

DLF Limited

DLF Gateway Tower, R Block, DLF City,
Phase III, Gurugram-122 002, Haryana
Tel.: (+91-124) 4396000



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

~~Date: 15.05.2023~~

31/05/23

Sub: Submission of Six-monthly Compliance Report of Stipulated Conditions of Environmental Clearance for Expansion of DLF City Phase-V Group Housing Project Including Community Facilities (Expansion of Magnolias, Belaire, Park Place and Addition of Proposed Park Place EWS, Club Building- 1, Club Building-2 & Golf Course) in Sectors-42, 43, 53 & 54, DLF City Phase-V, Gurgaon, Haryana for the period October 2022 to March 2023.

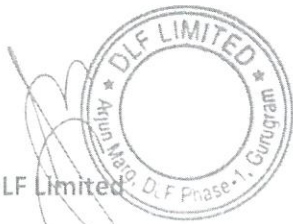
Sir,

In accordance to the condition of Environmental Clearance for the above project received from State Environmental Impact Authority (SEIAA), Haryana, vide letter no. SEIAA/HR/10/813 dated 05/10/2010; 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.

The compliance to the EC conditions for "expansion of DLF City Phase-V Group Housing" project including Community Facilities (Expansion of Magnolias, Belaire, Park Place and Addition of Proposed Park Place EWS, Club Building- 1, Club Building-2 & Golf Course) also covers the compliance of the existing DLF phase V Group Housing project for which EC was obtained from MoEF&CC, GOI vide letter no. 21-435/2007-IA-III dated 08 January 2008.

Thanking you!

Yours Sincerely,



For DLF Limited

Copy to:

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



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DLF
BUILDING INDIA

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[Signature]
02/06/23
Haryana State Pollution Control Board
C-11, Sector 6, Panchkula

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2 messages

Six Monthly Report <smcompliancereport@gmail.com>

Wed, May 24, 2023 at
11:40 AM

To: ecompliance-nro@gov.in

Respected Sir,

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Thanking you!

Yours Sincerely,

For **DLF Limited**



SMCR DLF Phase V June 2023_com.pdf

9773K

Environment Wing IRO Chandigarh <ecompliance-nro@gov.in>

Wed, May 24, 2023 at 11:46 AM

To: smcompliancereport@gmail.com

Thank you for reaching out!

This auto-reply is just to let you know that we have received your email and will get back to you with a response soon.

Regards,
Environment Wing,
Integrated Regional Office,
Ministry of Environment, Forest & Climate Change
Bays No. 24-25, Sector 31 A, Dakshin Marg,
Chandigarh – 160030

DLF Limited

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The Joint Director/ Scientist 'D'
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**SIX-MONTHLY COMPLIANCE REPORT OF
STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE
OCTOBER 2022 TO MARCH 2023**

FOR

**Expansion of DLF City Phase-V Group Housing
Including Community Facilities
(Expansion of Magnolias, Belaire, Park Place and
Addition of Proposed Park Place EWS, Club Building-
1, Club Building-2 & Golf Course) in Sectors-42, 43, 53
& 54, DLF City Phase-V, Gurgaon, Haryana**

**SUBMITTED BY:
DLF LIMITED
GATEWAY TOWER 2ND FLOOR,
DLF CITY PHASE-III, GURGAON**

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Chapter 1 Introduction and Project Description

1.1 Introduction

Project: Expansion of DLF City Phase-V Group Housing including Community Facilities (Expansion of Magnolias, Belaire and Park Place and addition of Proposed Park Place EWS, Club Building, Club Building-2 and golf Course) in Sectors-42, 43, 53 & 54, Gurgaon, Haryana to facilitate group housing. Establishment of Group housing project at DLF City Phase-V has earmarked a landmark of the city attracting people to live in Gurgaon.

This project has been granted the “Environmental Clearance” by the Ministry of Environment and Forests (MOEF), Govt. of India, vide letter number 21-435/2007-IA.III dated 08 January 2008. For the expansion phase, State Environment Impact Assessment Authority (SEIAA), Haryana has granted the Environmental Clearance vide letter number SEIAA/HR/10/813, dated, 05.10.2010., copy of the same is attached as **annexure 1**. The project has also been granted “Consent to Establish (CTE)/ No Objection Certificate (NOC)” from the Haryana State Pollution Control Board (HSPCB) for respective buildings. The project has been cleared by the Department of Town & Country Planning (DTCP), Govt. of Haryana. Along with this all necessary approvals and clearances has been obtained.

1.2 Project Description

Salient Features

The salient features of the project are as given below:

Location	DLF City Phase-V, Sectors 42, 43,53 & 54, Gurgaon
Total plot area	1873,798.792 m ² (463.0265 acres)
Dwelling unit after expansion	Main dwelling unit: 4,175, Service personnel dwelling unit: 360,EWS dwelling unit: 378
Total built-up area (after expansion)	1667,104.035 m ²
Max. building height	89.275 m
Total fresh water requirement	2,924.3 kld
Wastewater generation	3,059.7kld
STP	15 MLD (9 MLD SBR + 6 MLD MBBR)capacity common STP for DLF City Phase-V at Sector-43, Gurgaon
Solid waste	10,790 kg/day
Power demand	41,790 kW
Total parking	11,948 ECS

Parking

The buildings are provided with separate parking space in form of surface and basement parking. Proper entry and exit system for vehicles has been developed to avoid traffic congestion in the area. Entry route and exit route to each of the buildings are separate.

Water Supply

Source of fresh water is supply water from public supply.

Sewage treatment

Sewage generated in the project is being treated up to the tertiary level in the Common Sewage Treatment Plant (STP) located in DLF5, Sector-43. The entire (100%) treated sewage from STP is

being recycled/reused for toilet flushing, cooling, horticulture in various buildings in the project and also in irrigation of golf course.

Electricity

The power requirements of these buildings are being met through electricity supply from Dakshin Haryana Bijli Vitaran Nigam (DHBVN). Further there are provisions of back-up DG sets for supply of electricity during power failure. The DG sets are kept in basement in acoustically treated room.

Fire Safety

The buildings are well equipped with all fire fighting equipments (i.e. fire water tanks, fire pumps, fire hydrants, sprinkler system, fire alarms, fire extinguishers, hose reels etc.) as required under the local fire norms.

Rain water harvesting

The rainwater collected from the rooftop and other paved areas within the project site is conveyed into the rainwater harvesting system consisting of desilting chamber, oil & grease separator and recharge pit with bore well for recharge into the groundwater.

Disposal of municipal solid wastes

Solid wastes generated are being segregated into biodegradable and non-biodegradable components and collected in separate bins. Both the biodegradable wastes and non-biodegradable / recyclable wastes are sold to through authorized vendors.

1.3 Present Status of the Project

The present status of the project under expansion of Group Housing Scheme of DLF City Phase-V is given as below:

S. No.	Name of Building	Status
1	Westend Height	Operational
2	Aralias	Operational
3	Royalton	Operational
4	Pinnacle	Operational
5	Icon	Operational
6	Summit	Operational
7	Magnolia (including expansion)	Operational
8	Belaire (including expansion)	Operational
9	Park Place	Operational
10	Community Centre-1 & 2	Operational
11	Vita	Operational
12	Golf Course	Operational
13	EWS	Operational
14	Club Building-1	Operational
15	Club Building-2	Operational

1.4 Purpose of the Report

This six-monthly report is being submitted as per the conditions stipulated in the Environmental Clearance Order. Further, this compliance report depicts the environmental impacts on the local environment due to the project. The environmental compliance report is 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.

- That the Project Management is implementing the environmental mitigation measures and safeguards in true spirit as suggested in the approved Form-1, Form-1A, Environmental Management Plan (EMP) and building plans.
- Any non-conformity in the project with respect to the environmental implication of the project.

Name of Project : **Expansion of DLF City Phase-V Group Housing including Community Facilities (Expansion of Magnolias, Belaire and Park Place and addition of Proposed Park Place EWS, Club Building, Club Building-2 and golf Course) in Sectors-42, 43, 53 & 54, Gurgaon, Haryana**

Environmental Clearance letter No. : SEIAA/HR/10/813 dated 05.10.2010

Period of compliance : October 2022 to March 2023

Project Status : Operational
(as on 31.03.2023)

Compliance of Stipulated Conditions of Environmental Clearance

PART A – SPECIFIC CONDITIONS

I. Construction Phase

S. No.	Conditions of Environmental Clearance	Status of Compliance
i	A first aid room as proposed in the project report will be provided in both during construction and operation phase of the project.	First-aid medical facility was provided at site during construction. First aid facility also has been provided in operational phase of the project.
ii	Adequate drinking water and sanitary facilities should be provided or construction workers at the site. Provision should be made for mobile toilets. Open defecation by the laborers is strictly prohibited. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	The project is in operational phase now. Adequate drinking water and sanitary facilities were provided for construction workers at site. The waste- water generated in construction phase was treated and disposed through septic tanks with soak pits.
iii	All the top soil excavated during construction activities should be stored for use in horticulture /landscape development within the project site.	Topsoil generated were stored at respective project site as well as off site and reused for landscape purpose within the respective project complex.
iv	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed off taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Excavated earth were used for backfilling and leveling the project site. The surplus excavated earth were used in vacant low-lying areas of DLF City Phase-V for land filling and leveling of low land.
v	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 groundwater and any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the Haryana State Pollution Control Board.	Recyclable construction wastes like cement bags, steel etc. were sold to authorized vendor. Waste construction spoils like brick bats etc. were used as filling material for road. No bituminous wastes were generated since these were new building construction. Except used oil from DG sets, no other hazardous waste generated in construction phase. The DG used oil disposed through authorized recycler.

S. No.	Conditions of Environmental Clearance	Status of Compliance
vi	The diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	“Low sulphur diesel (LSD) was used for running DG sets during construction phase. The DG sets installed had adequate stack heights and were Enclosed type” DG sets which conforms the air and noise emission within permissible standard as per CPCB norms.
vii	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	DG sets used during construction were arranged by contractor. There was no underground diesel storage tank during construction stage. Diesel for construction DG sets were stored in daily storage drums in very low quantity as per threshold limit applicable for temporarily storage for which clearance from Chief Controller of Explosives was not required.
viii	Ambient noise levels should conform to the residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated residential standards & commercial standards wherever applicable.	Ambient air quality and noise level monitoring were carried out during construction phase. All necessary measures were adopted so that the noise level should meet the prescribed residential noise level standards. Water sprinkling was done regularly for dust suppression. The DG sets used during construction phase were installed in factory made enclosure which conforms to the noise level standards of MoEF. The DG had adequate stack heights as per norms.
ix	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27 th August 2003.	Fly-ash blocks and ready mixed concrete containing fly ash were used for construction.
x	Ready mixed concrete must be used in building construction.	Ready mixed concretes were used in building construction.
xi	Storm water control and its re-use as per CGWB and BIS standards for various applications should be ensured.	Storm water was managed to prevent flooding in near by area. Storm water was controlled by laying proper internal drainage network within the project site.
xii	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Pre-mixed concretes were used in construction to reduce the water demand.
xiii	Permission from Competent Authority for supply of water shall be obtained prior to operation of the project.	Permission from HUDA for water supply has been obtained for operational buildings in DLF City Phase-V.
xiv	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	As per Govt. of Haryana, HAREDA Notification No. 19/6/2016-5P dated 31 st March 2016, Energy Conservation Building Code (ECBC) is not applicable for Group Housing Building.
xv	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement	As per Govt. of Haryana, HAREDA Notification No. 19/6/2016-5P dated 31 st March 2016, Energy Conservation Building Code (ECBC) is not applicable for Group Housing Building

S. No.	Conditions of Environmental Clearance	Status of Compliance
xvi	The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of fire fighting equipments etc. as per National Building Code including protection measures from lightening etc. If any forest land is involved in the proposed site. Clearance under Forest Conservation Act shall be taken from Competent Authority.	All necessary approvals from the competent authority was obtained for structural safety of the buildings due to earthquake, regarding adequacy of fire fighting equipments etc. as per National Building Code including protection measures from lightening arrestors. No forest land was involved. The project was built at site earmarked as per the local authority development plan.
xvii	The project proponent will use water for construction phase through tankers. However, prior permission from CGWA will be taken before using the bore well water for construction purposes.	Tanker water and sewage from STP were used for construction purpose.
xviii	The project component will construct 86 (Eighty-six) no. of rainwater harvesting pits for recharging the groundwater within the project premises.	Rainwater harvesting pits was constructed at site for recharging the groundwater within the project premises.
xix	The PP should provide hydraulic ladder for escape of people during fire.	Precautions for evacuation during fire including hydraulic ladder are considered in fire-fighting design plan. Necessary approvals for the fire-fighting schemes had obtained from Fire Department, Gurgaon.
xx	The PP should obtain the explosive license prior to construction of building and inform to SEIAA.	Noted and complied with as applicable.
xxi	The project proponent shall set up solar panel of 100 kW in the project area.	Solar Power has been provided at site for lightening the other outer area.

II. Operation Phase

S. No	Conditions of Environmental Clearance	Status of Compliance
i	The STP shall be installed for the treatment of the sewage generated to the prescribed standards including odour and treated effluent will be recycled to achieve zero exit discharge. The STP should be installed at the remotest place in the project area.	As mentioned in the EC application the entire sewage from the building is being treated in the existing Common STP of 15 MLD (9 MLD SBR + 6 MLD MBBR) capacity installed for DLF5. In the existing STP, the sewage is treated upto the tertiary level to achieve the desired standards and the entire treated effluent (100%) from the STP is reused internally for landscaping & flushing in various buildings in DLF5 and irrigation of DLF Golf course to achieve zero discharge. The common STP is located at separate place at Sector-43, Gurgaon All parameters of the STP effluent are being maintained as per HSPCB Discharge limit, vide F.No. HSPCB/WC-2/2162-2169 dated 2 nd July, 2020 standards.

S. No	Conditions of Environmental Clearance	Status of Compliance
ii	Separation of grey and black water should be done by the use of dual plumbing line. Treatment of 100% grey water by decentralized treatment should be done ensuring that re-circulated water should have BOD maximum 10 ppm and the recycled water will be used for flushing, gardening and DG set cooling and running of fountain in the water body.	Dual plumbing line has been installed for reuse of treated effluent. Entire wastewater (grey and black water) is treated in the existing Common STP upto the tertiary level and the entire treated effluent is being reused for landscaping, flushing and irrigation resulting into zero discharge. Therefore, separation of grey and black water is not required as both are flowing into the same STP. All parameters of the STP effluent are being maintained as per HSPCB Discharge limit, vide F.No. HSPCB/WC-2/2162-2169 dated 2 nd July, 2020 standards. The latest test results for STP outlet are provided in the test report enclosed as Annexure 2 .
iii	For disinfection of the treated wastewater UV radiation or ozonization should be used.	The ozonization system has been installed in common sewage treatment plant located at DLF5, Sector-43, Gurgaon for disinfection of treated sewage during operation phase.
iv	The solid waste generated should be properly collected and segregated. Bio-degradable waste will be decomposed at site and dry/ inert solid waste should be disposed off to approved sites for land filling after recovering recyclable material.	Solid wastes generated are being segregated into biodegradable and non-biodegradable components and collected in separate bins. Both biodegradable and non-biodegradable wastes are being sold to authorized vendors. Dewatered/dried sludge from STP is used as manure in horticulture.
v	Diesel power generating sets proposed as source of backup power for lifts, common area illumination and for domestic use should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The location of the DG sets should be in the basement as promised by the project proponent with appropriate stack height i.e. above the roof level as per the CPCB norms. The diesel used for DG sets should be of low sulphur contents (maximum 0.25%).	DG sets are installed in acoustically treated DG room at basement in the operational buildings and conforms to the rules made under Environment (Protection) Act, 1986. The stack heights are above the roof level as per norms. Ultra low sulphur diesel (ULSD) containing less than 0.05% sulphur is being used for DG sets. DG stack emission and DG noise monitoring are carried out and the results are provided in the test report enclosed as Annexure 3 for Blaire and Annexure 4 for Aralias .
vi	Ambient noise level should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the proposed Residential Complex & Commercial complex.	Ambient noise level and ambient air quality monitoring are carried out in operation phase and the monitoring results are enclosed as Annexure 3 for Blaire, Annexure 4 for Aralias and Annexure 5 for Club-V .
vii	The project proponent should maintain at least 20% as green cover area for tree plantation especially all around the periphery of project and on the road sides preferably with local species so as to provide protection against particulates and noise. The open spaces inside the plot should be preferably landscaped and covered with vegetation/ grass.	Landscape and tree plantation are carried out as per landscape plan submitted along with the application for Environmental Clearance. Mostly indigenous/local plants are planted along the sides of the roads and in open spaces & along the boundary wall within the complex.

S. No	Conditions of Environmental Clearance	Status of Compliance
viii	Weep holes in the compound front wall shall be provided to ensure natural drainage of rain water in the catchments area during the monsoon period.	As the entire rainwater within the project site is recharged into groundwater through rainwater harvesting and recharge pits, weep holes in the compound wall are not required.
ix	Rainwater harvesting for roof run-off and surface run-off, as per plan submitted should be implemented. Before recharging the surface runoff, pretreatment through sedimentation tanks must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging should be kept at least 5 mts above the highest ground water table.	Adequate numbers of rain water harvesting pits are provided. Rainwater harvesting plan has been designed as per CGWB norms and the design approved in the manual issued by the Govt. Oil & Grease trap is provided in the rainwater harvesting system to remove oil & grease from the surface runoff and de-silting chamber is provided to remove suspended matter.
x	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	Groundwater quality is monitored, and the result is attached in the test report as Annexure 3 for Blaire, Annexure 4 for Aralias and Annexure 5 for Club-V.
xi	There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized and no public space should be utilized.	Adequate parking provisions have been made in parking plans to accommodate all the vehicles within the project and no public space is utilized. Separate entry and exits are provided with proper traffic signage for smooth movement of traffic within the project complex. Hence, there is no traffic congestion near the entry and exit points from the roads adjoining the respective project sites.
xii	A report on energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials and technology, R &U Factors etc. and submitted to the SEIAA, Haryana in three months time.	As per Govt. of Haryana, HAREDA Notification No. 19/6/2016-5P dated 31st March 2016, Energy Conservation Building Code (ECBC) is not applicable for Group Housing Building.
xiii	Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels must be adapted to the maximum extent possible for energy conservation.	Energy conservation measures like installation of CFLs and TFLs are used for lighting in the project. The used CFLs and TFLs are properly collected and handed over to the authorized recyclers.
xiv	The solid waste generated should be properly collected and segregated as per the requirement of the MSW Rules, 2000 and as amended from time to time. The biodegradable waste should be composted by vermi composting at the site earmarked within the project area and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	Municipal solid wastes generated from the project are segregated into biodegradable and non-biodegradable components and collected in separate bins. Both biodegradable and non-biodegradable wastes are sold to authorized vendors.

S. No	Conditions of Environmental Clearance	Status of Compliance
xv	The provision of solar water heating system shall be as per norms specified by HAREDA and shall be made operational in each building block.	As per order No. 22/52/2005-5 Power dated 14 March 2016, the Renewable Energy Department, Govt of Haryana (HAREDA), has amended the earlier order No. 22/52/2005-P dated 29 July 2005 and omitted the mandatory requirement of Solar Water Heating System in the building
xvi	The project proponent will use the water from the already existing tube wells for domestic purpose only after getting permission from CGWA or will use water supply from HUDA whichever is earlier during operation phase.	HUDA water supply is used for all operational buildings for which approval from HUDA is obtained
xvii	The traffic plan and parking plan proposed by the PP should be adhered to meticulously with further scope of additional parking for future requirement. There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized, and no public space should be used.	Proper traffic management plan had been prepared and followed to avoid congestion near the entry and exit points of the project site. Adequate parking provisions have made in parking plans to accommodate all the vehicles so that no public space is utilized.
xviii	The PP should incorporate safety of Human life in their fire fighting plan before starting operation of the project.	All necessary safety measures including fire-fighting are taken in consideration in the project design.

PART B –GENERAL CONDITIONS

S. No.	Conditions of Environmental Clearance	Status of Compliance
i	The environmental safeguards contained in the EIA/EMP should be implemented in letter and spirit	Environmental safeguards contained in Form-1, Form-1A, EMP and environmental clearance letter are being implemented in true spirit.
ii	Six-monthly monitoring reports should be submitted to the HSPCB and Regional Office, MoEF, GOI, Northern Region, Chandigarh and a copy to the SEIAA Haryana, Panchkula.	Six-monthly reports are regularly being submitted to Regional Office of the Ministry of Environment and Forests and regulatory authority as applicable by 1 st June and 1 st December every year.
iii	The SEIAA, Haryana reserves the right to add additional safeguards measures subsequently, if found necessary. Environmental Clearance granted will be revoked if it is found that false information has been given for getting approval of this project.	Necessary environmental safeguards measures as per the suggestion of SEIAA, Haryana is implemented in true spirit.
iv	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, Wildlife (Protection) Act 1972 etc., PLPA, 1900, Forest Act 1927 etc. shall be obtained as applicable by project proponents from the respective authorities prior to start of construction of the project.	All the necessary statutory clearances as applicable to this project are obtained from concerned authorities.
v.	The project proponent will not violate any judicial orders/ pronouncements issued by the Hon'ble Supreme Court/ High Courts.	Noted.

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 three locations in month of March, 2023, at the site to assess the ambient air quality of Phase V. This will enable to have a comparative analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The locations of the ambient air quality monitoring stations are given in **Table 3.1**.

Table 3.1 Details of Ambient Air Quality Monitoring Stations

S. No.	Locn. Code	Location Name/ Description	Environmental Setting
1.	AAQ-1	Belaire	Residential
2.	AAQ-2	Aralias	Residential
3.	AAQ-3	Club V	Residential

AAQ-1: Belaire

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

AAQ-2: Aralias

The sampler was placed in the project site. Vicinity represents residential environmental setting.

AAQ-3: Club V

The sampler was placed in the project site. Vicinity represents residential environmental setting.

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 (PM 10)
- Sulphur Dioxide (SO₂)
- Oxide of Nitrogen (NO₂)
- Carbon Monoxide (CO)

The duration of sampling of PM_{2.5}, PM₁₀, SO₂ and NO₂ was 24 hourly continuous sampling per day and CO was sampled for 1 hour continuous, thrice in 24 hour duration monitoring. The monitoring was conducted for one day at each location. This is to allow a comparison with the National Ambient Air Quality Standards.

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

Fine Particulate Sampler 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. Gas Chromatography techniques have been used for the estimation of CO

Table 3.2 Techniques used for Ambient Air Quality Monitoring

S. No.	Parameter	Technique	Technical Protocol
1	Particulate Matter 2.5	Fine Particulate Sampler APM 550, Gravimetric Method	IRDH/SOP/AAQM/01
2	Particulate Matter 10	Respirable Dust Sampler APM 450, with cyclone separator, Gravimetric Method	IS 5182 P- 23 (2006)
3	Sulphur dioxide	Modified West and Gaeke	IS 5182 P-02 (2001)
4	Oxides of Nitrogen	Jacob & Hochheiser	IS 5182 P-06 (2006)
5	Carbon Monoxide	Gas Chromatography	IRDH/SOP/AAQM/08

3.1.3 Ambient Air Quality Monitoring Results

The detailed on-site monitoring results of PM 2.5, PM 10, SO₂, NO₂ and CO are presented in **Table 3.3**.

Table 3.3 Ambient Air Quality Monitoring Results

S. No.	Locn. Code	Location	PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
	Limit		100	60	80	80	4.0
1	AAQ1	Belaire	175	68	10.5	25.2	1.01
2	AAQ2	Aralias	177	68	11.4	27.0	0.92
3	AAQ3	Club V	173	70	09.2	25.2	1.02

3.1.4 Discussion on Ambient Air Quality in the Study Area

PM10 and PM2.5, levels at the project site are above the permissible limit of 100 µg/m³ and 60 µg/m³ (for residential, rural and other areas as stipulated in the National Ambient Air Quality Standards). Whereas SO₂, NO₂ and CO was observed within the corresponding stipulated limits (Limit for SO₂ and NO₂: 80 µg/m³ and limit for CO: 4.0 mg/m³) at all monitoring locations. Station wise variation of ambient air quality parameters has been pictorially shown in **Figure 3.1**

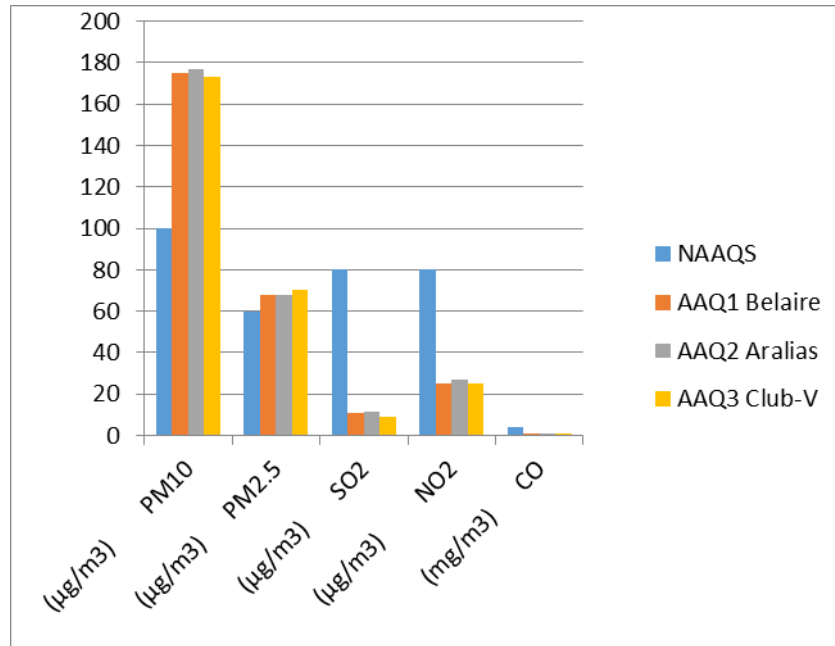


Figure 3.1 Location-wise Variation of Ambient Air Quality

3.2 AMBIANT NOISE MONITORING

3.2.1 Ambient Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels in project site & project boundary due to various construction allied activities and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at 3 locations in month of March, 2023 at the boundary of the project site as given in **Table 3.4**.

Table 3.4 Details of Ambient Noise Monitoring Stations

S. No.	Locn. Code	Location Name/ Description	Present Landuse
1.	ANQ1	Belaire	Residential
2.	ANQ2	Aralias	Residential
3.	ANQ3	Club V	Residential

3.2.2 Methodology of Noise Monitoring

Noise levels were measured using integrated sound level meter manufactured by Quest Technologies. The integrating sound level meter is an integrating/ logging type with Octave filter attachment with frequency range of 31.5 to 16000 Hz. This instrument is capable of measuring the Sound Pressure Level (SPL), Leq and octave band frequency analysis.

Noise level monitoring was carried out continuously for 24-hours with one hour interval starting at 1400 hrs to 1300 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. Monitoring was carried out at 'A' response and fast mode.

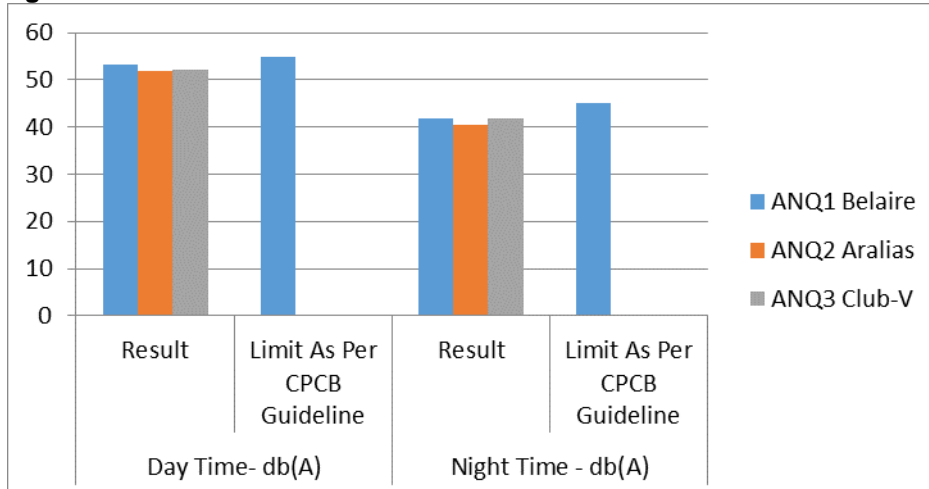
3.2.3 Ambient Noise Monitoring Results

The location wise ambient noise monitoring results is summarized in **Table 3.5**. The location-wise variation of noise levels are graphically presented in **Figure 3.2**.

Table 3.5 Ambient Noise Monitoring Results near Main Gate

Sr. No.	Test Locations	Day Time - dB(A)		Night Time - dB(A)		
		Results	Limits as per CPCB guideline	Results	Limits as per CPCB guideline	
NQ1	Belaire	Project site	53.2	55	41.8	45
NQ2	Aralias	Project site	51.8		40.6	
NQ3	Club V	Project site	52.2		41.8	

Figure 3.2 Location-wise Variation of Ambient Noise Levels near Main Gate



3.2.4 Discussion on Ambient Noise Levels in the Study Area

Day Time Noise Levels (L_{day}):

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

Night Time Noise Levels (L_{night}):

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

3.3 GROUNDWATER QUALITY MONITORING

3.3.1 Groundwater Quality Monitoring Locations

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

Water sample was collected from three locations from 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.	Locn. Code	Location Name/ Description
1.	GW 1	Belaire, Phase-V
2.	GW 2	Aralias, Phase- V
3.	GW 3	DLF Club- V, Phase- V

3.3.2 Methodology of Groundwater Quality Monitoring

Sampling of ground water was carried out on 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 Noida 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 groundwater quality monitoring results are presented in **Table 3.7**

Table 3.7 Groundwater Quality Monitoring Results

S No.	Parameter	Test Protocol	Belaire	Aralias	DLF Club V	Unit	Requirements as per IS 10500- 2012	
							Acceptable Limit (Max)	Permissible limits (Max)
1.	pH	IS 3025 P-11 1983	8.18	8.11	7.92	--	6.5-8.5	No Relaxation
2.	Turbidity	IS 3025 P-10 (1984)	<0.5	<0.5	<0.5	NTU	1	5
3.	Total Hardness	IS 3025 P-21 (2009)	440.0	428.0	428.0	mg/l	200	600
4.	Total Dissolved Solids (TDS)	IS 3025 P-16(1984)	1050.0	1068.0	1062.0	mg/l	500	2000
5.	Calcium as Ca	IS 3025 P-40 (1991)	72.0	83.2	86.4	mg/l	75	200
6.	Magnesium as Mg	IS 3025 P-46 (1994)	63.18	53.46	52.0	mg/l	30	100
7.	Total Alkalinity as CaCO ₃	IS 3025 P-23 (1986)	430.0	470.0	464.0	mg/l	200	600
8.	Chloride as Cl	IS 3025 P-32 (1988)	264.0	246.0	248.0	mg/l	250	1000
9.	Barium as Ba	Annex F of IS:13428	<0.05	<0.05	<0.05	mg/l	0.7	No Relaxation
10.	Ammonia as N	IS 3025 P-34 (1988)	<0.1	<0.1	<0.1	mg/l	0.5	No Relaxation
11.	Sulphate as SO ₄	IS 3025 P-24 (1986)	92.0	90.3	86.2	mg/l	200	400
12.	Nitrate as NO ₃	IS 3025 P-34 (1988)	22.5	23.5	26.2	mg/l	45	No Relaxation
13.	Fluoride as F	IS 3025 P-60 (2008)	0.60	0.55	0.53	mg/l	1	1.5
14.	Iron as Fe	IS 3025 P-53 (2003)	0.26	0.18	0.18	mg/l	1.0	No Relaxation
15.	Aluminium as Al	IS 3025 P-55(2003)	<0.01	<0.01	<0.01	mg/l	0.03	0.2
16.	Anionic Detergent	Annex K of IS:13428	<0.05	<0.05	<0.05	mg/l	0.2	1
17.	Phenolic Compounds	IS 3025 P-43 (1992)	<0.001	<0.001	<0.001	mg/l	0.001	0.002
18.	Boron as B	IS 3025 P-57 (2005)	<0.1	<0.1	<0.1	mg/l	0.5	2.4

19.	Chromium as Cr	IS 3025 P-52	<0.01	<0.01	<0.01	mg/l	0.05	No Relaxation
20.	Lead as Pb	IS 3025 P47 (1994)	<0.01	<0.01	<0.01	mg/l	0.01	No Relaxation
21.	Copper as Cu	IS 3025 P42 (1992)	<0.01	<0.01	<0.01	mg/l	0.05	1.5
22.	Mercury as Hg	IS 3025 P-48 (1994)	<0.001	<0.001	<0.001	mg/l	0.001	No Relaxation
23.	Manganese as Mn	IS 3025 P-59 (2006)	<0.01	<0.01	<0.01	mg/l	0.1	0.3
24.	Zinc as Zn	IS 3025 P-49 (1994)	<0.01	<0.01	<0.01	mg/l	5	15
25.	Arsenic as As	IS 3025 P-37 (1988)	<0.01	<0.01	<0.01	mg/l	0.01	No Relaxation
26.	Nickel as Ni	IS 3025 P-54 (2003)	<0.01	<0.01	<0.01	mg/l	0.02	No Relaxation
27.	Cadmium as Cd	IS 3025 P-41 (1992)	<0.001	<0.001	<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, Mg, and Ca exceeds the acceptable limit as per IS10500 standards.

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. Three samples of soil were 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.	Locn. Code	Location Name/ Description
1.	SL1	Belaire
2.	SL2	Aralias
3.	SL3	Club-V

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 Spectro-photometer 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	Belaire	Aralias	Club V	Unit
1.	pH	IS 2720 P-26 (1987)	8.15	8.30	8.26	--
2.	Conductivity	IS 14767 (RA 2016)	336.0	316.0	312.0	μS/cm
3.	Moisture	IS 2720 P-22 (1972)	12.6	13.6	10.6	% by mass
4.	Water Holding Capacity	IRDH/SOP-SL/07	19.2	20.5	18.0	%
5.	Specific Gravity	IS 2720 P-3 (1980)	1.94	1.94	1.94	-
6.	Bulk density	IRDH/SOP-SL/06	1.39	1.42	1.42	gm/cc
7.	Chloride	IRDH/SOP-SL/14	315.0	356.0	280.0	mg/kg
8.	Calcium	IRDH/SOP-SL/17	1328.0	1405.0	1208.0	mg/kg
9.	Sodium	IRDH/SOP-SL/11	155.0	172.0	136.0	mg/kg
10.	Potassium	IRDH/SOP-SL/12	65.6	56.0	78.0	mg/kg
11.	Magnesium	IRDH/SOP-SL/16	222.0	218.0	193.0	mg/kg
12.	Organic matter	IS 2720 P-22 (1972)	0.56	0.56	0.56	% by mass
13.	Cation Exchange Capacity(CEC)	IRDH/SOP-SL/09	14.4	14.8	14.6	meq/100gm
14.	Available nitrogen	IS 14684	56.0	54.5	58.2	mg/kg
15.	Available Phosphorous	IRDH/SOP-SL/10	8.1	7.62	8.12	mg/kg
16.	Iron as Fe	IRDH/SOP-SL/22	1244.0	1210.0	1204.0	mg/kg
17.	Copper as Cu	IRDH/SOP-SL/21	14.0	13.2	16.4	mg/kg
18.	Zinc as Zn	IRDH/SOP-SL/20	29.2	25.0	28.0	mg/kg
19.	Texture	IRDH/SOP-SL/08				% by mass
	Sand		60.6	59.6	60.3	
	Clay		25.2	25.8	26.5	
	Silt		14.2	14.6	13.2	
20.	Sodium Absorption Ratio(SAR)	IRDH/SOP-SL/13	1.03	1.12	0.95	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

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

No. SEIAA/HR/10 813

Dated: 5-10-10

To

M/S DLF Limited.
Shopping Mall Complex,
Arjun Marg, DLF City, Phase-I,
Gurgaon- 122002

Subject: Environmental Clearance for Expansion of DLF City Phase-V Group Housing including Community Facilities (Expansion of Magnolias, Belaire and Park place and addition of proposed Park Place EWS, Club Building- 1, Club Building -2 and Golf Course)" in Sector-42, 43, 53 & 54, Gurgaon, Haryana.

Dear Sir,

This has reference to your application no. Nil dated 08.04.2010 addressed to MS SEIAA received on 08.04.2010 and subsequent letters dated 10.05.2010 and 21.07.2010 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 the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification 21.4.2008, in its meetings held on 09.06.2010 & 10.08.2010 awarded "Gold" grading to the project.

[2] It is, interalia, noted that the project involves the construction of Expansion of DLF City Phase-V Group Housing including Community Facilities (Expansion of Magnolias, Belaire and Park place and addition of proposed Park Place EWS, Club Building- 1, Club Building -2 and Golf Course)" in Sector-42, 43, 53 & 54, Gurgaon, Haryana. The total plot area of the DLF City Phase-V is

1873798.792 sqmt (463.0265 Acres). The Existing built-up area is 406141.887 sqmt. The Project Proponent has already obtained Environmental Clearance from MOEF, GOI vide letter no. 21-435/2007-IA.III dated 08.01.2008. The Project Proponent has proposed to expand the existing group housing buildings from G + 21 to G + 29 and in addition the Project Proponent has proposed to construct EWS Park Place, Club Building-1, Club Building-2 and Golf Course. The total built-up area after expansion 1667104.035 sqmt. The DLF City after expansion will have 4175 main dwelling units: 360 service personnel dwelling unit & 378 EWS dwelling unit. The Maximum height of the building will be 89.275 meters and NOC from AAI is awaited. The fresh water requirement after expansion will be 2924.3 KLD which will be met from HUDA / Existing 15 no. of tube-wells. 3059.7 KLD of waste water will be generated which will be treated in the Common STP of 9000 KLD capacity by primary, secondary and tertiary treatment. The entire treated water will be recycled & reused leading to zero discharge. Total solid waste generation will be 10790 Kg/day which will be disposed off as per Solid Waste Management & Handling Rules. The project proponent has proposed to use bio-degradable waste for composting within the project area. The power requirement after expansion will be 41790 KW which will be supplied by Haryana Vidyut Vitran Nigam Ltd. The total parking spaces proposed are for 11948 ECS. Total cost of the expansion project is Rs. 788.25 crores.

[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 hereby accords necessary

environmental clearance for the project under Category 8(b) of EIA Notification 2006 subject to the strict compliance with the specific and general conditions mentioned below:-

PART A-

SPECIFIC CONDITIONS:-

Construction Phase:-

- [i] A first aid room as proposed in the project report will be provided in both during construction and operation phase of the project.
- [ii] Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by the labourers is strictly prohibited. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.
- [iii] All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- [iv] Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed off taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- [v] 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.
- [vi] The diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- [vii] 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.
- [viii] Ambient noise levels should conform to the residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so

as to conform to the stipulated residential standards & commercial standards wherever applicable.

- [ix] Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August 2003.
- [x] Ready mixed concrete must be used in building construction.
- [xi] Storm water control and its re-use as per CGWB and BIS standards for various applications should be ensured.
- [xii] Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- [xiii] Permission from Competent Authority for supply of water shall be obtained prior to operation of the project.
- [xiv] Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- [xv] Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
- [xvi] The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc. If any forest land is involved in the proposed site, clearance under Forest Conservation Act shall be obtained from the competent Authority.
- [xvii] The project proponent will use water for construction phase through tankers. However, prior permission from CGWA will be taken before using the bore well water for construction purposes.
- [xviii] The project proponent will construct 86 (Eighty-six) no. of rain water harvesting pits for recharging the ground water within the project premises.
- [xix] The PP should provide hydraulic ladder for escape of people during fire.
- [xx] The PP should obtain the explosive license prior to construction of building and inform to SEIAA.
- [xxi] The Project Proponent shall set up solar panel of 100 KW in the Project area.

Operation Phase:

- [i] The STP shall be installed for the treatment of the sewage generated to the prescribed standards including odour and treated effluent will be recycled to achieve zero exit discharge. The STP should be installed at the remotest place in the project area.
- [ii] 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 maximum 10 ppm and the recycled water will be used for flushing, gardening and DG set cooling and running of fountain in the water body.
- [iii] For disinfections of the treated wastewater UV radiation or ozonization should be used.
- [iv] The solid waste generated should be properly collected and segregated. Bio-degradable waste will be decomposed at site and dry inert solid waste should be disposed off to approved sites for land filling after recovering recyclable material.
- [v] Diesel power generating sets proposed as source of back up power for lifts, common area illumination and for domestic use should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The location of the DG sets should be in the basement as promised by the project proponent with appropriate stack height i.e above the roof level as per the CPCB norms. The diesel used for DG sets should be of low sulphur contents (maximum 0.25%).
- [vi] Ambient Noise level should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the proposed Residential Complex & Commercial complex.
- [vii] The project proponent should maintain at least 20% as green cover area for tree plantation especially all around the periphery of the project and on the road sides preferably with local species so as to provide protection against particulates and noise. The open spaces inside the plot should be preferably landscaped and covered with vegetation/grass.
- [viii] Weep holes in the compound front walls shall be provided to ensure natural drainage of rain water in the catchments area during the monsoon period.
- [ix] 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 should be kept at least 5 mts. above the highest ground water table.

[x] The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.

[xi] There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized and no public space should be utilized.

[xii] 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 SE:IAA, Haryana in three months time.

[xiii] Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels must be adapted to the maximum extent possible for energy conservation.

[xiv] 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 composted by vermi-composting 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.

[xv] 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.

[xvi] The project proponent will use the water from the already existing tube wells for domestic purposes only after getting permission from CGWA or will use water supply from HUDA whichever is earlier during operation phase.

[xvii] The traffic plan and the parking plan proposed by the PP should be adhered to meticulously with further scope of additional parking for future requirement. There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized and no public space should be used.

[xviii] The PP should incorporate safety of Human life in their fire fighting plan before starting operation of the project.

PART-B. GENERAL CONDITIONS:

- [i] The environmental safeguards contained in the EIA/EMP Report should be implemented in letter and spirit.
- [ii] Six monthly compliance reports should be submitted to the HSPCB and Regional Office, MOEF, GOI, Northern Region, Chandigarh and a copy to the SEIAA Haryana, Panchkula.
- [iii] 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.
- [iv] 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, PLPA, 1900, Forest Act, 1927 etc. shall be obtained, as applicable by project proponents from the respective authorities prior to start of construction of the project.
- [v] The Project proponent will not violate any judicial orders/pronouncements issued by the Hon'ble Supreme Court/High Courts.



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



Endst. No. SEIAA/HR/10

Dated:.....

A copy of the above is forwarded to the following:

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

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

ANNEXURE II



TEST REPORT



ULR : TC1122023200001467F

Party Code : D/HR/12309
*Issued to : DLF LIMITED
STP, DLF-5, Sector-43, Gurgaon, Haryana

REPORT NO. : SE0224006323/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 24/02/2023
Date of Received : 24/02/2023
Date of Issue : 02/03/2023
Start Date of Analysis : 24/02/2023
Date of Completion : 02/03/2023
Environmental Condition : 27±2°C,RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us



*Sample Name : Effluent Water (STP-Inlet)

RESULTS OF ANALYSIS

Reference : EP Act Standard

Sample Description : One Effluent water sample from inlet of STP was drawn by us on 24/02/2023

S.No.	Parameters	Units	Results	Protocols
1.	pH	NA	7.23	IS:3025 (P-11)
2.	Total Suspended Solids	mg/L	116	IS:3025 (P-17)
3.	Chemical Oxygen Demand	mg/L	476	IS:3025 (P-58)
4.	Biochemical Oxygen Demand (for 3 days at 27 Deg C	mg/L	240	IS:3025 (P-44)
5.	Oil & Grease	mg/L	4.8	IS:3025 (P-39)
6.	Phosphate (as P)	mg/L	5.6	IS:3025 (P-31)
7.	Faecal Coliform	MPN/100 ml	22000	APHA, 23rd Edition, 9221F: 2017

NA- Not Applicable

Note :- Customer asked for the above tests only.

--- End of Test Report ---

REVIEWED BY

Divyakar Sharma
D.G.M, Technical
AUTHORISED SIGNATORY.

Remarks:

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Phone : +(91)-(011) 43854300

Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com

TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER

TEST REPORT



Party Code : D/HR/12309
*Issued to : DLF LIMITED
STP, DLF-5, Sector-43, Gurgaon, Haryana

REPORT NO. : SE0224006323/O
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 24/02/2023
Date of Received : 24/02/2023
Date of Issue : 02/03/2023
Start Date of Analysis : 24/02/2023
Date of Completion : 02/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us



*Sample Name : Effluent Water (STP-Inlet)

RESULTS OF ANALYSIS

Reference : EP Act Standard

Sample Description : One Effluent water sample from inlet of STP was drawn by us on 24/02/2023

S.No.	Parameters	Units	Results	Protocols
1.	Total Nitrogen (as N)	mg/L	21.9	IS:3025 (P-34)

NA- Not Applicable

Note :- Customer asked for the above tests only.

--- End of Test Report ---

Prity
REVIEWED BY

D.G.M.
D.G.M. Technical
AUTHORISED SIGNATORY
Environment

- Remarks:
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* Indicates details provided by the customer



TEST REPORT



ULR : TC1122023200001466F

Party Code : D/HR/12309
*Issued to : DLF LIMITED
STP, DLF-5, Sector-43, Gurgaon, Haryana

REPORT NO. : SE0224006223/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 24/02/2023
Date of Received : 24/02/2023
Date of Issue : 02/03/2023
Start Date of Analysis : 24/02/2023
Date of Completion : 02/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us



*Sample Name : Effluent Water (STP-Outlet) (TWT)

RESULTS OF ANALYSIS

Reference : EP Act Standard

Sample Description : One Effluent water sample from outlet of STP was drawn by us on 24/02/2023

S.No.	Parameters	Units	Results	Limit (Max.)	Protocols
1.	pH	NA	7.32	5.5 to 9.0	IS:3025 (P-11)
2.	Total Suspended Solids	mg/L	8	20	IS:3025 (P-17)
3.	Chemical Oxygen Demand	mg/L	28	50	IS:3025 (P-58)
4.	Biochemical Oxygen Demand (for 3 days at 27 Deg C	mg/L	4	10	IS:3025 (P-44)
5.	Oil & Grease	mg/L	<3	NA	IS:3025 (P-39)
6.	Phosphate (as P)	mg/L	0.36	1.0	IS:3025 (P-31)
7.	Faecal Coliform	MPN/100 ml	31	<100	APHA, 23rd Edition, 9221F: 2017

NA- Not Applicable

Note :- Customer asked for the above tests only. The above tested parameters meets the requirement of EP Act Standard.

--- End of Test Report ---

REVIEWED BY

D. G. M. Technical
Authorized Signatory

AUTHORISED SIGNATORY

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Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com

TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER

TEST REPORT



Party Code : D/HR/12309
*Issued to : DLF LIMITED
STP, DLF-5, Sector-43, Gurgaon, Haryana

REPORT NO. : SE0224006223/O
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 24/02/2023
Date of Received : 24/02/2023
Date of Issue : 02/03/2023
Start Date of Analysis : 24/02/2023
Date of Completion : 02/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us



*Sample Name : Effluent Water (STP-Outlet) (TWT)

RESULTS OF ANALYSIS

Reference : EP Act Standard

Sample Description : One Effluent water sample from outlet of STP was drawn by us on 24/02/2023

S.No.	Parameters	Units	Results	Limit (Max.)	Protocols
1.	Total Nitrogen (as N)	mg/L	1.2	10	IS:3025 (P-34)

NA- Not Applicable

Note :- Customer asked for the above tests only. The above tested parameters meets the requirement of EP Act Standard.

--- End of Test Report ---

REVIEWED BY

Diwakar Jha
D.G.M. Technical
AUTHORISED SIGNATORY

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TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER

TEST REPORT



ULR : TC1122023200001861F

Party Code : D/HR/12309
*Issued to : DLF LIMITED
STP, DLF-5, Sector-43, Gurgaon, Haryana

REPORT NO. : SE0313003723/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 13/03/2023
Date of Received : 13/03/2023
Date of Issue : 18/03/2023
Start Date of Analysis : 13/03/2023
Date of Completion : 17/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us



*Sample Name : Effluent Water (STP-Inlet)

RESULTS OF ANALYSIS

Reference : EP Act Standard

Sample Description : One Effluent water sample from inlet of STP was drawn by us on 13/03/2023

S.No.	Parameters	Units	Results	Protocols
1.	pH	NA	7.23	IS:3025 (P-11)
2.	Total Suspended Solids	mg/L	120	IS:3025 (P-17)
3.	Chemical Oxygen Demand	mg/L	460	IS:3025 (P-58)
4.	Biochemical Oxygen Demand (for 3 days at 27 Deg C)	mg/L	210	IS:3025 (P-44)
5.	Oil & Grease	mg/L	4.2	IS:3025 (P-39)
6.	Phosphate (as P)	mg/L	5.2	IS:3025 (P-31)
7.	Faecal Coliform	MPN/100 ml	21000	APHA, 23rd Edition, 9221F: 2017

NA- Not Applicable

Note :- Customer asked for the above tests only.

--- End of Test Report ---

REVIEWED BY

AUTHORISED SIGNATORY

Divyanshu
D.G.M. Technical

Environment

Page : 1 of 1

- Remarks:
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TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER

TEST REPORT



Party Code : D/HR/12309
*Issued to : DLF LIMITED
STP, DLF-5, Sector-43, Gurgaon, Haryana

REPORT NO. : SE0313003723/O
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 13/03/2023
Date of Received : 13/03/2023
Date of Issue : 18/03/2023
Start Date of Analysis : 13/03/2023
Date of Completion : 17/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us

*Sample Name : Effluent Water (STP-Inlet)



RESULTS OF ANALYSIS

Reference : EP Act Standard

Sample Description : One Effluent water sample from inlet of STP was drawn by us on 13/03/2023

S.No.	Parameters	Units	Results	Protocols
1.	Total Nitrogen (as N)	mg/L	21.2	IS:3025 (P-34)

NA- Not Applicable

Note :- Customer asked for the above tests only.

--- End of Test Report ---

REVIEWED BY

AUTHORISED SIGNATORY

D.G.M. Technical
Environment

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TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER

TEST REPORT



ULR : TC1122023200001860F

Party Code : D/HR/12309
*Issued to : DLF LIMITED
STP, DLF-5, Sector-43, Gurgaon, Haryana

REPORT NO. : SE0313003623/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 13/03/2023
Date of Received : 13/03/2023
Date of Issue : 18/03/2023
Start Date of Analysis : 13/03/2023
Date of Completion : 17/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us



*Sample Name : Effluent Water (STP-Outlet) (TWT)

RESULTS OF ANALYSIS

Reference : EP Act Standard

Sample Description : One Effluent water sample from outlet of STP was drawn by us on 13/03/2023

S.No.	Parameters	Units	Results	Limit (Max.)	Protocols	Detection Limits
1.	pH	NA	7.43	5.5 to 9.0	IS:3025 (P-11)	NA
2.	Total Suspended Solids	mg/L	9	100	IS:3025 (P-17)	NA
3.	Chemical Oxygen Demand	mg/L	28	250	IS:3025 (P-58)	NA
4.	Biochemical Oxygen Demand (for 3 days at 27 Deg C	mg/L	3	30	IS:3025 (P-44)	NA
5.	Oil & Grease	mg/L	BDL	10	IS:3025 (P-39)	3.0
6.	Phosphate (as P)	mg/L	0.39	5.0	IS:3025 (P-31)	NA
7.	Faecal Coliform	MPN/100 ml	63	NA	APHA, 23rd Edition, 9221F: 2017	NA

NA-Not Applicable, BDL- Below Detection Limit

Note :- Customer asked for the above tests only. The above tested parameters meets the requirement of EP Act Standard.

--- End of Test Report ---

REVIEWED BY

AUTHORISED SIGNATORY
D.G.M. Technical
Simplified Signature
Registration

- Remarks:
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TEST REPORT



Party Code : D/HR/12309
*Issued to : DLF LIMITED
STP, DLF-5, Sector-43, Gurgaon, Haryana

REPORT NO. : SE0313003623/O
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 13/03/2023
Date of Received : 13/03/2023
Date of Issue : 18/03/2023
Start Date of Analysis : 13/03/2023
Date of Completion : 17/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us



*Sample Name : Effluent Water (STP-Outlet) (TWT)

RESULTS OF ANALYSIS

Reference : EP Act Standard

Sample Description : One Effluent water sample from outlet of STP was drawn by us on 13/03/2023

S.No.	Parameters	Units	Results	Limit (Max.)	Protocols	Detection Limits
1.	Total Nitrogen (as N)	mg/L	1.3	NA	IS:3025 (P-34)	NA

NA-Not Applicable, BDL- Below Detection Limit

Note :- Customer asked for the above tests only. The above tested parameters meets the requirement of EP Act Standard.

--- End of Test Report ---

REVIEWED BY

AUTHORISED SIGNATORY

D. J. Jha
J.M. Technical
Environment

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ANNEXURE III



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TC No. 5912

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

TEST REPORT (Water)

Page 1/2

Report No. :	IRDH-0323-COM-WQ-550
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Belair", Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Nature of Sample	Ground Water
Identification of Sample	Water collected from nearby project area
Date of Sampling	14/03/2023
Method of sampling	As per standard method
Date of testing:	14/03/2023 To 21/03/2023
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	8.18	--	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)	440.0	mg/l	200	600
4.	Total Dissolved Solids (TDS)	IS 3025 P-16(1984)	1050.0	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)	63.18	mg/l	30	100
7.	Total Alkalinity as CaCO ₃	IS 3025 P-23 (1986)	430.0	mg/l	200	600
8.	Chloride as Cl	IS 3025 P-32 (1988)	264.0	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)	92.0	mg/l	200	400
12.	Nitrate as NO ₃	IS 3025 P-34 (1988)	22.5	mg/l	45	No Relaxation

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Report No. - IRDH-0323-COM-WQ-550

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	0.60	mg/l	1	1.5
14.	Iron as Fe	IS 3025 P-53 (2003)	0.26	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
Manager
Authorized Signatory

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TEST REPORT (Soil)

Report No. :	IRDH-0323-COM-SL-550
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Belaire", Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Nature of Sample	Soil
Identification of Sample	Soil sample collected from Project site
Date of Sampling	14/03/2023
Method of sampling	As per standard method
Date of testing:	14/03/2023 To 21/03/2023
Sampled by	IR&DH - Team

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1.	pH	IS 2720 P-26 (1987)	8.15	--
2.	Conductivity	IS 14767 (RA 2016)	336.0	µS/cm
3.	Moisture	IS 2720 P-25 (1972)	12.6	% by mass
4.	Water Holding Capacity	IRDH/SOP-SL/07	19.2	%
5.	Specific Gravity	IS 2720 P-3 (1980)	1.94	-
6.	Bulk density	IRDH/SOP-SL/06	1.39	gm/cc
7.	Chloride	IRDH/SOP-SL/14	315.0	mg/kg
8.	Calcium	IRDH/SOP-SL/17	1328.0	mg/kg
9.	Sodium	IRDH/SOP-SL/11	155.0	mg/kg
10.	Potassium	IRDH/SOP-SL/12	65.6	mg/kg
11.	Magnesium	IRDH/SOP-SL/16	222.0	mg/kg
12.	Organic matter	IS 2720 P-22 (1972)	0.56	% by mass
13.	Cation Exchange Capacity(CEC)	IRDH/SOP-SL/09	14.4	meq/100gm
14.	Available nitrogen	IS 14684	56.0	mg/kg
15.	Available Phosphorous	IRDH/SOP-SL/10	8.1	mg/kg

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JAS-ANZ





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Report No. - IRDH-0323-COM-SL-550

Page: 2/2

S. No.	Parameter	Test Method	Results	Unit
16.	Iron as Fe	IRDH/SOP-SL/22	1244.0	mg/kg
17.	Copper as Cu	IRDH/SOP-SL/21	14.0	mg/kg
18.	Zinc as Zn	IRDH/SOP-SL/20	29.2	mg/kg
16.	Texture	IRDH/SOP-SL/08		% by mass
	Sand		60.6	
	Clay		25.2	
	Silt		14.2	
17.	Sodium Adsorption Ratio(SAR)	IRDH/SOP-SL/13	1.03	By calculation

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TEST REPORT (Ambient Air)

Report No	IRDH-0323-COM-AAQ-550
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Belaire", Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Location	Project site
Date of Sampling	14/03/2023 to 15/03/2023
Type of Monitoring	Ambient Air Monitoring(24 hourly)
Parameters to be sampled	PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , CO
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	68.7	µg/m ³	60
2.	Particulate Matter as PM ₁₀	IS 5182 P- 23 (2006)	175.0	µg/m ³	100
3.	Sulphur dioxide as SO ₂	IS 5182 P-02 (2001)	10.5	µg/m ³	80
4.	Nitrogen dioxide as NO ₂	IS 5182 P-06 (2006)	25.2	µg/m ³	80
5.	Carbon monoxide as CO	IRDH/SOP/AAQM/08	1.01	mg/m ³	4.0

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

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Manager

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TEST REPORT (Ambient Noise)

Report No	IRDH-0323-COM-ANQ-550
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Belaire", Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Location	Project site(ANQ 1)
Date of Sampling	14/03/2023 to 15/03/2023
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 (Lnight) 10:00PM - 06:00AM
ANQ -1	Project site	53.2	41.8

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

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REPORT NO. : SE0321000223/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 20/03/2023
Date of Received : 21/03/2023
Date of Issue : 24/03/2023
Start Date of Analysis : 21/03/2023
Date of Completion : 23/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : NS
SOP/Sampling Plan : SIMA/ENV/SOP/025
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us

*Sample Name : Noise Monitoring (D.G)



RESULTS OF ANALYSIS

Reference : EP Act Standard/IS:4758

Sample Description: D.G. Noise level from different points of M/S BELAIRE CONDOMONIUM ASSOCIATION was monitored by us on
20/03/2023

S.No.	Location of Sampling Point	Exposure Time	Avg. Instant Value dB(A)	Permissible Limit dB(A) (Max.)
1.	When D.G. Set No -1 (1010 KVA) ON:-		-	
2.	Noise level inside acoustic room	12:30 PM to 12:40 PM	103.6	-
3.	Noise level outside acoustic room while acoustic door closed & at a distance of 1.0 meter.	"	73.2	-
4.	Insertion Loss	"	30.4	Minimum loss of Insertion 25.0

The above mentioned noise level meets the specification of EP Act Standard.

--- End of Test Report ---

Reviewed by
REVIEWED BY

Diwakar Jha
D.O. Technical
Authorised Signatory
AUTHORISED SIGNATORY

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REPORT NO. : SE0321000323/N
 *Customer Ref.No. : NS
 *Reference Date : NS
 Date of Sampling : 20/03/2023
 Date of Received : 21/03/2023
 Date of Issue : 24/03/2023
 Start Date of Analysis : 21/03/2023
 Date of Completion : 23/03/2023
 Environmental Condition : 27±2°C,RH65±5%
 Sample Condition : OK
 *Sample Qty. : NS
 SOP/Sampling Plan : SIMA/ENV/SOP/025
 Test Method Deviation : NA
 Sample Collection : Sample Drawn By Us



*Sample Name : Noise Monitoring (D.G)

RESULTS OF ANALYSIS

Reference : EP Act Standard/IS:4758

Sample Description: D.G. Noise level from different points of M/S BELAIRE CONDOMONIUM ASSOCIATION was monitored by us on 20/03/2023

S.No.	Location of Sampling Point	Exposure Time	Avg. Instant Value dB(A)	Permissible Limit dB(A) (Max.)
1.	When D.G. Set No -2 (1500 KVA) ON:-		-	
2.	Noise level inside acoustic room	01:20 PM to 01:30 PM	105.2	-
3.	Noise level outside acoustic room while acoustic door closed & at a distance of 1.0 meter.	"	75.2	-
4.	Insertion Loss	"	30.0	Minimum loss of Insertion 25.0

The above mentioned noise level meets the specification of EP Act Standard.

--- End of Test Report ---

Rishabh
REVIEWED-BY

Dr. W. K. Jha
D. B. S. S.
AUTHORISED SIGNATORY

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TEST REPORT



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Party Code : B/HR/019
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REPORT NO. : SE0321000423/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 20/03/2023
Date of Received : 21/03/2023
Date of Issue : 24/03/2023
Start Date of Analysis : 21/03/2023
Date of Completion : 23/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : NS
SOP/Sampling Plan : SIMA/ENV/SOP/025
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us



*Sample Name : Noise Monitoring (D.G)

RESULTS OF ANALYSIS

Reference : EP Act Standard/IS:4758

Sample Description: D.G. Noise level from different points of M/S BELAIRE CONDOMONIUM ASSOCIATION was monitored by us on 20/03/2023

S.No.	Location of Sampling Point	Exposure Time	Avg. Instant Value dB(A)	Permissible Limit dB(A) (Max.)
1.	When D.G. Set No -3 (1500 KVA) ON:-		-	
2.	Noise level inside acoustic room	01:50 PM to 02:00 PM	105.2	-
3.	Noise level outside acoustic room while acoustic door closed & at a distance of 1.0 meter.	"	73.8	-
4.	Insertion Loss	"	31.4	Minimum loss of Insertion 25.0

The above mentioned noise level meets the specification of EP Act Standard.

--- End of Test Report ---

Reviewed by
REVIEWED BY

Dwakar Jha
D. Jha Technical
Authorised Signatory

AUTHORISED SIGNATORY

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TEST REPORT



ULR : TC1122023200002026F

Party Code : B/HR/019
*Issued to : BELAIRE CONDOMONIUM ASSOCIATION
The Belaire, DLF City, Phase-V, Sector-54,
Gurgaon-122011, Haryana

REPORT NO. : SE0321000523/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 20/03/2023
Date of Received : 21/03/2023
Date of Issue : 24/03/2023
Start Date of Analysis : 21/03/2023
Date of Completion : 23/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : NS
SOP/Sampling Plan : SIMA/ENV/SOP/025
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us

*Sample Name : Noise Monitoring (D.G)



RESULTS OF ANALYSIS

Reference : EP Act Standard/IS:4758

Sample Description: D.G. Noise level from different points of M/S BELAIRE CONDOMONIUM ASSOCIATION was monitored by us on 20/03/2023

S.No.	Location of Sampling Point	Exposure Time	Avg. Instant Value dB(A)	Permissible Limit dB(A) (Max.)
1.	When D.G. Set No -4 (1500 KVA) ON:-		-	
2.	Noise level inside acoustic room	02:30 PM to 02:40 PM	105.4	-
3.	Noise level outside acoustic room while acoustic door closed & at a distance of 1.0 meter.	"	72.7	-
4.	Insertion Loss	"	32.7	Minimum loss of Insertion 25.0

The above mentioned noise level meets the specification of EP Act Standard.

--- End of Test Report ---

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TEST REPORT



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Party Code : B/HR/019
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 The Belaire, DLF City, Phase-V, Sector-54,
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*Sample Name : Stack Emission
 SOP/Sampling Plan : SIMA/ENV/SOP/011
 Test Method Deviation : NA
 Sample Collection : Sample Drawn By Us

REPORT NO. : SE0321000723/N
 *Customer Ref.No. : NS
 *Reference Date : NS
 Date of Sampling : 20/03/2023
 Date of Received : 21/03/2023
 Date of Issue : 28/03/2023
 Start Date of Analysis : 21/03/2023
 Date of Completion : 27/03/2023
 Environmental Condition : 27±2°C, RH65±5%
 Sample Condition : OK
 *Sample Qty. : NS

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

Sample Description : One stack emission sample was drawn by us on 20/03/2023 between 12:30 PM to 01:00 PM
 Name of Industry : BELAIRE CONDOMONIUM ASSOCIATION
 Name of plant & Section : D.G. section
 Emission Source Monitored : D.G. stack
 Type of Fuel Used : HSD
 Stack Identification : D.G. stack no. 1 (1010 KVA)
 Normal Operating Schedule (Hrs/day) : As & when required
 Location of sampling Point : Port hole on stack
 Type of Chimney (ACC/Metal) : Metal
 Stack Height (Meters)
 a. From source of Emission : -
 b. From Roof Level : -
 c. From Ground Level : 100
 Diameter of stack (cm) : 35
 Sampling Duration (minutes) : 30
 Parameters Monitored : PM, NOx, SO2, CO & NMHC
 Purpose of Monitoring : Assessment of pollution load
 Products Manufactured : Residential complex
 Control measures (if any) : Nil
 Recovery of Material (if any) : Nil
 General Sensory observations : Normal
 Fugitive Emissions (if any) : Nil
 Stack Temperature (°C) : 308
 Ambient Temperature (°C) : 23
 Avrage Stack Velocity (m/second) : 13.11
 Quantity of Emission (Nm³/Hr) : 4110

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AUTHORISED SIGNATORY

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Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



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TEST REPORT



ULR : TC1122023200002129F

Party Code : B/HR/019

REPORT NO. : SE0321000723/N

S.No.	Parameters	Units	Results	Limits (EPA)	Protocols
1.	Particulate Matter	mg/Nm ³	60.4 (at 15% O ₂ Corr.)	75	IS:11255 (P-1) Reaff. 2019
2.	Nitrogen Oxides (as NO _x)	ppmv	159 (at 15% O ₂ Corr.)	710	IS:11255 (P-7) Reaff. 2017
3.	Sulphur Dioxide (as SO ₂)	mg/Nm ³	43.6	NA	IS:11255 (P-2) Reaff. 2019
4.	Carbon Monoxide (as CO)	mg/Nm ³	90.5 (at 15% O ₂ Corr.)	150	SIMA/ENV/STP/001
5.	Non Methane Hydrocarbons (as C)	mg/Nm ³	26.7 (at 15% O ₂ Corr.)	100	SIMA/ENV/STP/002

NA - Not Applicable

Note :-The Above mentioned parameters meets the specification of EP Act Std.

--- End of Test Report ---



Richard J
REVIEWED BY

Diyakar Jha
Dr. M. Technical
AUTHORISED SIGNATORY

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TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER



TEST REPORT



ULR : TC1122023200002130F

Party Code : B/HR/019
*Issued to : BELAIRE CONDOMONIUM ASSOCIATION
The Belaire, DLF City, Phase-V, Sector-54,
Gurgaon-122011, Haryana

REPORT NO. : SE0321000823/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 20/03/2023
Date of Received : 21/03/2023
Date of Issue : 28/03/2023
Start Date of Analysis : 21/03/2023
Date of Completion : 27/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : NS

*Sample Name : Stack Emission
SOP/Sampling Plan : SIMA/ENV/SOP/011
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

Sample Description : One stack emission sample was drawn by us on 20/03/2023 between 01:10 PM to 01:40 PM
Name of Industry : BELAIRE CONDOMONIUM ASSOCIATION
Name of plant & Section : D.G. section
Emission Source Monitored : D.G. stack
Type of Fuel Used : HSD
Stack Identification : D.G. stack no. 2 (1500 KVA)
Normal Operating Schedule (Hrs/day) : As & when required
Location of sampling Point : Port hole on stack
Type of Chimney (ACC/Metal) : Metal
Stack Height (Meters)
a. From source of Emission : -
b. From Roof Level : -
c. From Ground Level : 100
Diameter of stack (cm) : 45
Sampling Duration (minutes) : 30
Parameters Monitored : PM, NOx, SO2, CO & NMHC
Purpose of Monitoring : Assessment of pollution load
Products Manufactured : Residential complex
Control measures (if any) : Nil
Recovery of Material (if any) : Nil
General Sensory observations : Normal
Fugitive Emissions (if any) : Nil
Stack Temperature (°C) : 376
Ambient Temperature(°C) : 23
Avrage Stack Velocity (m/second) : 14.87
Quantity of Emission (Nm³/Hr) : 7707

Disalef
REVIEWED BY

Dyaker Jha
D. G. M. Technical
Authorised Signatory
AUTHORISED SIGNATORY

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TEST REPORT



ULR : TC1122023200002130F

REPORT NO. : SE0321000823/N

Party Code : B/HR/019

S.No.	Parameters	Units	Results	Limits (EPA)	Protocols
1.	Particulate Matter	mg/Nm3	64.7 (at 15% O2 Corr.)	75	IS:11255 (P-1) Reaff. 2019
2.	Nitrogen Oxides (as NOx)	ppmv	164 (at 15% O2 Corr.)	710	IS:11255 (P-7) Reaff. 2017
3.	Sulphur Dioxide (as SO2)	mg/Nm3	45.9	NA	IS:11255 (P-2) Reaff. 2019
4.	Carbon Monoxide (as CO)	mg/Nm3	92.6 (at 15% O2 Corr.)	150	SIMA/ENV/STP/001
5.	Non Methane Hydrocarbons (as C)	mg/Nm3	26.8 (at 15% O2 Corr.)	100	SIMA/ENV/STP/002

NA - Not Applicable

Note :-The Above mentioned parameters meets the specification of EP Act Std.

--- End of Test Report ---



Reviewed by
REVIEWED BY

Divakar Jha
D. Jha
AUTHORISED SIGNATORY

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TEST REPORT



ULR : TC1122023200002131F

Party Code : B/HR/019
 *Issued to : BELAIRE CONDOMONIUM ASSOCIATION
 The Belaire, DLF City, Phase-V, Sector-54,
 Gurgaon-122011, Haryana

REPORT NO. : SE0321000923/N
 *Customer Ref.No. : NS
 *Reference Date : NS
 Date of Sampling : 20/03/2023
 Date of Received : 21/03/2023
 Date of Issue : 28/03/2023
 Start Date of Analysis : 21/03/2023
 Date of Completion : 27/03/2023
 Environmental Condition : 27±2°C,RH65±5%
 Sample Condition : OK
 *Sample Qty. : NS

*Sample Name : Stack Emission
 SOP/Sampling Plan : SIMA/ENV/SOP/011
 Test Method Deviation : NA
 Sample Collection : Sample Drawn By Us

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

Sample Description : One stack emission sample was drawn by us on 20/03/2023 between 01:50 PM to 02:20 PM
 Name of Industry : BELAIRE CONDOMONIUM ASSOCIATION
 Name of plant & Section : D.G. section
 Emission Source Monitored : D.G. stack
 Type of Fuel Used : HSD
 Stack Identification : D.G. stack no. 3 (1500 KVA)
 Normal Operating Schedule (Hrs/day) : As & when required
 Location of sampling Point : Port hole on stack
 Type of Chimney (ACC/Metal) : Metal
 Stack Height (Meters)
 a. From source of Emission : -
 b. From Roof Level : -
 c. From Ground Level : 100
 Diameter of stack (cm) : 45
 Sampling Duration (minutes) : 30
 Parameters Monitored : PM, NOx, SO2, CO & NMHC
 Purpose of Monitoring : Assessment of pollution load
 Products Manufactured : Residential complex
 Control measures (if any) : Nil
 Recovery of Material (if any) : Nil
 General Sensory observations : Normal
 Fugitive Emissions (if any) : Nil
 Stack Temperature (°C) : 363
 Ambient Temperature(°C) : 24
 Avrage Stack Velocity (m/second) : 14.54
 Quantity of Emission (Nm³/Hr) : 7551

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TC-11220

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TEST REPORT



ULR : TC1122023200002131F

REPORT NO. : SE0321000923/N

Party Code : B/HR/019

S.No.	Parameters	Units	Results	Limits (EPA)	Protocols
1.	Particulate Matter	mg/Nm3	68.7 (at 15% O2 Corr.)	75	IS:11255 (P-1) Reaff. 2019
2.	Nitrogen Oxides (as NOx)	ppmv	165 (at 15% O2 Corr.)	710	IS:11255 (P-7) Reaff. 2017
3.	Sulphur Dioxide (as SO2)	mg/Nm3	48.3	NA	IS:11255 (P-2) Reaff. 2019
4.	Carbon Monoxide (as CO)	mg/Nm3	93.0 (at 15% O2 Corr.)	150	SIMA/ENV/STP/001
5.	Non Methane Hydrocarbons (as C)	mg/Nm3	26.8 (at 15% O2 Corr.)	100	SIMA/ENV/STP/002

NA - Not Applicable

Note :-The Above mentioned parameters meets the specification of EP Act Std.

--- End of Test Report ---



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Authorised
D.G.M. Technical
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TEST REPORT



ULR : TC1122023200002132F

Party Code : B/HR/019
*Issued to : BELAIRE CONDOMONIUM ASSOCIATION
The Belaire, DLF City, Phase-V, Sector-54,
Gurgaon-122011, Haryana

REPORT NO. : SE0321001023/N
*Customer Ref.No. : NS
*Reference Date : NS
Date of Sampling : 20/03/2023
Date of Received : 21/03/2023
Date of Issue : 28/03/2023
Start Date of Analysis : 21/03/2023
Date of Completion : 27/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : NS

*Sample Name : Stack Emission
SOP/Sampling Plan : SIMA/ENV/SOP/011
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

Sample Description : One stack emission sample was drawn by us on 20/03/2023 between 02:30 PM to 03:00 PM
Name of Industry : BELAIRE CONDOMONIUM ASSOCIATION
Name of plant & Section : D.G. section
Emission Source Monitored : D.G. stack
Type of Fuel Used : HSD
Stack Identification : D.G. stack no. 4 (1500 KVA)
Normal Operating Schedule (Hrs/day) : As & when required
Location of sampling Point : Port hole on stack
Type of Chimney (ACC/Metal) : Metal
Stack Height (Meters)
a. From source of Emission : -
b. From Roof Level : -
c. From Ground Level : 100
Diameter of stack (cm) : 45
Sampling Duration (minutes) : 30
Parameters Monitored : PM, NO_x, SO₂, CO & NMHC
Purpose of Monitoring : Assessment of pollution load
Products Manufactured : Residential complex
Control measures (if any) : Nil
Recovery of Material (if any) : Nil
General Sensory observations : Normal
Fugitive Emissions (if any) : Nil
Stack Temperature (°C) : 376
Ambient Temperature(°C) : 24
Avrage Stack Velocity (m/second) : 14.42
Quantity of Emission (Nm³/Hr) : 7474

Reviewed by
REVIEWED BY

Authorized Signatory
D.G.M. Technical
Authorized Signatory
AUTHORISED SIGNATORY

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TEST REPORT



ULR : TC1122023200002132F

Party Code : B/HR/019

REPORT NO. : SE0321001023/N

S.No.	Parameters	Units	Results	Limits (EPA)	Protocols
1.	Particulate Matter	mg/Nm3	66.9 (at 15% O2 Corr.)	75	IS:11255 (P-1) Reaff. 2019
2.	Nitrogen Oxides (as NOx)	ppmv	168 (at 15% O2 Corr.)	710	IS:11255 (P-7) Reaff. 2017
3.	Sulphur Dioxide (as SO2)	mg/Nm3	50.6	NA	IS:11255 (P-2) Reaff. 2019
4.	Carbon Monoxide (as CO)	mg/Nm3	94.2 (at 15% O2 Corr.)	150	SIMA/ENV/STP/001
5.	Non Methane Hydrocarbons (as C)	mg/Nm3	27.3 (at 15% O2 Corr.)	100	SIMA/ENV/STP/002

NA - Not Applicable

Note :-The Above mentioned parameters meets the specification of EP Act Std.

--- End of Test Report ---



Dishant
REVIEWED BY

Dishant
Dishant Singh
D.G.M. Technical
AUTHORISED SIGNATORY
Environment

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TEST REPORT



ULR : TC1122023200002141F

Party Code : B/HR/019
*Issued to : BELAIRE CONDOMONIUM ASSOCIATION

The Belaire, DLF City, Phase-V, Sector-54,
Gurgaon-122011, Haryana

REPORT NO. : SE0321001123/N
*Customer Ref.No. : NS

*Reference Date : NS
Date of Sampling : 20/03/2023
Date of Received : 21/03/2023
Date of Issue : 28/03/2023
Start Date of Analysis : 21/03/2023
Date of Completion : 25/03/2023
Environmental Condition : 27±2°C, RH65±5%
Sample Condition : OK
*Sample Qty. : 1 Ltr.
SOP/Sampling Plan : SIMA/ENV/SOP/024
Test Method Deviation : NA
Sample Collection : Sample Drawn By Us

*Sample Name : Drinking Water

RESULTS OF ANALYSIS

Reference : IS 10500 -2012

Sample Description : Clear colourless liquid

S.No.	Parameters	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
1.	Colour	Hazen	<2	Max. 5	Max. 15	IS:3025 (P-4)	NA
2.	Odour	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-5)	NA
3.	Taste	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-7 & 8)	NA
4.	Turbidity	NTU	<1.0	Max. 1.0	Max. 5.0	IS:3025 (P-10)	NA
5.	pH	NA	7.42	6.5 to 8.5	No Relaxation	IS:3025 (P-11)	NA
6.	Total Dissolved Solids	mg/L	274	Max. 500	Max. 2000	IS:3025 (P-16)	NA
7.	Total Hardness (as CaCO3)	mg/L	153	Max. 200	Max. 600	IS:3025 (P-21)	NA
8.	Calcium (as Ca)	mg/L	34.7	Max. 75	Max. 200	IS:3025 (P-40)	NA
9.	Magnesium (as Mg)	mg/L	16.1	Max. 30	Max. 100	IS:3025 (P-46)	NA
10.	Chloride (as Cl)	mg/L	42	Max. 250	Max. 1000	IS:3025 (P-32)	NA
11.	Sulphate (as SO4)	mg/L	9	Max. 200	Max. 400	IS:3025 (P-24)	NA
12.	Iron (as Fe)	mg/L	BDL	Max. 1.0	No relaxation	IS:3025 (P-53)	0.05
13.	Free residual chlorine (as Cl2)	mg/L	BDL	Min. 1.0	Min. 1.0	IS:3025 (P-26)	0.1

REVIEWED BY

Pratibha Rawat
Technical Manager
Authorized Signatory
Microbiology

AUTHORISED SIGNATORY

Remarks: 1. The Results listed refer only to the above tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Liability of laboratory is limited to the invoiced amount only. Any dispute arising out of this report shall be subject to Delhi jurisdiction only.
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5. SIMA Labs Pvt. Ltd. will not be held responsible for the authenticity of any photocopied, forged and or partially presented test reports.
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7. Re-testing charges will be applicable in case the results are reproducible.
8. Duplicable copy will be issued on chargeable basis.
9. This Test Report is not valid without a hologram.

Page : 1 of 2
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Sophisticated Industrial Materials
Analytic Labs Pvt. Ltd.

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Address : A-3/7, Mayapuri Industrial Area, Ph-II, New Delhi - 110064

Phone : +(91)-(011) 43854300

Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

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TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER



TEST REPORT



ULR : TC1122023200002141F

Party Code : B/HR/019

REPORT NO. : SE0321001123/N

S.No.	Parameters	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
14.	E.Coli	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS:15185:2016	NA
15.	Total Coliform	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS:15185:2016	NA

The above tested parameters meets the requirement of IS:10500-2012

Specification (Acceptable Limit) wrt above test only.

NA-Not Applicable, BDL- Below Detection Limit

Note :- Customer asked for the above tests only.

--- End of Test Report ---



Pratibha Rawat
REVIEWED BY

Pratibha Rawat
Technical Manager
Authorised Signatory
Microbiology

Divakar Dha
D. G. ...
AUTHORISED SIGNATORY
Environment

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ANNEXURE IV



IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

(MOEF&CC Recognized Laboratory)
(ISO 9001:2015/ISO14001:2015/ ISO 45001:2018)
C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)



TC No. 5912

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

TEST REPORT

(Water)

Page 1/2

Report No. :	IRDH-0323-COM-WQ-548
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Aralias", Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Nature of Sample	Ground Water
Identification of Sample	Water collected from nearby project area
Date of Sampling	14/03/2023
Method of sampling	As per standard method
Date of testing:	14/03/2023 To 21/03/2023
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	8.11	--	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)	428.0	mg/l	200	600
4.	Total Dissolved Solids (TDS)	IS 3025 P-16(1984)	1068.0	mg/l	500	2000
5.	Calcium as Ca	IS 3025 P-40 (1991)	83.2	mg/l	75	200
6.	Magnesium as Mg	IS 3025 P-46 (1994)	53.46	mg/l	30	100
7.	Total Alkalinity as CaCO ₃	IS 3025 P-23 (1986)	470.0	mg/l	200	600
8.	Chloride as Cl	IS 3025 P-32 (1988)	246.0	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)	90.3	mg/l	200	400
12.	Nitrate as NO ₃	IS 3025 P-34 (1988)	23.5	mg/l	45	No Relaxation

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Tel.: +91 11 27571410, 64607252
E-mail : ithconsult@hotmail.com



JAS-ANZ





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Report No. - IRDH-0323-COM-WQ-548

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	0.55	mg/l	1	1.5
14.	Iron as Fe	IS 3025 P-53 (2003)	0.18	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

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TEST REPORT

(Soil)

Report No. :	IRDH-0323-COM-SL-548
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Aralias", Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Nature of Sample	Soil
Identification of Sample	Soil sample collected from Project area
Date of Sampling	14/03/2023
Method of sampling	As per standard method
Date of testing:	14/03/2023 To 21/03/2023
Sampled by	IR&DH - Team

RESULTS

S. No.	Parameter	Test Method	Results	Unit
1.	pH	IS 2720 P-26 (1987)	8.30	--
2.	Conductivity	IS 14767 (RA 2016)	316.0	μS/cm
3.	Moisture	IS 2720 P-25 (1972)	13.6	% by mass
4.	Water Holding Capacity	IRDH/SOP-SL/07	20.5	%
5.	Specific Gravity	IS 2720 P-3 (1980)	1.94	-
6.	Bulk density	IRDH/SOP-SL/06	1.42	gm/cc
7.	Chloride	IRDH/SOP-SL/14	356.0	mg/kg
8.	Calcium	IRDH/SOP-SL/17	1405.0	mg/kg
9.	Sodium	IRDH/SOP-SL/11	172.0	mg/kg
10.	Potassium	IRDH/SOP-SL/12	56.0	mg/kg
11.	Magnesium	IRDH/SOP-SL/16	218.0	mg/kg
12.	Organic matter	IS 2720 P-22 (1972)	0.56	% by mass
13.	Cation Exchange Capacity(CEC)	IRDH/SOP-SL/09	14.8	meq/100gm
14.	Available nitrogen	IS 14684	54.5	mg/kg
15.	Available Phosphorous	IRDH/SOP-SL/10	7.62	mg/kg

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Report No. - IRDH-0323-COM-SL-548

Page: 2/2

S. No.	Parameter	Test Method	Results	Unit
16.	Iron as Fe	IRDH/SOP-SL/22	1210.0	mg/kg
17.	Copper as Cu	IRDH/SOP-SL/21	13.2	mg/kg
18.	Zinc as Zn	IRDH/SOP-SL/20	25.0	mg/kg
19.	Texture	IRDH/SOP-SL/08		% by mass
	Sand		59.6	
	Clay		25.8	
	Silt		14.6	
20.	Sodium Adsorption Ratio(SAR)	IRDH/SOP-SL/13	1.12	By calculation

End of Report

Dr. SNA Rizvi
Manager
Authorized Signatory

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TEST REPORT (Ambient Air)

Report No	IRDH-0323-COM-AAQ-548
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Aralias", Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Location	Project site
Date of Sampling	14/03/2023 to 15/03/2023
Type of Monitoring	Ambient Air Monitoring(24 hourly)
Parameters to be sampled	PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , CO
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	68.0	µg/m ³	60
2.	Particulate Matter as PM ₁₀	IS 5182 P- 23 (2006)	177.0	µg/m ³	100
3.	Sulphur dioxide as SO ₂	IS 5182 P-02 (2001)	11.4	µg/m ³	80
4.	Nitrogen dioxide as NO ₂	IS 5182 P-06 (2006)	27.0	µg/m ³	80
5.	Carbon monoxide as CO	IRDH/SOP/AAQM/08	0.92	mg/m ³	4.0

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

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E-mail : ithconsult@hotmail.com





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C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)

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TEST REPORT (Ambient Noise)

Report No	IRDH-0323-COM-ANQ-548
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Aralias", Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Location	Project site(ANQ 1)
Date of Sampling	14/03/2023 to 15/03/2023
Type of Monitoring	Ambient Noise Monitoring
Method of sampling	As per standard Method
Sampling Protocol	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 (Lnight) 10:00PM - 06:00AM
ANQ -1	Project site	52.2	41.6

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

Dr. SNA Rizvi
Manager
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UNIVERSAL ANALYTICAL LAB

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E-mail : info@universallab.in, universalanalyticallab.com
www.universallab.in, Mob.: +91 9992929181, +91 9729948882, +91 8569966516



CERTIFICATE NO. Q-1516-0450

AN ISO 9001 CERTIFIED & GOVERNMENT APPROVED LABORATORY

Report No: UAL/DH/-1045/01/23

Date: 28/01/2023

Issued to:

Cushman & Wakefield PMSI Pvt. Ltd.
THE ARLIAS Near Tower No-8 Golf Course
Road, DLF Phase-V, Gurgaon,(HR) 122009

Party's Ref No: Verbal

Dated: 24/01/2023

Lab Job Order No: 1517/01/2023

Period of Testing: 26/01/2023 to 28/01/2023

TEST REPORT

A. SAMPLE PARTICULARS:

1. Name of the Unit	:	THE ARLIAS
2. Name of Plant/Section	:	DG Section
3. Capacity of DG	:	500 KVA (DG-I)
4. Type of the Sample	:	DG Stack Emission
5. Date & Time of Sampling	:	26/01/2023 12:00 PM to 04:30 PM
6. Type of Fuel Used	:	Diesel
7. Stack height(From the Ground level)	:	65 Meter
8. Stack diameter	:	8 Inch
9. Point of Sample Collection	:	From Port hole of stack.
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.
12. Sampling Procedure	:	As per IS 11255
13. Sampling Plan	:	5.7 F-01 (C)
14. Weather Condition	:	Clear Sky

B. OBSERVATIONS:

1. Stack Temperature, °C	:	221
2. Ambient Temperature, °C	:	17
3. Flue gas velocity, m/sec	:	10.26
4. Sampling flow rate, lt./min.	:	26
5. Period of sampling, minutes	:	38
6. Volumetric flow rate, Nm ³ /Hr.	:	694.3

C. TEST RESULTS:

S.No.	Parameter	Results	Standard Limits	Test Method
1.	PM(Particulate Matter),gm/kwh	0.097	0.2	IS 11255(P-1)
2.	SOx, gm/kwh	0.048	N.S.	IS 11255(P-2)
3.	NOx+HC, gm/kwh	0.62+0.033	4.0	IS 11255(P-7)USEPA(P-25A)
4.	Carbon Mono Oxide(CO), gm/kwh	0.16	3.5	IS 13270

Akshay
Mgr. / Sr. Analyst
Akshay

Ajeet Singh
Authorized Signatory
Ajeet Singh
Technical Manager



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4. The results are related to the test items only.

Page 1 of 1

Testing Facilities : Drinking Water, Borewell Water, ETP/STP, water, Construction Water, DM Water, Ambient Air, Stack Emission,
Work Zone Air Quality, Noise Level, Lux Level and food Testing etc.



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E-mail : info@universallab.in, universalanalyticallab.com
www.universallab.in, Mob.: +91 9992929181, +91 9729948882, +91 8569966516



AN ISO 9001 CERTIFIED & GOVERNMENT APPROVED LABORATORY

Report No: UAL/DH/-1046/01/23

Date: 28/01/2023

Issued to:

Cushman & Wakefield PMSI Pvt. Ltd.
THE ARA LIAS Near Tower No-8 Golf Course
Road, DLF Phase-V, Gurgaon,(HR) 122009

Party's Ref No: Verbal

Dated: 24/01/2023

Lab Job Order No: 1518/01/2023

Period of Testing: 26/01/2023 to 28/01/2023

TEST REPORT

A. SAMPLE PARTICULARS:

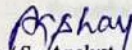
1. Name of the Unit	:	THE ARA LIAS
2. Name of Plant/Section	:	DG Section
3. Capacity of DG	:	500 KVA (DG-II)
4. Type of the Sample	:	DG Stack Emission
5. Date & Time of Sampling	:	26/01/2023 12:00 PM to 04:30 PM
6. Type of Fuel Used	:	Diesel
7. Stack height(From the Ground level)	:	65 Meter
8. Stack diameter	:	8 Inch
9. Point of Sample Collection	:	From Port hole of stack.
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.
12. Sampling Procedure	:	As per IS 11255
13. Sampling Plan	:	5.7 F-01 (C)
14. Weather Condition	:	Clear Sky

B. OBSERVATIONS:

1. Stack Temperature, °C	:	220
2. Ambient Temperature, °C	:	17
3. Flue gas velocity, m/sec	:	10.15
4. Sampling flow rate, lt./min.	:	25
5. Period of sampling, minutes	:	40
6. Volumetric flow rate, Nm ³ /Hr.	:	688.3

C. TEST RESULTS:

S.No.	Parameter	Results	Standard Limits	Test Method
1.	PM(Particulate Matter),gm/kwh	0.088	0.2	IS 11255(P-1)
2.	SOx,gm/kwh	0.047	N.S.	IS 11255(P-2)
3.	NOx+HC, gm/kwh	0.58+0.031	4.0	IS 11255(P-7)USEPA(P-25A)
4.	Carbon Mono Oxide(CO), gm/kwh	0.16	3.5	IS 13270


Mgr. / Sr. Analyst
Akshay


Authorized Signatory
Ajeet Singh
Technical Manager



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Report No: UAL/DH/-1041/01/23

Date: 28/01/2023

Issued to:
Cushman & Wakefield PMSI Pvt. Ltd.
THE ARLIAS Near Tower No-8 Golf Course
Road, DLF Phase-V, Gurgaon,(HR) 122009

Party's Ref No: Verbal
Dated: 24/01/2023
Lab Job Order No: 1513/01/2023
Period of Testing: 26/01/2023 to 28/01/2023

TEST REPORT

A. SAMPLE PARTICULARS:

- | | | |
|--|---|---------------------------------|
| 1. Name of the Unit | : | THE ARLIAS |
| 2. Name of Plant/Section | : | DG Section |
| 3. Capacity of DG | : | 1010 KVA (DG-III) |
| 4. Type of the Sample | : | DG Stack Emission |
| 5. Date & Time of Sampling | : | 26/01/2023 12:00 PM to 04:30 PM |
| 6. Type of Fuel Used | : | Diesel |
| 7. Stack height(From the Ground level) | : | 65 Meter |
| 8. Stack diameter | : | 8 Inch |
| 9. Point of Sample Collection | : | From Port hole of stack. |
| 10. Purpose of Analysis | : | Monitoring |
| 11. Sample Collected/ Supplied by | : | Lab Rep. |
| 12. Sampling Procedure | : | As per IS 11255 |
| 13. Sampling Plan | : | 5.7 F-01 (C) |
| 14. Weather Condition | : | Clear Sky |

B. OBSERVATIONS:

- | | | |
|---|---|-------|
| 1. Stack Temperature, °C | : | 232 |
| 2. Ambient Temperature, °C | : | 17 |
| 3. Flue gas velocity, m/sec | : | 11.01 |
| 4. Sampling flow rate, lt./min. | : | 27 |
| 5. Period of sampling, minutes | : | 37 |
| 6. Volumetric flow rate, Nm ³ /Hr. | : | 728.8 |

C. TEST RESULTS:

S. No.	Parameters	Results	Standard Limits	Test Method
1.	PM(Particulate Matter),mg/Nm ³	48.5	75	IS 11255(P-1)
2.	Sulphur dioxide(SO ₂), mg/Nm ³	38.1	N.S.	IS 11255(P-2)
3.	Oxides of Nitrogen(NO ₂), ppmv	204.3	710	IS 11255(P-7)
4.	Carbon Mono Oxide(CO), mg/Nm ³	81.6	150	IS 13270
5.	Hydro Carbon NMHC, mg/Nm ³	15.0	100	USEPA(P-25A)

Remarks: - The results of above parameters are corrected to 15% of O₂

Akshay
Mgr. / Sr./Analyst
Akshay



Ajeet Singh
Authorized Signatory
Ajeet Singh
Technical Manager

Note : 1. This report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of law.
2. This report should not be used in any advertising media without our special permission in writing.
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4. The results are related to the test items only.

Report No: UAL/DH/-1042/01/23

Date: 28/01/2023

Issued to:

Cushman & Wakefield PMSI Pvt. Ltd.
THE ARLIAS Near Tower No-8 Golf Course
Road, DLF Phase-V, Gurgaon,(HR) 122009

Party's Ref No: Verbal

Dated: 24/01/2023

Lab Job Order No: 1514/01/2023

Period of Testing: 26/01/2023 to 28/01/2023

TEST REPORT

A. SAMPLE PARTICULARS:

1. Name of the Unit	:	THE ARLIAS
2. Name of Plant/Section	:	DG Section
3. Capacity of DG	:	1010 KVA (DG-IV)
4. Type of the Sample	:	DG Stack Emission
5. Date & Time of Sampling	:	26/01/2023 12:00 PM to 04:30 PM
6. Type of Fuel Used	:	Diesel
7. Stack height(From the Ground level)	:	65 Meter
8. Stack diameter	:	8 Inch
9. Point of Sample Collection	:	From Port hole of stack.
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.
12. Sampling Procedure	:	As per IS 11255
13. Sampling Plan	:	5.7 F-01 (C)
14. Weather Condition	:	Clear Sky

B. OBSERVATIONS:

1. Stack Temperature, °C	:	230
2. Ambient Temperature, °C	:	17
3. Flue gas velocity, m/sec	:	11.08
4. Sampling flow rate, lt./min.	:	27
5. Period of sampling, minutes	:	37
6. Volumetric flow rate, Nm ³ /Hr.	:	736.4

C. TEST RESULTS:

S. No.	Parameters	Results	Standard Limits	Test Method
1.	PM(Particulate Matter),mg/Nm ³	45.3	75	IS 11255(P-1)
2.	Sulphur dioxide(SO ₂), mg/Nm ³	34.1	N.S.	IS 11255(P-2)
3.	Oxides of Nitrogen(NO ₂), ppmv	196.1	710	IS 11255(P-7)
4.	Carbon Mono Oxide(CO), mg/Nm ³	77.1	150	IS 13270
5.	Hydro Carbon NMHC, mg/Nm ³	13.1	100	USEPA(P-25A)

Remarks: - The results of above parameters are corrected to 15% of O₂

Mgr. Sr. Analyst
 Akshay



Authorized Signatory
 Ajeet Singh
 Technical Manager

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 4. The results are related to the test items only.



Report No: UAL/DH/-1043/01/23

Date: 28/01/2023

Issued to:

Cushman & Wakefield PMSI Pvt. Ltd.
THE ARALIAS Near Tower No-8 Golf Course
Road, DLF Phase-V, Gurgaon,(HR) 122009

Party's Ref No: Verbal

Dated: 24/01/2023

Lab Job Order No: 1515/01/2023

Period of Testing: 26/01/2023 to 28/01/2023

TEST REPORT

A. SAMPLE PARTICULARS:

1. Name of the Unit	:	THE ARALIAS
2. Name of Plant/Section	:	DG Section
3. Capacity of DG	:	1010 KVA (DG-V)
4. Type of the Sample	:	DG Stack Emission
5. Date & Time of Sampling	:	26/01/2023 12:00 PM to 04:30 PM
6. Type of Fuel Used	:	Diesel
7. Stack height(From the Ground level)	:	65 Meter
8. Stack diameter	:	8 Inch
9. Point of Sample Collection	:	From Port hole of stack.
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.
12. Sampling Procedure	:	As per IS 11255
13. Sampling Plan	:	5.7 F-01 (C)
14. Weather Condition	:	Clear Sky

B. OBSERVATIONS:

1. Stack Temperature, °C	:	231
2. Ambient Temperature, °C	:	17
3. Flue gas velocity, m/sec	:	10.91
4. Sampling flow rate, lt./min.	:	27
5. Period of sampling, minutes	:	37
6. Volumetric flow rate, Nm ³ /Hr.	:	723.7

C. TEST RESULTS:

S. No.	Parameters	Results	Standard Limits	Test Method
1.	PM(Particulate Matter),mg/Nm ³	46.3	75	IS 11255(P-1)
2.	Sulphur dioxide(SO ₂), mg/Nm ³	41.4	N.S.	IS 11255(P-2)
3.	Oxides of Nitrogen(NO ₂), ppmv	209.1	710	IS 11255(P-7)
4.	Carbon Mono Oxide(CO), mg/Nm ³	83.1	150	IS 13270
5.	Hydro Carbon NMHC, mg/Nm ³	17.7	100	USEPA(P-25A)

Remarks: - The results of above parameters are corrected to 15% of O₂

Mgr. / Sr. Analyst
Akshay



Authorized Signatory
Ajeet Singh
Technical Manager

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UNIVERSAL ANALYTICAL LAB

Plot No -77-77A, Khevat No. 222, Opposite HUDA Sector- 4A, Nagarpalika, Dharuhera-123106, Distt Rewari (Haryana)
E-mail : info@universallab.in, universallanalyticallab.com
www.universallab.in, Mob.: +91 9992929181, +91 9729948882, +91 8569966516

SYSTEM VERIFICATION SERVICES
CERTIFICATE NO. Q-1516-0450

AN ISO 9001 CERTIFIED & GOVERNMENT APPROVED LABORATORY

Report No: UAL/DH/-1044/01/23

Date: 28/01/2023

Issued to:

Cushman & Wakefield PMSI Pvt. Ltd.
THE ARALIAS Near Tower No-8 Golf Course
Road, DLF Phase-V, Gurgaon,(HR) 122009

Party's Ref No: Verbal

Dated: 24/01/2023

Lab Job Order No: 1516/01/2023

Period of Testing: 26/01/2023 to 28/01/2023

TEST REPORT

A. SAMPLE PARTICULARS:

1. Name of the Unit	:	THE ARALIAS
2. Name of Plant/Section	:	DG Section
3. Capacity of DG	:	1010 KVA (DG-VI)
4. Type of the Sample	:	DG Stack Emission
5. Date & Time of Sampling	:	26/01/2023 12:00 PM to 04:30 PM
6. Type of Fuel Used	:	Diesel
7. Stack height(From the Ground level)	:	65 Meter
8. Stack diameter	:	8 Inch
9. Point of Sample Collection	:	From Port hole of stack.
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.
12. Sampling Procedure	:	As per IS 11255
13. Sampling Plan	:	5.7 F-01 (C)
14. Weather Condition	:	Clear Sky


B. OBSERVATIONS:

1. Stack Temperature, °C	:	228
2. Ambient Temperature, °C	:	17
3. Flue gas velocity, m/sec	:	11.06
4. Sampling flow rate, lt./min.	:	27
5. Period of sampling, minutes	:	37
6. Volumetric flow rate, Nm ³ /Hr.	:	738.0

C. TEST RESULTS:

S. No.	Parameters	Results	Standard Limits	Test Method
1.	PM(Particulate Matter),mg/Nm ³	48.6	75	IS 11255(P-1)
2.	Sulphur dioxide(SO ₂), mg/Nm ³	37.0	N.S.	IS 11255(P-2)
3.	Oxides of Nitrogen(NO ₂), ppmv	217.0	710	IS 11255(P-7)
4.	Carbon Mono Oxide(CO), mg/Nm ³	84.8	150	IS 13270
5.	Hydro Carbon NMHC, mg/Nm ³	16.6	100	USEPA(P-25A)

Remarks: - The results of above parameters are corrected to 15% of O₂


Mgr. / Sr Analyst
Akshay




Authorized Signatory
Ajeet Singh
Technical Manager

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Page 1 of 1

Testing Facilities : Drinking Water, Borewell Water, ETP/STP, water, Construction Water, DM Water, Ambient Air, Stack Emission,
Work Zone Air Quality, Noise Level, Lux Level and food Testing etc.

ANNEXURE V



IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

(MOEF&CC Recognized Laboratory)
(ISO 9001:2015/ISO14001:2015/ ISO 45001:2018)
C-10, 2nd Floor, Sector-6, Noida-201301 (U.P.)



TC No. 5912

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

TEST REPORT

Page 1/2

(Water)

Report No. :	IRDH-0323-COM-WQ-549
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Club – V" Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Nature of Sample	Ground Water
Identification of Sample	Water collected from nearby project area
Date of Sampling	14/03/2023
Method of sampling	As per standard method
Date of testing:	14/03/2023 To 21/03/2023
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	7.92	--	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)	428.0	mg/l	200	600
4.	Total Dissolved Solids (TDS)	IS 3025 P-16(1984)	1062.0	mg/l	500	2000
5.	Calcium as Ca	IS 3025 P-40 (1991)	86.4	mg/l	75	200
6.	Magnesium as Mg	IS 3025 P-46 (1994)	52.0	mg/l	30	100
7.	Total Alkalinity as CaCO ₃	IS 3025 P-23 (1986)	464.0	mg/l	200	600
8.	Chloride as Cl	IS 3025 P-32 (1988)	248.0	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)	86.2	mg/l	200	400
12.	Nitrate as NO ₃	IS 3025 P-34 (1988)	26.2	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





IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.



TC No. 5912

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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-549

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	0.53	mg/l	1	1.5
14.	Iron as Fe	IS 3025 P-53 (2003)	0.18	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

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TEST REPORT (Soil)

Report No. :	IRDH-0323-COM-SL-549
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Club - V" Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Nature of Sample	Soil
Identification of Sample	Soil sample collected from Project site
Date of Sampling	14/03/2023
Method of sampling	As per standard method
Date of testing:	14/03/2023 To 21/03/2023
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)	312.0	µS/cm
3.	Moisture	IS 2720 P-25 (1972)	10.6	% by mass
4.	Water Holding Capacity	IRDH/SOP-SL/07	18.0	%
5.	Specific Gravity	IS 2720 P-3 (1980)	1.94	-
6.	Bulk density	IRDH/SOP-SL/06	1.42	gm/cc
7.	Chloride	IRDH/SOP-SL/14	280.0	mg/kg
8.	Calcium	IRDH/SOP-SL/17	1208.0	mg/kg
9.	Sodium	IRDH/SOP-SL/11	136.0	mg/kg
10.	Potassium	IRDH/SOP-SL/12	78.0	mg/kg
11.	Magnesium	IRDH/SOP-SL/16	193.0	mg/kg
12.	Organic matter	IS 2720 P-22 (1972)	0.56	% by mass
13.	Cation Exchange Capacity(CEC)	IRDH/SOP-SL/09	14.6	meq/100gm
14.	Available nitrogen	IS 14684	58.2	mg/kg
15.	Available Phosphorous	IRDH/SOP-SL/10	8.12	mg/kg

Head Office: G-8/6, Ground Floor,
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E-mail : ithconsult@hotmail.com





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Report No. - IRDH-0323-COM-SL-549

Page: 2/2

S. No.	Parameter	Test Method	Results	Unit
16.	Iron as Fe	IRDH/SOP-SL/22	1204.0	mg/kg
17.	Copper as Cu	IRDH/SOP-SL/21	16.4	mg/kg
18.	Zinc as Zn	IRDH/SOP-SL/20	28.0	mg/kg
19.	Texture	IRDH/SOP-SL/08	60.3	% by mass
	Sand			
	Clay			
	Silt			
20.	Sodium Adsorption Ratio(SAR)	IRDH/SOP-SL/13	0.95	By calculation

End of Report

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TEST REPORT (Ambient Air)

Report No	IRDH-0323-COM-AAQ-549
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Club - V" Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Location	Project site
Date of Sampling	14/03/2023 to 15/03/2023
Type of Monitoring	Ambient Air Monitoring(24 hourly)
Parameters to be sampled	PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , CO
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	70.0	µg/m ³	60
2.	Particulate Matter as PM ₁₀	IS 5182 P- 23 (2006)	173.0	µg/m ³	100
3.	Sulphur dioxide as SO ₂	IS 5182 P-02 (2001)	09.2	µg/m ³	80
4.	Nitrogen dioxide as NO ₂	IS 5182 P-06 (2006)	25.2	µg/m ³	80
5.	Carbon monoxide as CO	IRDH/SOP/AAQM/08	1.02	mg/m ³	4.0

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

End of Report

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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-549
Date of Reporting	21/03/2023
Issued to	M/s Ind Tech House Consult, G-8/6, Ground Floor, Sector-11, Rohini, Delhi-110085
Project Name	Group Housing Project "Club – V" Expansion of DLF City Phase-V, Gurgaon, Haryana By M/S DLF Limited
Location	Project site(ANQ 1)
Date of Sampling	14/03/2023 to 15/03/2023
Type of Monitoring	Ambient Noise Monitoring
Method of sampling	As per standard Method
Sampling Protocol	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 (Lnight) 10:00PM - 06:00AM
ANQ -1	Project site	52.2	41.8

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


Dr. SNA Rizvi
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Sector-11, Rohini, Delhi-110085
Tel.: +91 11 27571410, 64607252
E-mail : ithconsult@hotmail.com

JAS-ANZ



ANNEXURE VI

DLF Ltd.

DLF Centre, Sansad Marg, New Delhi-110 001 India
Tel. (+91-11) 23719300, 42102030
Fax. (+91-11) 23719344, 23719212



CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE FINANCE COMMITTEE OF THE BOARD OF DIRECTORS OF DLF LIMITED IN ITS MEETING HELD ON SEPTEMBER 12, 2012 AT 10TH FLOOR, DLF CENTRE, SANSAD MARG, NEW DELHI-110001.

"RESOLVED THAT Mr. Devinder Singh, Sr. Executive Director, Mr. Alok Kumar, Chief Architect, Mr. J. K. Chandra, Advisor, DLF Home Developers Limited, Mr. R S Kachru, Director, DLF India Limited and Mr. Aakash Ohri, Vice President, DLF Golf Resorts Limited, subsidiary companies, be and are hereby jointly and/or severally authorized on behalf of the Company to sign, execute and issue various work orders / contracts related to appointment of consultants for various projects of the Company at Phase-V, Gurgaon

RESOLVED FURTHER THAT the above signatories be and are hereby jointly and/or severally authorized on behalf of the company to sign, execute and submit/present, various application(s), agreement(s), MOU's, affidavit(s), drawings, building plans, document(s), writing(s), letter(s), undertaking(s), declaration(s), certificate(s), bond(s), deed(s) (including making and accepting any amendments/ modifications thereto) with Central and State Government Authorities including Ministry of Environment & Forest (MOEF), State Environment Impact Appraisal Authority (SEIAA), Haryana, Haryana State Pollution Control Board (HSPCB), Central Ground Water Board (CGWB), Offices of Senior Town Planner (STP), and Directorate of Town & Country Planning (DTCP), Airport Authority of India (AAI) etc., to provide information, reports and to represent the Company to obtain License, NOC(s), clearance(s), clarification(s), sanction(s), approval(s) from the concerned authority(ies) in connection with the projects Situated at Phase-V, Gurgaon.

RESOLVED FURTHER THAT the Common Seal of the Company may be affixed, if required, on any of such documents as per the provisions contained in the Articles of Association of the Company.

RESOLVED FURTHER THAT the aforesaid powers entrusted to the above executive shall be valid, effective and exercisable by him, so long as they are in the employment of the Company or its associate/subsidiary companies unless revoked earlier by the Board or this Committee.

RESOLVED FURTHER THAT all acts, deeds and things done and documents executed aforesaid shall be deemed to be valid and enforceable only if the same are consistent with this Resolution and that the Board or this Committee shall not be responsible for any illegal and invalid acts and any other act beyond the scope of the aforesaid powers executed by the above executive(s) and shall not bind the Company against any third parties or before any authorities in any manner and that the Board or this Committee shall not be answerable in that behalf.

RESOLVED FURTHER THAT a certified Copy of this Resolution be furnished to any one concerned or interested in the matter under the signatures of any Director or the Company Secretary."

**CERTIFIED TRUE COPY
For DLF LIMITED**


COMPANY SECRETARY

ANNEXURE VII

Site Photographs of Aralias





Site Photographs of Blaire





Site Photographs of Club V



ANNEXURE VIII



HARYANA STATE POLLUTION CONTROL BOARD

Gurgaon North Vikas Sadan, 1st Floor, Near DC Court, Gurgaon Ph.0124-2332775 Email:-
hspcbrogrn@gmail.com
E-mail: hspcb@hry.nic.in



No. HSPCB/Consent/ : 329962321GUNOCTO7773342

Dated:12/07/2021

To.

M/s :The Aralias Group Housing (Blocks 1 to 11 and Club)
Zone4 DLF City Phase V Sector42 Gurgaon

Subject: Grant of consent to operate to M/s The Aralias Group Housing (Blocks 1 to 11 and Club).

Please refer to your application no. 7773342 received on dated 2021-06-28 in regional office Gurgaon North. With reference to your above application for consent to operate, M/s The Aralias Group Housing (Blocks 1 to 11 and Club) is here by granted consent as per following specification/Terms and conditions.

Consent Under	BOTH
Period of consent	01/10/2021 - 30/09/2024
Industry Type	Building and Construction projects having waste water generation more than 100 KLD in respective of their built-up area
Category	RED
Investment(In Lakh)	37237.0
Total Land Area(Sq. meter)	50461.55
Total Builtup Area(Sq. meter)	167436.1
Quantity of effluent	
1. Trade	0.0 KL/Day
2. Domestic	170.2 KL/Day
Number of outlets	1.0
Mode of discharge	
1. Domestic	Reuse/Recycle
2. Trade	0
Domestic Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
4. O&G	10 mg/l
Trade Effluent Parameters	
1. NA	
Number of stacks	6
Height of stack	

1. Stack1(DG set 1010 kVA)	7.82 Meter (Above roof level)
2. Stack2(DG set 1010 kVA)	7.82 Meter (Above roof level)
3. Stack3(DG set 1010 kVA)	7.82 Meter (Above roof level)
4. Stack4(DG set 1010 kVA)	7.82 Meter (Above roof level)
5. Stack5(DG set 500 kVA)	7.82 Meter (Above roof level)
6. Stack 6(DG set 500 kVA)	7.82 Meter (Above roof level)
Emission parameters	
1. NA	
Product Details	
1. Group Housing Project	Metric Tonnes/day
Capacity of boiler	
1. NA	Ton/hr
Type of Furnace	
1. NA	
Type of Fuel	
1. Diesel	3.07 KL/day
Raw Material Details	
NA	Metric Tonnes/Day

*Regional Officer, Gurgaon North
Haryana State Pollution Control Board.*

Terms and conditions

1. The applicants shall maintain good house keeping both within factory and in the premises. All hose pipelines valves, storage tanks etc. shall be leak proof. In plant allowable pollutants levels, if specified by State Board should be met strictly.
2. The applicant/company shall comply with and carry out directive/orders issued by the Board in this consent order at all subsequent times without negligence of his /its part. The applicant/company shall be liable for such legal action against him as per provision of the law/act in case of violation of any order/directives. Issued at any time and or non compliance of the terms and conditions of his consent order.
3. The applicant shall make an application for grant of consent at least 90 days before the date of expiry of this consent.
4. Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.
5. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above required variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard vary all or such condition and there upon the applicant shall be bound to comply with the conditions so varied.

6. The industry shall provide adequate arrangement for fighting the accidental leakages, discharge of any pollutants gas/liquids from the vessels, mechanical equipment etc. which are likely to cause environment pollution.
7. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
8. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.
9. The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristics should exceed these limits for discharge.
10. The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent. In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material, quantity, quality of the effluent, mode of discharge, treatment facilities etc.
11. The officer/official of the Board shall reserve the right to access for the inspection of the industry in connection with the various process and the treatment facilities. The consent to operate is subject to review by the Board at any time.
12. Permissible limits for any pollutants mentioned in the consent to operate order should not exceed the concentration permitted in the effluent by the Board.
13. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.
14. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.
15. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.
16. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

Specific Conditions :

1. Unit will run and maintain it's STP/ETP/APCM regularly and properly, will provide separate energy meter on their STP/ETP/APCM and maintain the Log Book for energy consumption of STP/ETP/APCM and chemicals used daily for the STP/ETP.
2. That the unit shall keep all the parameters within the prescribed limits and shall comply with all the Norms and Rules as prescribed in the Act
3. That the unit will adopt cleaner technology thereby reducing pollution load.
4. That the unit will provide inter locking arrangement of DG set with STP/ETP/APCM and shall have separate D.G. set to ensure regular and effective running of pollution control devices.
5. That the unit will not discharge any untreated effluent inside and outside its premises.
6. Unit will provide separate flow meter at Inlet/ Outlet of STP/ETP for which separate log book will be maintained if required.
7. That the unit will not add any air polluting process/ machinery and also not to add any process which increases the water pollution load.
8. That the unit will comply with all the provisions of Hazardous Waste Rules and submit return under HWM Rules on yearly basis.
9. That the CTO so granted shall become invalid in case of violation of any of the above / any law of the land.
10. Unit will apply for consent to operate for further period 90 days before expiry of this consent otherwise penalty

will be imposed as per policy. 11. Unit will submit compliance report of general & specific conditions mentioned in CTO alongwith fresh analysis report within 03 months. 12. Unit will install Emission control measures on DG set of capacity more than 500 KVA having minimum specified PM capturing efficiency of atleast 70% approved by CPCB recognized labs or shift to gas based generator in compliance of HSPCB office order no. 4230-44 dated 25.06.2020. 13. Unit will deposit any balance CTE/CTO fee, if found at any stage and time.

*Regional Officer, Gurgaon North
Haryana State Pollution Control Board.*





HARYANA STATE POLLUTION CONTROL BOARD

Gurgaon North Vikas Sadan, 1st Floor, Near DC Court, Gurgaon Ph.0124-2332775 Email:-
hspcbrogrn@gmail.com
E-mail: hspcb@hry.nic.in



No. HSPCB/Consent/ : 329962322GUNOCTO25618248

Dated:18/07/2022

To.

M/s :Belaire Group Housing DLF City Phase V
Zone-8, DLF City Phase-V, Sector-54, Gurgaon

Subject: Grant of consent to operate to M/s Belaire Group Housing DLF City Phase V.

Please refer to your application no. 25618248 received on dated 2022-06-22 in regional office Gurgaon North. With reference to your above application for consent to operate, M/s Belaire Group Housing DLF City Phase V is here by granted consent as per following specification/Terms and conditions.

Consent Under	BOTH
Period of consent	01/10/2022 - 30/09/2023
Industry Type	Building and Construction projects having waste water generation more than 100 KLD in respective of their built-up area
Category	RED
Investment(In Lakh)	49395.0
Total Land Area(Sq. meter)	29461.07
Total Builtup Area(Sq. meter)	204782.8
Quantity of effluent	
1. Trade	0.0 KL/Day
2. Domestic	362.8 KL/Day
Number of outlets	1.0
Mode of discharge	
1. Domestic	RECYCLE/REUSE
2. Trade	NA
Domestic Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
4. O & G	10 mg/l
Trade Effluent Parameters	
1. NA	
Number of stacks	2
Height of stack	

1. 3 No. of DG set of capacity 1500 KVA each	15.32 m
2. DG set of capacity 1010	15.32 m
Emission parameters	
1. NA	0
Product Details	
1. NA	0 Metric Tonnes/day
Capacity of boiler	
1. NA	0 Ton/hr
Type of Furnace	
1. NA	0 NA
Type of Fuel	
1. Diesel	3.385 KL/day
Raw Material Details	
NA	0 Metric Tonnes/Day

Regional Officer, Gurgaon North

HARYANA STATE *Haryana State Pollution Control Board.*
Terms and conditions

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2. The applicant/company shall comply with and carry out directive/orders issued by the Board in this consent order at all subsequent times without negligence of his /its part. The applicant/company shall be liable for such legal action against him as per provision of the law/act in case of violation of any order/directives. Issued at any time and or non compliance of the terms and conditions of his consent order.
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7. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
8. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.

9. The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristics should exceed these limits for discharge.
10. The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent. In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material, quantity, quality of the effluent, mode of discharge, treatment facilities etc.
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13. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.
14. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.
15. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.
16. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

Specific Conditions :

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9. That the CTO so granted shall become invalid in case of violation of any of the above / any law of the land.
10. Unit will apply for consent to operate for further period 90 days before expiry of this consent otherwise penalty will be imposed as per policy.
11. Unit will submit compliance report of general & specific conditions mentioned in CTO alongwith fresh analysis report within 03 months.
12. Unit will install Emission control measures on DG set of capacity more than 500 KVA having minimum specified PM capturing efficiency of atleast 70% approved by CPCB recognized labs or shift to gas based generator in compliance of HSPCB office order no. 4230-44 dated 25.06.2020.
13. Unit will deposit any balance CTE/CTO fee, if found at any stage and time.

*Regional Officer, Gurgaon North
Haryana State Pollution Control Board.*



ANNEXURE IX



Environment Policy

25th January 2023

DLF recognizes the importance of protecting the environment through adopting appropriate mitigating and control measures, during Construction, Operations and Maintenance of its projects/ assets.

We will ensure adequate controls and processes to safeguard the environment in accordance with the relevant regulations/ standards/ guidelines.

We are committed to:

- Compliance of environmental legislation and regulation stipulated by statutory bodies from time to time.
- Maintain transparency in matters of Environmental compliance.
- Creating the required awareness on Environmental requirements and statutory norms with the aim of increasing environmental stewardship amongst employees, public, and other stake holders.
- Conducting our activities in an environmentally responsible manner that fosters sustainability.
- Minimizing the negative impact of our operations on the environment by improving the efficiency of natural resources usage, waste management processes and encouraging the integration of renewable energy resources wherever possible.
- Deploying/ developing the right resources and competence to understand and implement environmental measures as per best management practices applicable to the industry.
- Working for continual improvement of our environmental performance through focused objectives, performance targets and certifications as required.
- Reviewing this policy at regular intervals.

A handwritten signature in black ink, appearing to read 'P. Ramakrishnan', written over a horizontal line.

P. Ramakrishnan

Chief Technical Officer, DLF LTD



पर्यावरण नीति

25 जनवरी 2023

डीएलएफ अपनी परियोजनाओं/ संपत्तियों के निर्माण, संचालन और रखरखाव के दौरान उपयुक्त न्यूनीकरण और नियंत्रण उपायों को अपनाकर पर्यावरण की रक्षा करने के महत्व को पहचानता है। हम संबंधित विनियमों/ मानकों/ दिशानिर्देशों के अनुसार पर्यावरण की सुरक्षा के लिए पर्याप्त नियंत्रण और प्रक्रियाएं सुनिश्चित करेंगे।

हम इसके लिए प्रतिबद्ध हैं:

- समय-समय पर वैधानिक निकायों द्वारा निर्धारित पर्यावरणीय कानून और विनियमन का अनुपालन।
- पर्यावरण अनुपालन के मामलों में पारदर्शिता बनाए रखना।
- कर्मचारियों, जनता और अन्य हितधारकों के बीच पर्यावरणीय नेतृत्व बढ़ाने के उद्देश्य से पर्यावरणीय आवश्यकताओं और वैधानिक मानदंडों पर आवश्यक जागरूकता करना।
- हमारी गतिविधियों को पर्यावरणीय रूप से जिम्मेदार तरीके से संचालित करना जो निरंतरता को बढ़ावा देता है।
- प्राकृतिक संसाधनों, अपशिष्ट प्रबंधन प्रक्रियाओं के उपयोग की दक्षता में सुधार करके और जहां भी संभव हो नवीकरणीय ऊर्जा संसाधनों के एकीकरण को प्रोत्साहित करके पर्यावरण पर हमारे संचालन के नकारात्मक प्रभाव को कम करना।
- उद्योग पर लागू सर्वोत्तम प्रबंधन प्रथाओं के अनुसार पर्यावरणीय उपायों को समझने और कार्यान्वित करने के लिए सही संसाधनों और क्षमता को तैनात/ विकसित करना।
- केंद्रित उद्देश्यों, प्रदर्शन लक्ष्यों और आवश्यकतानुसार प्रमाणपत्रों के माध्यम से हमारे पर्यावरणीय प्रदर्शन के निरंतर सुधार के लिए काम करना।
- नियमित अंतराल पर इस नीति की समीक्षा करना।

पी. रामकृष्णन

चीफ टेक्निकल ऑफिसर, डीएलएफ लिमिटेड