



GRC India

GRC INDIA TRAINING & ANALYTICAL LABORATORY

(A unit of Grass Roots Research & Creation India (P) Ltd.)

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OH&S) Certified
NABL Accredited Laboratory (A Constituent Board of QCI), TC 7501 (Chemical & Biological)
Recognized by Ministry of Environment, Forest & Climate Change (MoEF&CC, GOI), under the E (P) Act, 1986
Head Office: F-375, Sector-63, Noida, Gautam Budh Nagar, U.P. - 201301
Phone No.: 0120 - 4044630, 4044660; Fax: 0120 - 2406519, 0120 - 4044675
Website: <https://www.grc-india.com>; E-mail: lab@grc-india.com; info@grc-india.com



Test Report

Report Code: A20250331-077

Issue Date: 31.03.2025

Issued To: Revision & Expansion of Commercial Complex
Project by M/s Splender Landbase Ltd.,
at Village- Ullahawas, Sector 62, Gurugram, Haryana.
Sample Description: Ambient Air

Analysis Duration: 04.03.2025 to 29.03.2025

RESULTS

(Ambient Air Quality Analysis)

SAMPLING DETAILS

Sampling Location : Project Site
Sample Collected by : Mr. Sonu Sen
Sampling Protocol : GRC/LAB/STP/AIR/01: 2018
Weather Condition : Clear Sky
Sampling Duration : 24 Hours
Sampling Duration for CO : 1 Hour
Sampler Installation Height : 4.0 Meter above Ground Level
Sample Packing & Marking : Plastic Bottle/ Zip Polybag & SLL/MARCH/A001-A008

S. No. / Date / Zip Polybag & SLL / MARCH/A001-A008							
S. No.	Date	Test Parameters					
		Particulate Matter (PM ₁₀); µg/m ³	Particulate Matter (PM _{2.5}); µg/m ³	Sulphur Dioxide (SO ₂); µg/m ³	Nitrogen Dioxide (NO ₂); µg/m ³	Carbon Monoxide (CO); µg/m ³	
National Ambient Air Quality Standards (2009) - 24 Hours ** Except CO		IS 5182 (Part 23): 2006 (RA 2022)	IS 5182 (Part 24): 2019 (RA 2024)	IS 5182 (Part 2/Sec-1):2023	IS 5182 (Part 6): 2006 (RA 2022)	IS 5182 (Part 10): 1999 (RA 2019)	
		100	60	80	80	4000	
	1	03.03.2025	141.1	79.0	8.7	38.3	400
	2	06.03.2025	157.8	88.6	9.5	41.8	410
	3	10.03.2025	152.9	85.7	7.0	31.2	330
	4	13.03.2025	150.1	84.5	6.8	36.2	340
	5	17.03.2025	148.7	80.6	8.3	41.1	410
	6	20.03.2025	152.9	84.7	6.3	36.6	390
	7	24.03.2025	135.4	77.5	5.9	34.1	320
	8	27.03.2025	141.2	79.8	7.0	36.3	360
End of Report							

End of Report

Reviewed By

Narinder Singh
(Sr. Chemist)
Authorized Signatory
(Seal & Signature)

GRC-LAB/QF-039

Rev.:00

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Issue Date: 02.07.2018



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Test Report

Report Code: N20250313-077

Issue Date: 13.03.2025

Issued To: Revision & Expansion of Commercial Complex
Project by M/s Splendor Landbase Ltd.,
at Village- Ullahawas, Sector 62, Gurugram, Haryana.

Data Received on: 12.03.2025

Sample Description: Ambient Noise

RESULTS

(Ambient Noise Monitoring Data)

SAMPLING DETAILS

Date of Monitoring : 10.03.2025
Monitoring Done by : Mr. Sonu Sen
Monitoring Protocol : IS 9989: 1981, RA 2023
Weather Condition : Clear Sky
Monitoring Duration : 24 Hours

S. No.	Location	Zone	Prescribed Limit {Noise Pollution (Regulation & Control) Rules, 2000}; Leq, dB (A)		Observed Value; Leq, dB (A)	
			Day Time*	Night Time**	Day Time*	Night Time**
1	Project Site	Commercial Area	65	55	56.2	44.3
* Day Time		6.00 AM to 10.00 PM				
**Night Time		10.00 PM to 6.00 AM				

End of Report

Narinder Singh
(Sr. Chemist)
Authorized Signatory
(Seal & Signature)

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Test Report

Report Code: GW20250324-077(A)

Issue Date: 24.03.2025

Issued To: Revision & Expansion of Commercial Complex
Project by M/s Splendor Landbase Ltd.,
at Village- Ullahawas, Sector 62, Gurugram, Haryana.

Sample Received on: 11.03.2025
Analysis Duration: 11.03.2025 to 22.03.2025

Sample Description: Ground Water

RESULTS

(Water Quality Analysis)

SAMPLING DETAILS

Date of Sampling : 10.03.2025
Sampling Location : Project Site
Sample Collected by : Mr. Sonu Sen
Sampling Protocol : IS 17614 (Part-1): 2021
Weather Condition : Clear Sky
Sample Quantity : 5 Liter
Sample Packing & Marking : Plastic Bottle & SLL/MARCH/GW-01

S. No.	Parameters	Units	Requirements (as per IS 10500: 2012, RA 2023)		Results	Test Method
			Desirable Limit	Permissible Limit		
1	Color	Hazen	5	15	<5	IS 3025 (Part-4): 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5): 2018
3	Turbidity	NTU	1	5	<1	IS 3025 (Part-10): 2023
4	pH Value	-	6.5-8.5	No Relaxation	7.85	IS 3025 (Part-11): 2022
5	Total Dissolved Solids	mg/l	500	2000	1440	IS 3025 (Part-16): 2023
6	Total Hardness (as CaCO ₃)	mg/l	200	600	451	IS 3025 (Part-21): 2009, RA 2023
7	Total Alkalinity (as CaCO ₃)	mg/l	200	600	496	IS 3025 (Part-23): 2023
8	Chlorides (as Cl)	mg/l	250	1000	362	IS 3025 (Part-32): 1988, RA 2019
9	Fluoride (as F)	mg/l	1	1.5	0.8	APHA 24 th Ed., 4500F-D: 2024
10	Calcium (as Ca ²⁺)	mg/l	75	200	108	IS 3025 (Part-40): 2024
11	Magnesium (as Mg ²⁺)	mg/l	30	100	43	IS 3025 (Part-46): 2023
12	Sulphate (as SO ₄)	mg/l	200	400	148	IS 3025 (Part-24/Sec-1): 2022
13	Nitrate (as NO ₃)	mg/l	45	No Relaxation	18	IS 3025 (Part-34/Sec-1): 2023
14	Iron (as Fe)	mg/l	0.3	No Relaxation	0.54	3120-B, APHA 24 th Ed. 2024 (ICP-OES)

(Reviewed By)

Rahul Singh
(Sr. Chemist)
Authorized Signatory
(Seal & Signature)

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Report Code: GW20250324-077(A)

Test Report

Issue Date: 24.03.2025

15	Aluminum (as Al)	mg/l	0.03	0.2	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
16	Copper (as Cu)	mg/l	0.05	1.5	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
17	Manganese (as Mn)	mg/l	0.1	0.3	<0.1	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
18	Boron (as B)	mg/l	0.5	1	0.1	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
19	Zinc (as Zn)	mg/l	5	15	0.3	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
20	Selenium (as Se)	mg/l	0.01	No Relaxation	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES-VGA)
21	Arsenic (as As)	mg/l	0.01	0.05	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES-VGA)
22	Cadmium (as Cd)	mg/l	0.003	No Relaxation	<0.001	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
23	Total Chromium (as Cr3+)	mg/l	0.05	No Relaxation	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
24	Cyanide (as CN)	mg/l	0.05	No Relaxation	<0.01	IS 3025 (Part-27): 1986, RA 2019
25	Lead (as Pb)	mg/l	0.01	No Relaxation	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
26	Mercury (as Hg)	mg/l	0.001	No Relaxation	<0.001	APHA 24 th Ed., 3120-B: 2023 (ICP-OES-VGA)
27	Nickel (as Ni)	mg/l	0.02	No Relaxation	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
28	Phenolic Compounds (as C6H5OH)	mg/l	0.001	0.002	<0.001	IS 3025 (Part-43/Sec-1): 2022
29	Anionic Detergent (as MBAS)	mg/l	0.2	1	<0.01	IS 3025 (Part-68): 2023
30	Silica (as SiO2)	mg/l	--	--	4.7	APHA 24 th Ed., 4500-SiO2 (C/D): 2023
31	Phosphate (as PO4)	mg/l	--	--	1.8	APHA 24 th Ed., 4500-P D: 2023
32	Specific Conductivity	μS/cm	--	--	2160	IS 3025 (Part-14): 2013, RA 2023

End of Report

(Reviewed By)

Rahul Singh
(Sr. Chemist)
Authorized Signatory
(Seal & Signature)

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Test Report

Report Code: GW20250315-077(B)

Issue Date: 15.03.2025

Issued To: Revision & Expansion of Commercial Complex
Project by M/s Splender Landbase Ltd.,
at Village- Ullahawas, Sector 62, Gurugram, Haryana.

Sample Received on: 11.03.2025
Analysis Duration: 11.03.2025 to 14.03.2025

Sample Description: Ground Water

RESULTS

(Water Quality Analysis)

SAMPLING DETAILS

Date of Sampling : 10.03.2025
Sampling Location : Project Site
Sample Collected by : Mr. Sonu Sen
Sampling Protocol : IS 17614 (Part-25): 2022
Weather Condition : Clear Sky
Sample Quantity : 0.5 Liter
Sample Packing & Marking : Sterile Glass Bottle & SLL/MARCH/GW-01

S. No.	Parameters	Units	Requirements (as per IS 10500: 2012, RA 2023)	Results	Test Method
1	Total Coliform	MPN/100ml	Shall not be detected in 100 ml Sample	<2 (Not Detected)	IS 1622: 1981, RA 2019
2	<u>E. coli</u>	MPN/100ml	Shall not be detected in 100 ml Sample	<2 (Absent)	IS 1622: 1981, RA 2019

End of Report

Reviewed By

Ajay Kumar Sharma
(Sr. Quality Manager)
Authorized Signatory
(Seal & Signature)

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Report Code: S20250324-077

Test Report

Issue Date: 24.03.2025

Issued To: Revision & Expansion of Commercial Complex
Project by M/s Splendor Landbase Ltd.,
at Village- Ullahawas, Sector 62, Gurugram, Haryana.

Sample Received on: 11.03.2025
Analysis Duration: 11.03.2025 to 22.03.2025

Sample Description: Soil Sample

RESULTS

(Soil Quality Analysis)

SAMPLING DETAILS

Date of Sampling	: 10.03.2025
Sampling Location	: Project Site
Sample Collected by	: Mr. Sonu Sen
Sampling Protocol	: GRC/LAB/STP/01: 2018
Weather Condition	: Clear Sky
Sample Quantity	: 5 Kg (Composite sample)
Sample Packing & Marking	: Zip Polybag & SLL/MARCH/SQ-01

S. No.	Parameters	Units	Results	Test Method
1.	Texture	-	Sandy Clay Loam	GRC-LAB/STP-SOIL/22; 2018
2.	Particle Size Distribution	-	--	IS 2720 (Part-4): 1985, RA 2020
	Sand	%	58.7	
	Silt	%	18.4	
	Clay	%	22.9	
3.	pH (1:2 Suspension)	-	7.68	IS 2720 (Part-26): 1987, RA 2021
4.	Electrical Conductivity (1:2 Suspension)	µS/cm	426	IS 14767: 2000, RA 2021
5.	Moisture Content	%	6.8	IS 2720 (Part-2): 1973, RA 2020
6.	Cation Exchange Capacity (CEC)	meq/100gm	15.7	IS 2720 (Part-24): 1976, RA 2020
7.	Available Potassium (as K)	mg/kg	72	GRC-LAB/STP-SOIL/07; 2018
8.	Exchangeable Sodium (as Na)	mg/kg	146	GRC-LAB/STP-SOIL/06; 2018
9.	Exchangeable Calcium (as Ca)	mg/kg	2335	GRC-LAB/STP-SOIL/08; 2018
10.	Exchangeable Magnesium (as Mg)	mg/kg	389	GRC-LAB/STP-SOIL/08; 2018

(Reviewed By)

Narendra Singh
(Sr. Chemist)
Authorized Signatory
(Seal & Signature)

Issue Date: 22.07.2018

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11.	Sodium Absorption Ratio (SAR)	meq/kg	0.74	GRC-LAB/STP-SOIL/19; 2018
12.	Organic Matter	%	0.83	IS 2720 (Part-22): 1972, RA 2020
13.	Total Nitrogen (as N)	mg/kg	44	IS 14684: 1999, RA 2019
14.	Total Phosphate (as PO ₄)	mg/kg	6.7	USEPA Method 365.3: 1978
15.	Iron (as Fe)	mg/kg	3.86	USEPA Method 3051-A (Rev.-01): 2007
16.	Zinc (as Zn)	mg/kg	1.62	USEPA Method 3051-A (Rev.-01): 2007
17.	Copper (as Cu)	mg/kg	1.2	USEPA Method 3051-A (Rev.-01): 2007
18.	Boron (as B)	mg/kg	2.5	USEPA Method 3051-A (Rev.-01): 2007
19.	Manganese (as Mn)	mg/kg	4.5	USEPA Method 3051-A (Rev.-01): 2007
20.	Water Holding Capacity	%	35.8	GRC-LAB/STP-SOIL/13; 2020
21.	Permeability at 27°C	cm/sec	2.2	IS 2720 (Part-17): 1986, RA 2021
22.	Porosity	%	29.8	GRC-LAB/STP-SOIL/20; 2020
23.	Bulk Density	gm/cm ³	1.36	GRC-LAB/STP-SOIL/12; 2018

****End of Report****

(Reviewed By)

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