



GRC India

GRC INDIA TRAINING & ANALYTICAL LABORATORY

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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: A20240430-004

Issue Date: 30.04.2024

Issued To: Revision and Expansion of Commercial Project by
M/s Splendor Landbase Ltd; Vill- Ullahawas
Sector-62, District-Gurugram, Haryana.

Analysis Duration: 05.04.2024 to 30.04.2024

Sample Description: Ambient Air

RESULTS

(Ambient Air Quality Analysis)

SAMPLING DETAILS

Sampling Location	: Project Site
Sample Collected by	: Mr. Maan Singh
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/APR/A001-A008

S. No.	Date	Test Parameters				
		Particulate Matter (PM ₁₀); µg/m ³ IS 5182 (Part 23): 2006 (RA 2022)	Particulate Matter (PM _{2.5}); µg/m ³ IS 5182 (Part 24): 2019 (RA 2024)	Sulphur Dioxide (SO ₂); µg/m ³ IS 5182 (Part 2): 2001 (RA 2022)	Nitrogen Dioxide (NO ₂); µg/m ³ IS 5182 (Part 6): 2006 (RA 2022)	Carbon Monoxide (CO); µg/m ³ IS 5182 (Part 10): 1999 (RA 2019)
National Ambient Air Quality Standards (2009) - 24 Hours ** Except CO		100	60	80	80	4000
1	03.04.2024	143.9	119.7	9.4	39.1	410
2	06.04.2024	149.2	121.9	11.2	43.9	330
3	10.04.2024	137.9	117.7	8.2	34.2	390
4	13.04.2024	142.1	118.2	9.6	31.3	430
5	17.04.2024	116.5	109.6	9.6	34.6	290
6	20.04.2024	135.8	117.4	11.1	37.9	380
7	24.04.2024	129.7	111.1	9.3	30.8	330
8	27.04.2024	136.2	114.7	11.2	34.2	310

End of Report

Analyzed By
(Chemist)

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: N20240410-004

Issue Date: 10.04.2024

Monitoring Data Received On: 06.04.2024

Issued To: Revision and Expansion of Commercial Project by
M/s Splendor Landbase Ltd; Village- Ullahawas,
Zone, Tehsil-Badkhal, District-Faridabad, Haryana.

Sample Description: Ambient Noise

RESULTS

(Ambient Noise Monitoring Data)

SAMPLING DETAILS

Date of Monitoring : 05.04.2024
 Monitoring Done by : Mr. Maan Singh
 Monitoring Protocol : IS 9989: 1981, RA 2020
 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	63.3	52.4
* Day Time		6.00 AM to 10.00 PM				
**Night Time		10.00 PM to 6.00 AM				

End of Report

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

Issue Date: 02.07.2018

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Test Report

Report Code: GW20240422-004(A)

Issue Date: 22.04.2024

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

Sample Received On: 06.04.2024
Analysis Duration: 06.04.2024 to 20.04.2024

Sample Description: Ground Water

RESULTS

(Water Quality Analysis)

SAMPLING DETAILS

Date of Sampling : 05.04.2024
 Sampling Location : Near Project Site
 Sample Collected by : Mr. Maan Singh
 Sampling Protocol : IS 17614 (Part-1): 2021
 Weather Condition : Clear Sky
 Sample Quantity : 5 Liter
 Sample Packing & Marking : Plastic Bottle & SLL/APR/GW-01

S. No.	Parameters	Units	Requirements (as per IS 10500: 2012, RA 2018)		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	7.93	IS 3025 (Part-11): 2022
5	Total Dissolved Solids	mg/l	500	2000	1310	IS 3025 (Part-16): 2023
6	Total Hardness (as CaCO3)	mg/l	200	600	440	IS 3025 (Part-21): 2009, RA 2019
7	Total Alkalinity (as CaCO3)	mg/l	200	600	473	IS 3025 (Part-23): 2023
8	Chlorides (as Cl)	mg/l	250	1000	280	IS 3025 (Part-32): 1988, RA 2019
9	Fluoride (as F)	mg/l	1	1.5	0.53	APHA 24 th Ed., 4500F-D: 2024
10	Calcium (as Ca ²⁺)	mg/l	75	200	105	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	130	IS 3025 (Part-24/Sec-1): 2022
13	Nitrate (as NO ₃)	mg/l	45	No Relaxation	15.4	IS 3025 (Part-34/Sec-1): 2023
14	Iron (as Fe)	mg/l	0.3	No Relaxation	0.29	3120-B, APHA 24 th Ed. 2024 (ICP-OES)

Analyzed By
(Chemist)

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

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Issue Date: 02.07.2018



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Issue Date: 22.04.2024

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	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
18	Boron (as B)	mg/l	0.5	1	<0.01	APHA 24 th Ed., 3120-B: 2023 (ICP-OES)
19	Zinc (as Zn)	mg/l	5	15	<0.01	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 Cr ³⁺)	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 C ₆ H ₅ OH)	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): 2019
30	Silica (as SiO ₂)	mg/l	--	--	4.7	APHA 24 th Ed., 4500-SiO ₂ (C/D): 2023
31	Phosphate (as PO ₄)	mg/l	--	--	0.93	APHA 24 th Ed., 4500-P D: 2023
32	Specific Conductivity	μS/cm	--	--	1960	IS 3025 (Part-14): 2013, RA 2023

End of Report

Analyzed By
(Chemist)

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

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Test Report

Report Code: GW20240410-004(B)

Issue Date: 10.04.2024

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

Sample Received On: 06.04.2024
 Analysis Duration: 06.04.2024 to 09.04.2024

Sample Description: Ground Water

RESULTS

(Water Quality Analysis)

SAMPLING DETAILS

Date of Sampling : 05.04.2024
 Sampling Location : Near Project Site
 Sample Collected by : Mr. Maan Singh
 Sampling Protocol : IS 17614 (Part-25): 2022
 Weather Condition : Clear Sky
 Sample Quantity : 0.5 Liter
 Sample Packing & Marking : Sterile Glass Bottle & SLL/APR/GW-01

S. No.	Parameters	Units	Requirements (as per IS 10500: 2012, RA 2018)	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	E. coli	MPN/100ml	Shall not be detected in 100 ml Sample	<2 (Absent)	IS 1622: 1981, RA 2019

End of Report

Analyzed By
 (Microbiologist)

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

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Test Report

Report Code: S20240421-004

Issue Date: 21.04.2024

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

Sample Received On: 06.04.2024
Analysis Duration: 06.04.2024 to 20.04.2024

Sample Description: Soil Sample

RESULTS

(Soil Quality Analysis)

SAMPLING DETAILS

Date of Sampling : 05.04.2024
Sampling Location : Project Site
Sample Collected by : Mr. Maan Singh
Sampling Protocol : GRC/LAB/STP/01: 2018
Weather Condition : Clear Sky
Sample Quantity : 5 Kg (Composite sample)
Sample Packing & Marking : Zip Polybag & SLL/APR/SQ-01

S. No.	Parameters	Units	Results	Test Method
1.	Texture	-	Sandy loam	GRC-LAB/STP-SOIL/22; 2018
2.	Particle Size Distribution	-		IS 2720 (Part-4): 1985, RA 2020
	Sand	%	64.7	
	Silt	%	18.2	
	Clay	%	17.1	
3.	pH (1:2 Suspension)	-	7.83	IS 2720 (Part-26): 1987, RA 2021
4.	Electrical Conductivity (1:2 Suspension)	µS/cm	436	IS 14767: 2000, RA 2021
5.	Moisture Content	%	6.3	IS 2720 (Part-2): 1973, RA 2020
6.	Cation Exchange Capacity (CEC)	meq/100gm	13.6	IS 2720 (Part-24): 1976, RA 2020
7.	Available Potassium (as K)	mg/kg	63	GRC-LAB/STP-SOIL/07; 2018
8.	Exchangeable Sodium (as Na)	mg/kg	131	GRC-LAB/STP-SOIL/06; 2018
9.	Exchangeable Calcium (as Ca)	mg/kg	1956	GRC-LAB/STP-SOIL/08; 2018
10.	Exchangeable Magnesium (as Mg)	mg/kg	373	GRC-LAB/STP-SOIL/08; 2018
11.	Sodium Absorption Ratio (SAR)	meq/kg	0.71	GRC-LAB/STP-SOIL/19; 2018

Analyzed By
(Chemist)

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

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Report Code: S20240421-004

Test Report

Issue Date: 21.04.2024

12.	Organic Matter	%	0.53	IS 2720 (Part-22): 1972, RA 2020
13.	Total Nitrogen (as N)	mg/kg	43	IS 14684: 1999, RA 2019
14.	Total Phosphate (as PO ₄)	mg/kg	5.4	USEPA Method 365.3: 1978
15.	Iron (as Fe)	mg/kg	2.8	USEPA Method 3051-A (Rev.-01): 2007
16.	Zinc (as Zn)	mg/kg	1.2	USEPA Method 3051-A (Rev.-01): 2007
17.	Copper (as Cu)	mg/kg	0.83	USEPA Method 3051-A (Rev.-01): 2007
18.	Boron (as B)	mg/kg	1.25	USEPA Method 3051-A (Rev.-01): 2007
19.	Manganese (as Mn)	mg/kg	7.8	USEPA Method 3051-A (Rev.-01): 2007
20.	Water Holding Capacity	%	25.7	GRC-LAB/STP-SOIL/13; 2020
21.	Permeability at 27°C	cm/sec	2.4	IS 2720 (Part-17): 1986, RA 2021
22.	Porosity	%	40.5	GRC-LAB/STP-SOIL/20; 2020
23.	Bulk Density	gm/cm ³	1.31	GRC-LAB/STP-SOIL/12; 2018

****End of Report****

Analyzed By
 (Chemist)

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

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