noise monitoring reports has been submitted along with six monthly compliance report. Latest monitoring report of air and noise of March 2023 have been checked and found within permissible limit except for PM _{2.5} , & PM ₁₀ . Which is due to overall construction and other activities that are taking place in nearby areas. Water sprinkling is being done on regular basis to combat air pollution. Anti smog gun is also installed at site to combat air pollution. | Complied |
| 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. | The unit has installed RMC Plant at site where flyash is used. RMC batch report as a proof has been checked | Complied |
| 11. | Storm water control and its re-use as per CGWB and BIS standard for various applications should be ensured. | As proposed Six number of RWH pits has been provided at site. | Complied |
| 12. | Water demand during construction phase should be reduced by uses of premix concrete, curing agent and other best practices. | Pre mixed concrete, curing agents and other best practices are being used to minimize the water demand during construction phase. Batch report checked as proof. | Complied |



| | | | |
|-----|---|---|------------------|
| 13. | In view of severe constraints in water supply augmentation in the region and sustainability of water resources, the developers 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/R.O. MoEF, Chandigarh before start of construction. | There is no groundwater abstraction at site. Water requirement for potable purpose is fulfilled through HUDA tanker supply. Assurance letter for supply of drinking water for construction and operation phase has been obtained. Construction water is sourced through STP treated water from HUDA. Challan for supply of STP water from HUDA has been checked as proof. | Complied |
| 14. | Roof should meet prescribed requirements as per energy conservation building code by using appropriate thermal insulation materials to fulfill requirements. | The same will be complied at appropriate stage of site development. | Will be Complied |
| 15. | Opaque wall should meet prescribed requirements as per energy conservation building code which is proposed to be mandatory for all air conditioned spaces while it is inspirational for non air conditioned spaces by use of appropriate thermal insulation to fulfill the requirements. | This is affordable group Housing project However the walls are made with RCC/Block work. | Complied |
| 16. | The approval of competent authority shall be obtained for structural safety of the building due to earthquake, adequacy in firefighting 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. | The approval of design of Structural Safety of the building has been obtained from competent authority vide Cert. Ref No-2021/GDE/AEGIS/Stab. /01 NOC from Fire Department has been obtained vide Memo no. FS/2020/179 dated 22/07/2020 NOC from forest department is obtained vide letter No. 857 dated 19/08/2016. | Complied |

| | | | |
|-----|--|--|----------|
| 17. | Overexploited ground water and impending severe shortage of water supply in the region requires the developers to redraw the water and energy conservation plan. Developer shall reduce the overall footprint of the proposed development. Project proponent shall incorporate water efficiency/saving as well as water reuse/recycling within three month to the SEIAA, Haryana and R.O. MoEF, GOI, Chandigarh. | Ground water will not be used at any stage of project. For construction purpose STP treated water from HUDA is being used. A very well planned dual plumbing has been proposed for the conservation of water during operation phase. Challan/slip for water supply from HUDA has been checked. | Complied |
| 18. | The project proponent as stated in the proposal shall construct 06 nos. rainwater harvesting pits under expansion for recharging the ground water within project premises. Rain water harvesting pits shall be designed to make provision for 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. | 06 no. of RWH pits are provided at the site and will be operational when project is in operation phase. | Complied |
| 19. | The project proponent shall provide for adequate fire safety measures and equipment as required by Haryana fire service act, 2009 and instruction issued by the local/authorities 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. | Approval of firefighting scheme has already been obtained vide Memo no.FS/2020/179 dated 22/07/2020 Approval has been checked | Complied |
| 20. | The project proponent shall obtain assurance from the UHBVN for total supply of 3000 KW 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. | Power supply is taken from UHBVN during construction phase. Assurance from UHBVN for electricity supply (3000 KVA) has been obtained Vide letter No. 503 dated 25/05/2016 | Complied |



| | | | |
|-----|---|---|----------|
| 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. | Detail calculation of power load & ultimate power load of the project had been submitted with EC application and provision for electrical infrastructure has also been made. Assurance from DHBVN for electricity supply has been obtained vide Memo No. 503 dated 25/05/2016 | Complied |
| 22. | The project proponent shall not raise any construction activity in the natural land depression/ Nallah/ water course and shall ensure that the natural flow from the Nallah/ watercourse is not obstructed. | No Nallah/Water course is present within the vicinity of project area. | Complied |
| 23. | The project proponent shall keep the plinth level of the building blocks sufficiently above the level of the approach road to the group housing project as per prescribed by law. Level of the other areas in the group housing projects shall also be kept suitably so as to avoid flooding. | Plinth level is kept sufficiently above the level of approach road | Complied |
| 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. | The density of population will not exceed norms approval by Director General Town and Country Department Haryana. | Complied |
| 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. | STP treated water are being used for construction purpose. | Complied |
| 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. | The project site was vacant land when the construction has been started. There were no trees at the site. | |



| | | | |
|-----|---|---|---|
| 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. | 03 mtrs high barricade has been provided around the project area. Anti smog gun is installed at site. | Stored materials are found uncovered at site during site visit. immediate instruction has been given to site representative to cover the uncovered materials. |
| 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. | Sedimentation basin is provided at the Site | Complied |
| 29. | The project proponent shall provide Rasta of proper width and proper strength for each project before the start of construction. | The project site is accessible from existing 15 m wide sector road. Internal roads have been provided for construction purpose | Complied |
| 30. | 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. | The condition will be complied during later stage of development. | Will be complied |
| 31. | The project proponent shall adequately control construction dust like silica dust, non-silica dust and wood dust. Such dust shall not spread out side project premises. Project proponent shall provide respiratory protective equipment to all construction workers. | Antismog gun is provided at the site to control dust pollution at the site. Respiratory protective equipments are provided to all construction workers at the site. | Complied |
| 32. | The project proponent shall develop complete civic infrastructure of the group housing project including internal roads, green belt development, sewerage line, Rain water recharge arrangement, storm water drainage system, solid waste management site and provision for treatment of biodegradable waste, STP, water supply line, dual plumbing line, electric supply lines etc and shall offer possession of the units/flats thereafter. | Only after completion of all civic infrastructures, The possession offer will be given to buyer. | Will be complied |



| | | | |
|-----|---|---|------------------|
| 33. | The Project Proponent shall provide one refuge area till 24 meter, one till 39 meter and one after 15 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. | The building has been designed in line with NBC requirement. | Complied |
| 34. | The project Proponent shall provide fire control room and fire officer for building above 30 m as per National Building Code. | Fire control room will be provide in due course of time. | Will be complied |
| 35. | The project proponent shall obtain permission of mines and geology department for excavation of soil before the start of excavation. | No Permission is required as there is no construction of basement in the project. | Complied |
| 36. | The Project Proponent shall seek specific prior approval from concerned local authority/HUDA regarding provision of storm drainage and sewage system including their integration with external services of HUDA/ local authorities beside other required services before taking up any construction activity. | Assurance from HUDA has already being obtained vide memo no.9927 dt 20/06/2017 | Complied |
| 37. | The project proponent shall submit the copy of fire safety plan duly approved by fire department before the start of construction. | Approval of firefighting scheme has already been obtained vide memo no. FS/2020/179 dt 22/07/2020 | 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 | Assurance of Disposal of treated surplus sewage water from HUDA has been obtained vide Memo no.9927 dt 20/06/2017 | Complied |
| 39. | The project proponent shall maintain the distance between STP and water supply line. | The same will be taken care of and a fair distance has been maintained between STP and water supply lines. | Will be complied |
| 40. | The project proponent shall ensure that the stack height is 6 meter more than the highest tower. | This condition will be complied during operational stage of the project. | Will be complied |

| | | | |
|-----|--|---|----------|
| 41. | The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 Richter scale. | Approval of design of Structural safety of the building has been obtained from competent authority vide Cert. Ref No- 2021/GDE/AEGIS/Stab./01 | Complied |
|-----|--|---|----------|

OPERATION PHASE:

The compliance to the condition applicable during operation phase will be reviewed once the project is put under operation.

GENERAL CONDITION:

| Sr. No | Conditions of Environment Clearance | Status of Compliance (For Quarter ending March 2022) | Observations/ Remarks (Ind Tech) |
|--------|---|--|----------------------------------|
| 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. | The environmental safeguards contained in the documents will be implemented. | - |
| 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 copies as well as by e-mail) to the northern Regional Office of MoEF, the respective Zonal Office of CPCB, HSPCB and SEIAA Haryana. | Six monthly compliance reports are being submitted on regular basis. Latest six monthly compliance report checked. | Complied |
| 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 | The monitoring of STP and DG stack emission will be carried out during operation stage of project after their installation. Ambient air, ambient noise and soil quality are monitored regularly through | Complied |



| | | | |
|------|---|--|-----------|
| | corrective measure, if required, without delay. | external NABL accredited laboratory. Project proponent has engaged consultant for environmental audit as per condition imposed. | |
| 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. | As of now, No additional measures have been suggested by SEIAA. | Complied |
| V. | The Project proponent shall not violate any judicial orders/pronouncements issued by any Court/Tribunal. | As of now no judicial orders have been issued | Complied |
| 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. | Approval from chief controller of explosive is not required for this project NOC from Haryana institute of Civil Aviation has been obtained vide letter No. HICA/2014/OIC/21 dated 18/04/2015 NOC from forest department has been obtained vide letter No. 857 dated 19/08/2016 NOC from Fire Department has been obtained vide memo no. FS/2020/179 dated 22/07/2020 | Complied |
| 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 | Same has been informed in two local newspapers that are widely circulated in the region. Copy of environmental Clearance condition are also uploaded on proponent's website. | Complied. |



| | | | |
|-------|--|--|---|
| | 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. | All Statutory clearance has been obtained from respective departments. | Complied |
| IX. | Any appeal against 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. | No Appeal has been made | Complied |
| X. | The project proponent shall put in place corporate environment policy as mentioned in MoEF, GoI Office Memorandum No. J-11013/41/2006-IA.II(I) dated 24.04.2012 within three month periods. Latest environmental corporate policy should be submitted to SEIAA within 3 months of issuance of this letter. | Copy of Corporate environmental policy has been Submitted to SEIAA. | 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 shall be reported to the SEIAA/RO MOEF GOI under rules prescribed for Environment Audit. | Separate fund has not yet created. | Not complied The fund should be created on immediate basis and year wise expenditure should also be reported. |
| 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. | NOC from forest department has already been obtained | Complied |
| XIII. | The Project Proponent shall ensure that no vehicle during construction/operation phase enter | All the vehicle carrying construction materials and entering the project | Complied |



| | | | |
|-------|--|---|-----------|
| | the project premises without valid 'Pollution Under Control' certificate from competent Authority. | premises have valid PUC Certificate. PUC certificates of some vehicles have been checked. | |
| XIV. | The project proponent is responsible for compliance all condition in environment clearance letter and project proponent shall not absolve himself/herself of the responsibility by shifting it to any contractor engaged by project proponent. | Agreed | - |
| XV. | The project proponent shall seek fresh Environmental clearance if at any stage there is change in the planning of the proposed project. | As on date no change is proposed. | Complied |
| 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 licensee/licensees in whose name/names the license/CLU has been granted by the Town & Country Planning Department, Haryana. | The condition will be complied. | Complied |
| XVII. | The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM2.5, PM10, SOX NOX, Ozone, Lead, CO, Benzene, Ammonia, Benzopyrine, arsenic and Nickel. (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. | The status of compliance of EC conditions including result of monitoring data has been uploaded on proponent website (http://www.smarthomeskarnal.in/environmental_audit.php) and also displayed at convenient location at the entry gate. | Complied. |



| | | | |
|--------|--|--|----------|
| 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 along with the status of compliance of the EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail. | Form-V (Environmental statement) is being submitting regularly. | Complied |
| XIX. | The project proponent shall conduct environment audit at every three months 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. | Environmental Audits are being conducted periodically. | Complied |
| XX. | Corporate Environment and Social Responsibility (CSER) shall be laid down by the project proponent (2% shall be earmarked) as per guidelines of MoEF, Gol Office Memorandum No. J-11013/41/2006-IA.II(I) dated 18.05.2012 and Ministry of Corporate Affairs, Gol Notification Dated 27.02.2014. A separate audit statement shall be submitted in the compliance. Environment related work proposed to be executed under this responsibility shall be undertaken simultaneously. The project proponent shall select and prepare the list of the work for implementation of CSER of its own choice and shall submit the same before the start of construction. | As this is affordable group housing project this condition is not applicable for this project. | - |
| XXI. | The validity of Environmental clearance letter is valid upto 07 years from the date of issuance of EC letter. The EC conditions applicable till life space project in case of residential project will continue to | The Condition Will be complied | - |



| | | |
|--|--|--|
| apply. The resident welfare association/ housing co-operative societies shall responsible to comply conditions laid down in EC. In case of violation the action would be taken as per the laid down law of land. Compliance report should be sent to this office till life of the project. | | |
|--|--|--|

4.3 Identification of Gaps

4.3.1 Non-compliance with respect to environmental laws

4.3.1.1 The fund earmarked for environmental protection measures should be kept in separate account and should be created on immediate basis and year wise expenditure should also be reported.

4.3.1.2 Proper disposal of hazardous waste need to be ensured at site MOU from authorized vendor for disposal of hazardous waste has not been made.

4.3.1.3 Construction Materials are found uncovered at some places at site.

5 Overall Findings

This audit has been conducted according to the requirement as per the condition imposed in the Environmental Clearance issued by the SEIAA, Haryana. The audit was conducted with involvement of the official of the project proponent.

Overall housekeeping at the project site was found to be underway. As said by the official, water sprinkling is regularly carried out to suppress dust emissions at the construction site.

6. Recommendations

Immediate action on the non- compliances observed during the audit should be taken and reported.



ANNEXURE XIV

| Date 01-03-26 | Time 15#04 | Recipe 0030 | Total Qty | | | Hr 476 | | | | | |
|------------------|---------------|----------------|--------------|-----|----|--------|----|---|------|------|----|
| | | | Cement 04 | 02 | 04 | 04 | 01 | % | Lit. | 01 | 02 |
| 236 | 364 | 340 | 0 | 155 | 40 | 0 | 63 | 1 | 5 | 1000 | 0 |
| 241 | 357 | 315 | 0 | 150 | 37 | 0 | 60 | 1 | 5 | 1056 | 0 |
| 240 | 357 | 315 | 0 | 152 | 40 | 0 | 63 | 1 | 5 | 956 | 0 |
| 244 | 363 | 314 | 0 | 152 | 40 | 0 | 60 | 1 | 5 | 998 | 0 |
| 248 | 374 | 317 | 0 | 152 | 40 | 0 | 64 | 1 | 5 | 998 | 0 |
| 255 | 347 | 318 | 0 | 152 | 42 | 0 | 64 | 1 | 5 | 932 | 0 |
| 249 | 385 | 317 | 0 | 152 | 37 | 0 | 64 | 1 | 5 | 964 | 0 |
| 246 | 372 | 318 | 0 | 152 | 40 | 0 | 64 | 1 | 5 | 974 | 0 |

| Date 01-03-26 | Time 15#26 | Recipe 0030 | Total Qty | | | Hr 476 | | | | | |
|------------------|---------------|----------------|--------------|-----|----|--------|-----|---|------|------|------|
| | | | Cement 04 | 02 | 04 | 04 | 01 | % | Lit. | 01 | 02 |
| 243 | 364 | 341 | 0 | 152 | 37 | 0 | 72 | 1 | 5 | 1000 | 0 |
| 249 | 368 | 324 | 0 | 153 | 40 | 0 | 82 | 1 | 5 | 942 | 0 |
| 247 | 492 | 732 | 6 | 310 | 72 | 0 | 156 | 1 | 5 | 1494 | 0.00 |
| 1404 | 500 | 746 | 6 | 310 | 60 | 0 | 162 | 2 | 00 | 0.00 | 0.00 |

ANNEXURE XV

Site Photographs



