

S.A. GLOBAL PRIVATE LIMITED

Regd. Office: Group Housing Site, Sector 77, SAS Nagar, Mohali - 140308, Punjab, India
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Website: www.homelandregalia.com, **SMS:** HOMELAND to 56767

Date: 25.09.2023

To
The Environmental Engineer,
Punjab Pollution Control Board,
Regional Office,
Mohali.

Subject: Submission of Environment Audit Report (Form V) for the financial year 2022-23 for the project namely "Homeland Regalia" located at opposite Gurudwara Mata Sundar Kaur, Sector 77, Distt. SAS Nagar (Mohali), Punjab.

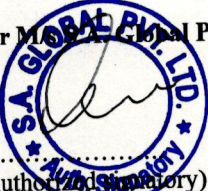
Respected Sir,

We are hereby submitting the Environment Audit Report (Form V) for the financial year 2022-23 for the Group Housing Project namely "Homeland Regalia" located at opposite Gurudwara Mata Sundar Kaur, Sector 77, Distt. SAS Nagar (Mohali), Punjab.

All relevant details /documents are enclosed with the report for your kind consideration.

Thanking you
Sincerely

For M. Global Pvt. Ltd.


.....
(Authorized Signatory)
Encl: As above

HOMELAND REGALIA



LIMITED EDITION RESIDENCES

SECTOR 77, MOHALI

ENVIRONMENTAL STATEMENT

(FOR THE YEAR 2022-23)

FOR

“Homeland Regalia”

by

M/s. S.A. Global Pvt. Ltd.

Opposite Gurudwara Mata Sundar Kaur, Sector 77, Distt.

SAS Nagar (Mohali), Punjab

Submitted by



Eco Paryavaran Laboratories and Consultants Pvt. Ltd.

E-207, Industrial Area, Phase-VIII B (Sector-74), S.A.S Nagar (Mohali) Punjab.

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Project: Group Housing Project “Homeland Regalia”

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

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restoring eco balance...



Project: Group Housing Project “Homeland Regalia”
Location: Sector 77, Mohali, Punjab
Client: M/s S.A. Global Pvt. Ltd.

ENVIRONMENTAL AUDIT REPORT (FY 2022-23)

1. INTRODUCTION

Environment Audit is defined as “A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management systems and equipments are performing with the aim of:

- (i) facilitating management control of environmental practices and
- (ii) (ii) compliance with company policies, including company requirements”.

In India, the requirements for environmental auditing are formalized in Rule -14 of the ENVIRONMENT (PROTECTION) RULES, 1986 as below since 1992

Submission of Environmental Statement

Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) or under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) or both or authorization under the Hazardous Wastes (Management and Handling) Rules, 1989 issued under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an environmental audit report for the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or before the thirtieth day of September every year, beginning 1993.

Philosophy of Environmental Audit

Environmental audit is a general term that reflects various types of evaluations intended to identify environmental compliance and management system implementation gaps, along with related corrective actions. Environmental audit is a management tool comprising a systematic, documented, periodic and objective evaluation of how well the management systems are performing with the aim of:

- i. Waste prevention and reduction;
- ii. Assessing compliance with regulatory requirements;



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- iii. Facilitating control of environmental practices by company's management
- iv. Placing environmental information in the public domain.

It is important to find out whether the project is complying with environmental standards and other regulatory requirements. It is also very essential to periodically monitor this aspect, determine the gaps and workout action plans for implementation within a reasonable time frame keeping in view the financial and other considerations of a company. In cases of gaps for compliance with the regulatory requirements, the regulatory bodies could be apprised of these action plans and time is obtained for implementation. Thus, we can overcome the regulatory risk by taking effective steps for pollution control.

Many times, the top management of a company or an industry may not be aware of the factual situation of their project from environmental angle. Such unknown facts form hidden liabilities more often expose an industry to regulatory risks. The management should be able to periodically review those environmental practices of the company to formulate / modify the company’s environmental policy accordingly.

It is also imperative that the Management of a company should have a clear picture of ‘attitudes’ and ‘technical capabilities’ of their organizational set-up for protecting environment, pollution control status, and their bounden social obligation related to environment so as to decide on the future mode of actions. Public are to be made aware of the environmental information of the company, especially to those who are stakeholders, so as to build in confidence among them. Environmental auditing can be viewed as a ‘management tool’ internally, and ‘liaison’ externally with the public and regulatory bodies.

Objectives

The environmental audit helps in Pollution control, improving production, safety & health and conservation of natural resources. Hence, overall objective can be stated as achieving of sustainable development. The objectives of environmental audit are:



Project: Group Housing Project “Homeland Regalia”

Location: Sector 77, Mohali, Punjab

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- To identify the areas of water usage and wastewater generation and determine the Characteristics of Wastewater.
- To determine the emissions, their Sources, Quantities and Characteristics.
- To determine the Solid wastes and Hazardous wastes generation, their Sources, quantities and Characteristics.
- To identify the possibilities of waste minimization, recovery and recycling of wastes.
- To determine the performance of the existing waste treatment / control systems so as to modify or install additional or alternative control equipment accordingly.
- To determine the impact on the surrounding environment (groundwater, stream, residential area, agricultural area, sensitive zone etc.) due to the disposal of wastewater, emissions and solid wastes from the project and accordingly identify suitable preventive measures, if necessary.
- To verify compliance with the standards and conditions prescribed by the regulatory bodies under the Water Act 1974, the Air Act, 1981 and the Environmental (Protection) Act, 1986.

Hence, in order to comply with the statutory requirement as well as to maintain corporate image in the region, recognizing the importance of comprehensive structural mechanism to ensure that the project activities do not cause any effects on environment, the enclosed report details about the environmental statement for the Group Housing Project for Financial Year 2022-23.

Project: Group Housing Project “Homeland Regalia”

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

2. COMPANY PROFILE

M/s. S.A. Global Private Limited is a Private incorporated on 6th October, 2016. It is classified as Non-govt. company and is registered at Registrar of Companies, Chandigarh. S.A. Global Pvt. Ltd. Corporate Identification Number is (CIN) U51225PB2016PTC052956. Its registered address is Group Housing Site, Sector 77, Mohali, Punjab. Current Directors of the company is given as below:

- Mr. Abhey Jindal
- Mrs. Suvarna Jindal

3. INTRODUCTION OF THE PROJECT

Group Housing Project namely “Homeland Regalia” at Sector 77, Distt. SAS Nagar (Mohali), Punjab on an area of 4.58 acres which is to be developed by M/s S.A. Global Pvt. Ltd. The land has been allotted by GMADA. Land allotment letter from GMADA has been obtained vide Memo No. 5469 dated 29.01.2021. The project will comprise of Residential Towers, Commercial Shops and Club House. Environmental Clearance has been granted to the project in the name of “Homeland Residences” by MoEF&CC vide file no. 21-110/2020-IA-III dated 23.02.2021. The corner co-ordinates of project location are:

Corner	Latitude	Longitude
A	30°41'48.15"N	76°42'19.62"E
B	30°41'47.59"N	76°42'22.74"E
C	30°41'44.77"N	76°42'25.10"E
D	30°41'42.51"N	76°42'21.46"E
E	30°41'42.51"N	76°42'21.46"E
F	30°41'46.90"N	76°42'17.78"E

Google earth image showing the project location is given below in **Figure 1:**



Project: Group Housing Project "Homeland Regalia"
Location: Sector 77, Mohali, Punjab
Client: M/s S.A. Global Pvt. Ltd.



Figure 1. Google Earth Image showing Location of Project

SITE SUROUNDINGS & CONNECTIVITY

The project site is well connected to Airport Road. Site surroundings features along with connectivity details are given in **Table 1**.

Table 1: Site Surroundings and Connectivity Details

Sl. No.	Description	Name	Distance and Direction
1.	Nearest Road	<ul style="list-style-type: none"> Airport Road SH-12 A 	<ul style="list-style-type: none"> In front of project site (NE) Approx. 0.4 km (S)
2.	Nearest Railway Station	<ul style="list-style-type: none"> SAS Nagar Railway Station Chandigarh Railway Station 	<ul style="list-style-type: none"> Approx. 4.5 km (SE) Approx. 10.8 km (E)
3.	Nearest Airport	<ul style="list-style-type: none"> Shaheed Bhagat Singh International Airport 	<ul style="list-style-type: none"> Approx. 6 km (SE)

Project: Group Housing Project "Homeland Regalia"

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

4.	Nearest Water body	<ul style="list-style-type: none">• Patiala Ki Rao• Attawa Choe• Choi Nala	<ul style="list-style-type: none">• Approx. 2.7 km (NW)• Approx. 2.6 km (SE)• Approx. 5 km (SE)
5.	Nearest College	<ul style="list-style-type: none">• Rattan College of Nursing, Mohali• National Agri-Food Biotechnology Institute, Mohali• Indian School of Business, Mohali• IISER, Mohali	<ul style="list-style-type: none">• Approx. 1.2 km (SE)• Approx. 3.2 km (SE)• Approx. 3.4 km, (SE)• Approx. 3.5 km (SE)
6.	Nearest School	<ul style="list-style-type: none">• Golden Bells Public School, Sector 77, Mohali.• Government Girls Senior Secondary School, Village Sohana• Vivek High School, Sector-70, Mohali• Saupin's School, Sector-70, Mohali	<ul style="list-style-type: none">• Approx. 0.2 km (SW)• Approx. 0.5 km (SW)• Approx. 0.5 km (NE)• Approx. 0.6 km (SE)
7.	Nearest Hospital	<ul style="list-style-type: none">• Sohana Hospital, Sector 77, Mohali• KV Hospital Multispecialty Centre, Sector 71, Mohali• Amar Hospital, Sector-70, Mohali• IVY Hospital, Sector 71, Mohali• Shivalik Hospital, Sector 69, Mohali• Grecian hospital Phase 9 Mohali	<ul style="list-style-type: none">• Approx. 0.5 km (SW)• Approx. 0.8 km (NE)• Approx. 0.9 km (E)• Approx. 1 km (NE)• Approx. 1.3 km (SE)• Approx. 1.6 km (SE)
8.	Nearest Place of worship	<ul style="list-style-type: none">• Gurudwara Mata Sunder Kaur Ji, Sector-70, Mohali	<ul style="list-style-type: none">• Approx. 0.09 km (SE)



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		<ul style="list-style-type: none">• Gurudwara Singh Shaheedan, Sector 77, Sohana, Mohali• Satya Narayan Mandir, Mattaur	<ul style="list-style-type: none">• Approx. 0.7 km (SE)• Approx. 0.9 km (NE)
9.	Nearest Bird/ Wildlife Sanctuary	<ul style="list-style-type: none">• City Bird Sanctuary• Sukhna Wildlife Sanctuary	<ul style="list-style-type: none">• Approx. 7.7 km (NE)• Approx. 13.5 km (NE)



Project: Group Housing Project "Homeland Regalia"

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

FORM –V

ENVIRONMENTAL STATEMENT

(FOR THE FINANCIAL YEAR ENDING 2022-23)

(SEE RULE 14)

PART-A

i.	Name and address of the Owner/occupier of the industry, operation or process	Mr. Gurbhagwant Singh (Authorized Signatory) M/s. S.A. Global Pvt. Ltd. Sector-77, S.A.S Nagar (Mohali), Punjab.
ii.	Industry Category Primary (SIC code) Secondary (SIC Code)	Group Housing Project
iii.	Production capacity-units-	Plot Area = 4.58 acres
iv.	Year of establishment:	The construction of project was initiated in March, 2022.
v.	Date of last environmental statement submitted	September, 2022 (for the FY 2021-22)



Project: Group Housing Project "Homeland Regalia"

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

PART-B

WATER AND RAW MATERIAL CONSUMPTION

(i) Water Consumption m³/day (KLD)

Project is in construction phase. During construction phase, there is requirement of domestic water for workers/laborers as well as construction purpose which is being supplied by private water tankers. The wastewater generated is being discharged to septic tank through portable toilets. The daily breakup of the water consumption during FY 2022-23 for the project is given below:

Sr. No.	Name of the Product	Process Water Consumption per unit of the products	
		During the Financial Year (2021-22)	During the Financial Year (2022-23)
		(1)	(2)
1.	Average Water Consumption for Domestic Purpose	1.35 KLD	27 KLD
2.	Average Water Consumption for Construction Purpose	-	11.39 KLD

(ii) Raw Material Consumption (FY 2022-23)

Sr. No.	Name	Quantity (in CFT)
		During the Financial Year (2022-23)
1.	Sand	2,97,000
2.	Aggregates (10 mm)	3,15,000
3.	Aggregates (20 mm)	2,52,000



Project: Group Housing Project "Homeland Regalia"

Location: Sector 77, Mohali, Punjab

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(iii) Products

The project will comprise of overall 6 Residential Towers having 279 residential flats, 23 Commercial Shops and 2 Club House.

Sr. No.	Name	During the Financial Year (2022-23)
		Products (Units Constructed)
1.	Residential Flats	30 no.

(iv) Fuel Consumption

Presently, 3 DG sets (1 no. 125 kVA & 2 no. 82.5 kVA each) have been provided at site for construction phase. Quantity of fuel consumption for DG sets during FY 2022-23 is given as below:

Sr. No.	Type of Fuel	During the Financial Year (2022-23)	
		Consumption (Lts/Day)	Consumption (Lts/Annum)
1.	HSD	30	10,950

Project: Group Housing Project "Homeland Regalia"

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

PART – C

POLLUTION DISCHARGE TO ENVIRONMENT/UNIT OF OUTPUT

(Parameter as specified in the consent issued)

(a) Ambient Air Analysis

Date of Sample Collection		23.04.2022	19.11.2022	Units	Limit
Location of Sampling Point		At project site	At project site		
SI. No.	Parameters	Result	Result		
1.	PM ₁₀	93	128	µg/ m ³	100
2.	PM _{2.5}	52	75	µg/ m ³	60
3.	Sulphur Dioxide	14	11	µg/ m ³	80
4.	Nitrogen Dioxide	28	28	µg/ m ³	80
5.	Ammonia	15	29	µg/ m ³	400
6.	Ozone	35	19	µg/ m ³	180
7.	Carbon Monoxide	0.74	0.68	mg/ m ³	04

Test reports of Ambient Air analysis is attached along as **Annexure-1**.

(b) Ambient Noise Analysis

SI. No	Test	Location	Unit	Results (23.04.2022)	Results (19.11.2022)
1	Ambient Day Time Noise Levels	At project site	dB(A)	53.8	58.1

Test reports are attached along as **Annexure-2**.



Project: Group Housing Project “Homeland Regalia”

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

(b) Soil Analysis

Date of Sample Collection		23.04.2022	19.11.2022	Units
Location of Sampling Point		At project site	At project site	
Sl. No.	Parameters	Result	Result	
1.	pH	8.05	8.07	--
2.	Conductivity	0.289	0.276	mmhos/cm
3.	Moisture Content	4.2	8.1	%
4.	Organic Matter	1.70	1.51	%
5.	Texture	Sandy Clay Loam	Sandy Clay Loam	--
6.	Bulk Density	1.39	1.45	gm/cc

Test reports are attached along as **Annexure-3**.

In addition, as the project is in construction phase, thus, STP has not been installed yet.



Project: Group Housing Project "Homeland Regalia"

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

PART- D

(As specified under Hazardous and other Wastes (Management & Transboundary Movement Rules, 2016)

The project is a Group Housing project and only spent oil from DG sets is the source of Hazardous Waste generation. The same will be disposed off as per Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016.

Sl. No	Hazardous wastes	Total Quantity (Lts/Annum) (During the FY 2021-22)	Total Quantity (Lts/Annum) (During the FY 2022-23)	Disposal
1.	Used Oil	Nil	80	To authorized vendors.

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Location: Sector 77, Mohali, Punjab
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PART – E

SOLID WASTES

Solid waste would be generated both during construction as well as operational phase. Construction Phase.

During Construction Phase

The solid waste generated during construction phase comprises of excavated materials, empty cement bags, bricks, concrete, etc.

During Operation Phase

About 1217 kg/day (@ 0.40 kg/capita/day for Residential population and @ 0.2 kg/capita/day for Floating population) of solid waste generated will be generated after full occupancy. Also, STP sludge will be generated once the STP will be installed & in operational stage. In addition, hazardous waste in the form of used oil from DG sets will also be generated.



Project: Group Housing Project "Homeland Regalia"

Location: Sector 77, Mohali, Punjab

Client: M/s S.A. Global Pvt. Ltd.

PART – F

Please specify the characterization in terms of composition and quantum of Hazardous as well as solids waste and indicates disposal practice for both these category of waste.

☐ Presently, waste is being generated from construction activities comprises of excavated materials, empty cement bags, bricks, concrete, etc.

- Excavated material is being stacked and reuse in later stages of construction.
- Excavated top soil has been stored and will be used for landscaping purposes.
- Remaining soil is being used for refilling, road work, rising of site, etc.

*Quantum of Waste generated during the Financial Year 2022-23		Disposal
Construction waste	4,32,000 kg	Utilized within project & recyclable waste to recyclers.
Solid Waste	7300 kg	To nearest govt. Dumping yard.
STP Sludge	Nil (STP is not yet installed)	-
Used Oil (from DG sets)	80 ltr	To authorized vendors

**Project is in construction phase.*

METHOD OF DISPOSAL DURING OPERATIONAL PHASE

- The solid waste will be segregated into biodegradable and non-biodegradable components and handled as per SWM Rules, 2016.
- Biodegradable waste will be composted by use of 1 composter of 500 kg.
- Non-biodegradable waste (recyclable waste) will be disposed off through authorized recycler vendors.
- Inert waste will be dumped to authorized dumping site.
- STP Sludge will be dried and used as manure for green area development within the project.
- Used oil from DG sets will be periodically sold to authorized vendors as per The Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.
- E-Waste generated will be handled & disposed off as per E- Waste Management Rules, 2016 and its amendments.



Project: Group Housing Project “Homeland Regalia”
Location: Sector 77, Mohali, Punjab
Client: M/s S.A. Global Pvt. Ltd.

PART –G

Impact of the pollution abatement taken on conservation of natural resources and on the cost of production.

During Construction Phase

- Mobile toilets have been provided within the project premises for collection of wastewater from workers.
- Barricading has been done around the site.
- Raw materials have been covered in all respects so that, it does not disperse in the air in any form.

Photographs showing some measures being taken at site are given below:



Project: Group Housing Project "Homeland Regalia"
Location: Sector 77, Mohali, Punjab
Client: M/s S.A. Global Pvt. Ltd.



Eco Paryavaran Laboratories & Consultants Pvt. Ltd., Mohali

PART – H

Additional measure/investment proposal for environmental protection including abatement of pollution, prevention of pollution

Mitigation Measures for Air Environment during Construction and Operation Phase:

- ❖ Site barricading has been provided around the area of construction site.
- ❖ All construction materials and debris is being carried in trucks or other vehicles which is fully covered and protected to ensure that the construction debris or material does not get dispersed in the air or atmosphere, in any form whatsoever.
- ❖ All workers at the construction site and involved in loading, unloading and carriage of construction material and construction debris has been provided with masks to prevent inhalation of dust particles.
- ❖ Medical help and treatment is being provided to the workers involved in the construction of building and carrying construction material and debris relating to dust emission.
- ❖ There is provision of sprinklers so as to suppress the fugitive emission of dust. Also, nuisance dust generated due to wind at construction site is being taken care of by immediate removal and recycling of the debris and unutilized construction material and earth.
- ❖ The vehicles employed is being checked for vehicular emissions and PUC certificates. The mitigation measures include regular maintenance of machinery and provision of personnel protective equipment's to workers where needed.
- ❖ The standby generator has been installed with enclosure as per guidelines of Central Pollution Control Board and after taking consent from State Pollution Control Board under Air (Prevention and Control of Pollution) Act, 1981.

Mitigation Measures for Water Environment during Construction and Operation Phase:

- ❖ Construction related solid waste such as malba, loose soil etc. is being removed immediately thus, controlling run-off during development/ construction phase.
- ❖ There is no discharge as such from the water used for construction, as same is consumed in the process. There shall thus be no impact on ground or surface water resources.

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Location: Sector 77, Mohali, Punjab

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- ❖ The flow from the site during monsoons will not directly enter any surface water body.
- ❖ The wastewater generated from the project will be treated in a proposed Sewage Treatment Plant (STP) to be installed within the project premises. Treated wastewater shall be recycled for flushing and horticulture purpose and excess will be discharged to GMADA sewer. NOC from GMADA for treated sewage disposal has already been obtained.



PART – I

Any other particulars for improving the quality of the environment

- ❖ Ambient air quality emissions, groundwater, ambient noise, DG stacks and STP outlet is being monitored regularly.
- ❖ DG set with adequate stack height and low Sulphur diesel will be provided.
- ❖ The topsoil excavated during construction activities is being stored as site and same will be used for development of green area within the project premises.
- ❖ Dual plumbing system is being provided for reuse of treated wastewater for flushing as well as green area and different color coding will be done on the pipelines.
- ❖ Rain water recharging pits will be provided to recharge the groundwater.
- ❖ No ground water is being used for construction activities and only treated water is being used.
- ❖ ECBC guidelines is being followed in the project.
- ❖ LED lightning will be provided in the project.
- ❖ Solar energy will be utilized and electricity generation will be achieved as per bye laws.
- ❖ Adequate green area will be provided within the project premises.
- ❖ First aid facility has been provided at the project site during construction phase and the same will be provided during operational phase also.
- ❖ Biodegradable waste will be composted within premises by use of Composter.

TEST REPORT



ULR No. : TC747722000002521F		Test Report No. : EL250422NA001	
Type of Sample : Ambient Air Quality		Date of Reporting : 28/04/2022	
Customer	Residential Project "Homeland Regalia" By M/s S.A. Global Pvt Ltd. Opp. Gurdwara Mata Sunder Kaur, Sector-77, SAS Nagar, Mohali (Punjab)	Work Order No. & Date	EL/HR/TEL/3261 Dt.: 14/04/2022
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	23/04/2022	Date of Receipt of Sample	25/04/2022
Sampling Location	At Project Site Near Office	Period of Analysis	25/04/2022 To 28/04/2022
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear sky
Testing Location	On Site & Permanent Facility		

RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Respirable Suspended Particulate Matter (as PM10)	µg/m ³	93	100	IS: 5182 (Part-23)
2	Particulate Matter (as PM2.5)	µg/m ³	52	60	Lab SOP: EL/SOP/AAQ/01, Issue No. 03, Jan 01
3	Sulphur Dioxide (as SO ₂)	µg/m ³	14	80	IS: 5182 (Part-2)
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	28	80	IS: 5182 (Part-6)
5	Ammonia (as NH ₃)	µg/m ³	15	400	Lab SOP: EL/SOP/AAQ/02, Issue No. -03, Jan 01
6	Ozone (as O ₃)	µg/m ³	35	180	IS: 5182 (Part-9)
7	Carbon Monoxide (as CO),	mg/m ³	0.74	04	IS: 5182 (Part-10), NDIR Method

Remarks : NA

OTHER INFORMATION

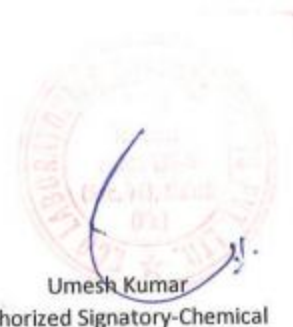
Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

End of Report



Umesh Kumar
Authorized Signatory-Chemical

TEST REPORT



ULR No. : TC747722000009312F		Test Report No. : EL211122NA007	
Type of Sample : Ambient Air Quality		Date of Reporting : 23/11/2022	
Customer	Group Housing Project "Homeland Regalia" By M/s S.A.Global Pvt.Ltd. Sector-77,SAS Nagar Mohali, Punjab	Work Order No. & Date	EMS/E/4617 DT:10.11.2022
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	19/11/2022	Date of Receipt of Sample	21/11/2022
Sampling Location	At Project Site	Period of Analysis	21/11/2022 To 23/11/2022
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear sky
Testing Location	On Site & Permanent Facility		

RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Respirable Suspended Particulate Matter (as PM10)	µg/m ³	128	100	IS: 5182 (Part-23)
2	Particulate Matter (as PM2.5)	µg/m ³	75	60	Lab SOP: EL/SOP/AAQ/01, Issue No. 03, Jan 01
3	Sulphur Dioxide (as SO ₂)	µg/m ³	11	80	IS: 5182 (Part-2)
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	28	80	IS: 5182 (Part-6)
5	Ammonia (as NH ₃)	µg/m ³	29	400	Lab SOP: EL/SOP/AAQ/02, Issue No. -03, Jan 01
6	Ozone (as O ₃)	µg/m ³	19	180	IS: 5182 (Part-9)
7	Carbon Monoxide (as CO)	mg/m ³	0.68	04	IS: 5182 (Part-10), NDIR Method

Remarks :

Air quality seems deteriorated due to prevailing paddy/crop residue burning activities associated to rice harvesting season in Punjab region.

OTHER INFORMATION

Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

End of Report



Umesh Kumar

Authorized Signatory-Chemical

TEST REPORT



ULR No. : TC747722000002588F		Test Report No. : EL250422NN001	
Type of Sample : Ambient Noise		Date of Reporting : 28/04/2022	
Customer	Residential Project "Homeland Regalia" By M/s S.A. Global Pvt Ltd. Opp. Gurdwara Mata Sunder Kaur, Sector-77, SAS Nagar, Mohali (Punjab)	Work Order No. & Date	EL/HR/TEL/3261 Dt.: 14/04/2022
		Customer reference No. (If any)	NA
Sampling Protocol	IS 9989-1989, RA 2008.	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	23/04/2022	Date of Receipt of Sample	25/04/2022
Sampling Location	At Project Site	Period of Analysis	25/04/2022 To 25/04/2022
Testing Protocol	IS 9989-1989, RA 2008.		
Testing Location	On Site & Permanent Facility		

RESULTS

I- Chemical Testing

1. Atmospheric Pollution (Ambient Noise Level)

S.No.	Test Parameters	Units	Results	Method
1	Ambient Day Time Noise Levels	dB(A)	53.8	LAB SOP: EL/SOP/AN/01, Issue No.-04, Nov 10

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

Day time shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Remarks : NA

OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report



Umesh Kumar
Authorized Signatory-Chemical

TEST REPORT



ULR No. : TC747722000009335F		Test Report No. : EL211122NN007	
Type of Sample : Ambient Noise		Date of Reporting : 23/11/2022	
Customer	Group Housing Project "Homeland Regalia" By M/s S.A.Global Pvt.Ltd. Sector-77,SAS Nagar Mohali, Punjab	Work Order No. & Date	EMS/E/4617 DT:10.11.2022
		Customer reference No. (If any)	NA
Sampling Protocol	IS 9989-1989, RA 2008.	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	19/11/2022	Date of Receipt of Sample	21/11/2022
Sampling Location	At Project Site	Period of Analysis	21/11/2022 To 21/11/2022
Testing Protocol	IS 9989-1989, RA 2008.		
Testing Location	On Site & Permanent Facility		

RESULTS

I- Chemical Testing

1. Atmospheric Pollution (Ambient Noise Level)

S.No.	Test Parameters	Units	Results	Method
1	Ambient Day Time Noise Levels	dB(A)	58.1	LAB SOP: EL/SOP/AN/01, Issue No.-04, Nov 10

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

Day time shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

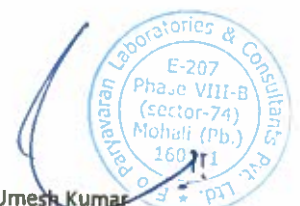
Remarks : NA

OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report



Umesh Kumar

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TEST REPORT



ULR No. : TC747722000002508F		Test Report No. : EL230422NS001	
Type of Sample : Soil		Date of Reporting : 28/04/2022	
Customer	Residential Project "Homeland Regalia" By M/s S.A. Global Pvt Ltd. Opp. Gurdwara Mata Sunder Kaur, Sector-77, SAS Nagar, Mohali (Punjab)	Work Order No. & Date	EL/HR/TEL/3261 Dt.: 14/04/2022
		Customer reference No. (If any)	NA
Sampling Protocol	USEPA/600/R-92/128	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	23/04/2022	Date of Receipt of Sample	23/04/2022
Sampling Location	From Project Site	Testing Location	Permanent Facility
Testing Protocol	IS Method	Period of Analysis	23/04/2022 To 28/04/2022
Sample Description	Brown coloured soil.		
Packing, Markings, Seal & Qty.	5 Kg Poly Bag Marked 'B/23/S3'		

RESULTS

I. Chemical Testing

1. Pollution & Environment (Soil)

S.No.	Test Parameter	Unit	Result	Test Method
1	pH	--	8.05	IS:2720 (Part-26) Cl-2,
2	Conductivity	mmhos/cm	0.289	IS:14767
3	Moisture Content	%	4.2	IS:2720 (Part-II) Sec-1
4	Organic Matter	%	1.70	IS: 2720 (Part XXII) Sec-1,
5	Texture	--	Sandy clay loam	IS:2720 (Part-4) Cl 2,4,
6	Bulk Density	gm/cc	1.39	IS: 2720 (Part-7)

Remarks : NA

OTHER INFORMATION


Abbreviation :

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Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

End of Report



Umesh Kumar
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TC-7477

TEST REPORT

ULR No. : TC747722000009291F		Test Report No. : EL191122NS007	
Type of Sample : Soil.		Date of Reporting : 23/11/2022	
Customer	Group Housing Project "Homeland Regalia" By M/s S.A.Global Pvt.Ltd. Sector-77,SAS Nagar Mohali, Punjab	Work Order No. & Date	EMS/E/4617 DT:10.11.2022
		Customer reference No. (If any)	NA
Sampling Protocol	USEPA/600/R-92/128	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	19/11/2022	Date of Receipt of Sample	19/11/2022
Sampling Location	At Project Site	Testing Location	Permanent Facility
Testing Protocol	IS Method	Period of Analysis	19/11/2022 To 23/11/2022
Sample Description	Brown coloured soil.		
Packing, Markings, Seal & Qty.	10 Kg Poly Bag Marked 'B/19/S2'		

RESULTS

I. Chemical Testing

1. Pollution & Environment (Soil)

S.No.	Test Parameter	Unit	Result	Test Method
1	pH	--	8.07	IS:2720 (Part-26) Cl-2,
2	Conductivity	mmhos/cm	0.276	IS:14767
3	Moisture Content	%	8.1	IS:2720 (Part-II) Sec-1
4	Organic Matter	%	1.51	IS: 2720 (Part XXII) Sec-1,
5	Texture	--	Sandy Clay Loam	IS:2720 (Part-4) Cl 2,4,
6	Bulk Density	gm/cc	1.45	IS: 2720 (Part-7)

Remarks : NA

OTHER INFORMATION

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End of Report



Umash Kumar

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