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Recognized by Ministry of Environment, Forest & Climate Change (MoEF&CC, GOI),
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Phone No.: 0120 - 4044630, 4044660, 4323120, Fax: 0120 - 2406519, 0120 - 4044675
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Test Report

Report Code: A20230331-005

Issue Date: 31.03.2023

Issued To: 'Expansion of Residential Apartment Project
"9 Boulevard" M/s. OU Infraproject Pvt Ltd.
at Mouza-Raghunathpur, Tehsil- Bhubaneshwar,
District- Khurda, Odisha.

Analysis Duration: 04.03.2023 to 30.03.2023

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 Location w.r.t. Height : 4.0 Meter above Ground Level
 Sample Packing & Marking : Plastic Bottle/ Zip Polybag & OUIP/MAR/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
		IS 5182 (Part 23):2006 (RA 2022)	IS 5182 (Part 24):2019	IS 5182 (Part 2):2001 (RA 2017)	IS 5182 (Part 6):2006 (RA 2022)	IS 5182 (Part 10):1999 (RA 2019)
1	02.03.2023	89.7	47.6	9.7	20.5	650
2	06.03.2023	81.1	42.6	10.4	17.0	510
3	10.03.2023	87.2	45.1	11.1	19.6	660
4	13.03.2023	78.3	39.2	10.2	15.1	570
5	17.03.2023	86.9	46.8	9.5	18.8	660
6	20.03.2023	86.7	44.9	11.3	20.3	610
7	23.03.2023	75.2	39.5	10.6	19.2	680
8	27.03.2023	83.6	43.4	11.7	20.6	620

End of Report

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

GRC-LAB/QF-039

Rev.:00

Issue Date: 02.07.2018

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Test Report

Report Code: N20230316-005

Issue Date: 16.03.2023

Issued To: Expansion of Residential Apartment Project
"9 Boulevard" M/s. OU Infraproject Pvt Ltd.
at Mouza-Raghunathpur, Tehsil- Bhubaneshwar,
District- Khurda, Odisha.

Data Received on: 15.03.2023

Sample Description: Ambient Noise

RESULTS

Ambient Noise Level

MONITORING DETAILS

Date of Monitoring : 13.03.2023
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	Limit As Per Noise Pollution (Regulation & Control) Rules, 2000		Observed Value Leq, dB (A)	
			Day Time*	Night Time**	Day Time*	Night Time**
			1	Project Site	Residential Area	55
	* Day Time	6.00 a.m. to 10.00 p.m				
	**Night Time	10.00 p.m. to 6.00 a.m.				

****End of Report****


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



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Test Report

Report Code: S20230321-005

Issue Date: 21.03.2023

Issued To: 'Expansion of Residential Apartment Project
"9 Boulevard" M/s. OU Infraproject Pvt Ltd.
at Mouza-Raghunathpur, Tehsil- Bhubaneshwar,
District- Khurda, Odisha.

Sample Received on: 04.03.2023
Analysis Duration: 06.03.2023 to 20.03.2023

Sample Description: Soil Sample

RESULTS Soil Quality Analysis

SAMPLING DETAILS

Date of Sampling	: 02.03.2023
Sampling Location	: Project Site
Sample Collected by	: Mr. Maan Singh
Sampling Protocol	: GRC/LAB/STP/SOIL/01; 2018
Weather Condition	: Clear Sky
Sample Quantity	: 5 kg
Sample Packing & Marking	: Zip Polybag; OUIP/MAR/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	%	53.6	
	Silt	%	17.8	
	Clay	%	28.6	
3.	pH (1:2 Suspension)	-	7.58	IS 2720 (Part-26): 1987, RA 2021
4.	Electrical Conductivity (1:2)	$\mu\text{S/cm}$	287	IS 14767: 2000, RA 2021
5.	Moisture Content	%	10.3	IS 2720 (Part-2): 1973, RA 2020
6.	Cation Exchange Capacity (CEC)	meq/100 gm	13.7	IS 2720 (Part-24): 1976, RA 2020
7.	Available Potassium (as K)	mg/kg	44	GRC-LAB/STP-SOIL/07; 2018
8.	Exchangeable Sodium (as Na)	mg/kg	107	GRC-LAB/STP-SOIL/07; 2018
9.	Exchangeable Calcium (as Ca)	mg/kg	2076	GRC-LAB/STP-SOIL/08; 2018
10.	Exchangeable Magnesium (as Mg)	mg/kg	328	GRC-LAB/STP-SOIL/08; 2018
11.	Sodium Absorption Ratio (SAR)	-	0.57	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	42	IS 14684: 1999 RA 2019
14.	Nitrate (as NO_3)	mg/kg	3.8	IS 14684: 1999 RA 2019
15.	Total Phosphate (as PO_4)	mg/kg	6.3	USEPA Method 365.3: 1978
16.	Iron (as Fe)	mg/kg	3.9	USEPA Method 3051-A: 2007
17.	Zinc (as Zn)	mg/kg	1.2	USEPA Method 3051-A: 2007

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

GRC-LAB/QI-039

Rev:00

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18.	Copper (as Cu)	mg/kg	1.4	USEPA Method 3051-A: 2007
19.	Boron (as B)	mg/kg	1.2	USEPA Method 3051-A: 2007
20.	Manganese (as Mn)	mg/kg	8.7	USEPA Method 3051-A: 2007
21.	Water Holding Capacity	%	33.5	GRC-LAB/STP-SOIL/13; 2020
22.	Permeability	cm/hr	2.3	IS 2720 (Part-17): 1986, RA 2021
23.	Porosity	%	28.7	GRC-LAB/STP-SOIL/20; 2020
24.	Bulk Density	gm/cc	1.33	GRC-LAB/STP-SOIL/12; 2018

****End of Report****


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

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TC-7501

Test Report

Report Code: GW20230321-005(A)

Issue Date: 21.03.2023

Issued To: 'Expansion of Residential Apartment Project
"9 Boulevard" M/s. OU Infraproject Pvt Ltd.
at Mouza-Raghunathpur, Tehsil- Bhubaneswar,
District- Khurda, Odisha.

Sample Received on: 04.03.2023
Analysis Duration: 06.03.2023 to 20.03.2023

Sample Description: Ground Water

RESULTS

Water Quality Analysis

SAMPLING DETAILS

Date of Sampling	: 02.03.2023
Sampling Location	: Project site
Sample Collected by	: Mr. Maan Singh
Sampling Protocol	: IS-17614 (Part-1):2021
Weather Condition	: Clear Sky
Sample Quantity	: 5 L
Sample Packing & Mark	: Plastic Bottle & OUIP/MAR/GW-01

S. No.	Parameters	Units	Limits (as per IS:10500-2012)		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): 1984, RA 2017
4	pH Value	-	6.5-8.5	No Relaxation	7.67	IS 3025 (Part-11): 2022
5	Total Dissolved Solids	mg/l	500	2000	346	IS 3025 (Part-16): 2023
6	Total Hardness (as CaCO3)	mg/l	200	600	192	IS 3025 (Part-21): 2009, RA 2019
7	Total Alkalinity (as CaCO3)	mg/l	200	600	121	IS 3025 (Part-23): 1986, RA 2019
8	Chlorides (as Cl)	mg/l	250	1000	86	IS 3025 (Part-32): 1988, RA 2019
9	Fluoride (as F)	mg/l	1	1.5	0.4	4500F-D, APHA 24th Ed. 2023
10	Calcium (as Ca ²⁺)	mg/l	75	200	46	IS 3025 (Part-40): 1991, RA 2019
11	Magnesium (as Mg ²⁺)	mg/l	30	100	18	IS 3025 (Part-46): 1994, RA 2019
12	Sulphate (as SO ₄)	mg/l	200	400	36	IS 3025 (Part-24/Sec-1): 2022
13	Nitrate (as NO ₃)	mg/l	45	No Relaxation	9	IS 3025 (Part-34/Sec-3): 2021
14	Iron (as Fe)	mg/l	1	No Relaxation	0.34	3120-B, APHA 24th Ed. 2023 (ICP-OES)
15	Aluminum (as Al)	mg/l	0.03	0.2	<0.01	3120-B, APHA 24th Ed. 2023 (ICP-OES)
16	Copper (as Cu)	mg/l	0.05	1.5	<0.01	3120-B, APHA 24th Ed. 2023 (ICP-OES)

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

GRC-LAB/QF-039

Rev 00

Issue Date: 02.07.2018

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Test Report

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Issue Date: 21.03.2023

17	Manganese (as Mn)	mg/l	0.1	0.3	<0.01	3120-B, APHA 24th Ed. 2023 (ICP-OES)
18	Boron (as B)	mg/l	0.5	1	<0.01	3120-B, APHA 24th Ed. 2023 (ICP-OES)
19	Zinc (as Zn)	mg/l	5	15	<0.01	3120-B, APHA 24th Ed. 2023 (ICP-OES)
20	Selenium (as Se)	mg/l	0.01	No Relaxation	<0.01	3120-B, APHA 24th Ed. 2023 (ICP-OES)
21	Arsenic (as As)	mg/l	0.01	0.05	<0.01	3120-B, APHA 24th Ed. 2023 (ICP-OES)
22	Cadmium (as Cd)	mg/l	0.003	No Relaxation	<0.001	3120-B, APHA 24th Ed. 2023 (ICP-OES)
23	Total Chromium (as Cr ³⁺)	mg/l	0.05	No Relaxation	<0.01	3120-B, APHA 24th Ed. 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	3120-B, APHA 24th Ed. 2023 (ICP-OES)
26	Mercury (as Hg)	mg/l	0.001	No Relaxation	<0.001	3120-B, APHA 24th Ed. 2023 (ICP-OES)
27	Nickel (as Ni)	mg/l	0.02	No Relaxation	<0.01	3120-B, APHA 24th Ed. 2023 (ICP-OES)
28	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	0.001	0.002	<0.001	IS 3025 (Part-43): 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	--	--	4.9	4500-SiO ₂ (C/D), APHA 24th Ed. 2023
31	Phosphate (as PO ₄)	mg/l	--	--	1.8	4500-P D, APHA 24th Ed. 2023
32	Specific Conductivity	µS/cm	-	-	520	IS 3025 (Part-14): 2013, RA 2019

** End of Report **


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

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Test Report

Report Code: GW20230311-005(B)

Issue Date: 11.03.2023

Issued To: 'Expansion of Residential Apartment Project
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at Mouza-Raghunathpur, Tehsil- Bhubaneshwar,
District- Khurda, Odisha.

Sample Received on: 04.03.2023
Analysis Duration: 06.03.2023 to 11.03.2023

Sample Description: Ground Water

RESULTS

Water Quality Analysis

SAMPLING DETAILS

Date of Sampling	: 02.03.2023
Sampling Location	: Project Site
Sample Collected by	: Mr. Maan Singh
Sampling Protocol	: IS 1622: 1981, RA 2019
Weather Condition	: Clear Sky
Sample Quantity	: 500 ml
Sample Packing & Mark	: Glass Bottle & OUIP/MAR/GW-01

S. No.	Parameters	Units	Limits (as per IS 10500: 2012)	Results	Test Method
1	Total Coliform	MPN/100ml	shall not be detectable	Not Detected (<2)	IS 1622: 1981, RA 2019
2	E. coli	MPN/100ml	shall not be detectable	Absent (<2)	IS 1622: 1981, RA 2019)

**** End of Report ****


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



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Test Report

Report Code: SW20230321-005(A)

Issue Date: 21.03.2023

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at Mouza-Raghunathpur, Tehsil- Bhubaneshwar,
District- Khurda, Odisha.

Sample Received on: 04.03.2023
Analysis Duration: 06.03.2023 to 20.03.2023

Sample Description: Surface Water

RESULTS (Water Quality Analysis)

SAMPLING DETAILS

Date of Sampling	: 02.03.2023
Sampling Location	: Kuakhai River
Sample Collected by	: Mr. Maan Singh
Sampling Protocol	: IS 17614 (Part-1):2021
Weather Condition	: Clear Sky
Sample Quantity	: 5 L
Sample Packing & Marking	: Plastic Bottle & OUIP/MAR/SW-01

S. No.	Parameters	Units	Results	Test Method
1.	Color	Hazen	<5	IS 3025 (Part-4): 2021
2.	Turbidity	NTU	26	IS 3025 (Part-5): 2018
3.	Temperature	⁰ C	22.3	IS 3025 (Part-10): 1984, RA 2017
4.	pH Value	-	7.27	IS 3025 (Part-11): 2022
5.	Dissolved Oxygen	mg/l	5.9	IS 3025 (Part-16): 2023
6.	Biochemical Oxygen Demand (BOD) 3 Days at 27 ⁰ C	mg/l	3.1	IS 3025 (Part-21): 2009, RA 2019
7.	Chemical Oxygen Demand	mg/l	12.4	IS 3025 (Part-23): 1986, RA 2019
8.	Total Dissolved Solids	mg/l	136	IS 3025 (Part-32): 1988, RA 2019
9.	Total Hardness (as CaCO ₃)	mg/l	86	4500F-D, APHA 24 th Ed. 2023
10.	Total Alkalinity (as CaCO ₃)	mg/l	65	IS 3025 (Part-40): 1991, RA 2019
11.	Chlorides (as Cl)	mg/l	28	IS 3025 (Part-46): 1994, RA 2019
12.	Fluoride (as F)	mg/l	0.5	IS 4500F-D, APHA 24th Ed.2023
13.	Calcium (as Ca ²⁺)	mg/l	21	IS 3025 (Part-34/Sec-3): 2021
14.	Magnesium (as Mg ²⁺)	mg/l	8	3120-B, APHA 24th Ed. 2023 (ICP-OES)
15.	Sodium (as Na ⁺)	mg/l	12.8	3120-B, APHA 24th Ed. 2023 (ICP-OES)


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



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16.	Potassium (as K ⁺)	mg/l	2.4	3120-B, APHA 24th Ed. 2023 (ICP-OES)
17.	Sulphate (as SO ₄)	mg/l	8.1	IS 3025 (Part-24): 1986, RA 2022
18.	Total Kjeldahl Nitrogen (as N)	mg/l	0.8	IS 3025 (Part-34/Sec-2): 2021
19.	Free Ammonia (as NH ₃)	mg/l	0.2	IS 3025 (Part-34/Sec-2): 2021
20.	Nitrate (as NO ₃)	mg/l	1.3	IS 3025 (Part-34/Sec-3): 2021
21.	Silica (as SiO ₂)	mg/l	6.4	4500-SiO ₂ (C/D), APHA 24 th Ed. 2023
22.	Phosphate (as PO ₄)	mg/l	0.2	4500-P D, APHA 24th Ed.2023
23.	Iron (as Fe)	mg/l	0.96	3120-B, APHA 24th Ed.2023 (ICP-OES)
24.	Aluminum (as Al)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
25.	Boron (as B)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
26.	Copper (as Cu)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
27.	Manganese (as Mn)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
28.	Zinc (as Zn)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
29.	Selenium (as Se)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
30.	Arsenic (as As)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
31.	Cadmium (as Cd)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
32.	Total Chromium (as Cr ³⁺)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
33.	Cyanide (as CN)	mg/l	<0.01	IS 3025 (Part-27): 1986, RA 2019
34.	Lead (as Pb)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
35.	Mercury (as Hg)	mg/l	<0.001	3120-B, APHA 24th Ed.2023 (ICP-OES)
36.	Nickel (as Ni)	mg/l	<0.01	3120-B, APHA 24th Ed.2023 (ICP-OES)
37.	Total Suspended Solids	mg/l	34.1	IS 3025 (Part-17): 1984, RA 2017
38.	Sodium Adsorption Ratio	-	0.4	IS 11624: 2019
39.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	<0.001	IS 3025 (Part-43/Sec-3): 2022
40.	Anionic Detergent (as MBAS)	mg/l	<0.01	IS 3025 (Part-68): 2019
41.	Specific Conductivity	μS/cm	206	IS 3025 (Part-14): 1984, RA 2019

**** End of Report ****


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



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
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Recognized by Ministry of Environment, Forest & Climate Change (MoEF&CC, GOI),
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TC-7501

Test Report

Report Code: SW20230311-005(B)

Issue Date: 11.03.2023

Issued To: 'Expansion of Residential Apartment Project
"9 Boulevard" M/s. OU Infraproject Pvt Ltd.
at Mouza-Raghunathpur, Tehsil- Bhubaneshwar,
District- Khurda, Odisha.

Sample Received on: 04.03.2023
Analysis Duration: 06.03.2023 to 11.03.2023

Sample Description: Surface Water

RESULTS

(Water Quality Analysis)

SAMPLING DETAILS

Date of Sampling : 02.03.2023
Sampling Location : Kuakhai River
Sample Collected by : Mr. Maan Singh
Sampling Protocol : IS 1622:1981, RA 2019
Weather Condition : Clear Sky
Sample Quantity : 0.5 L
Sample Packing & Marking : Glass Bottle & OUIP/MAR/SW-01

S. No.	Parameters	Units	Results	Test Method
1.	Total Coliform Organism	MPN/100ml	410	IS 1622: 1981, RA 2019
2.	Faecal Coliform Organism	MPN/100ml	71	IS 1622: 1981, RA 2019

** End of Report **

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