



Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/3

Accredited as per ISO/IEC 17025: 2017 by NABL

Industrial & Analytical Testing laboratory



TC-5432

TEST REPORT

Test Report No.	ST/TR/24/03/444	Job Code:	M0650524
Date of receipt	13-03-2024	Date of Issue of Test Report	15-03-2024
Customer's Name & Address	P & M AND HI-TECH INFRASTRUCTURE LLP P & M HI-TECH CITY CENTRE MALL, 3 rd FLOOR, BISTUPUR, JAMSHEDPUR, PIN CODE - 831001 (JHARKHAND).		
Customer's Letter No.	LETTER REF. NO.: - NA		

SAMPLE DETAILS:

Sample No.	A41219, A41220, A41221, A41222	Material/ Item:	ABSORBED POLLUTANT IN GFA & IMPINGER FROM SITE
Material Condition	GOOD	Environmental condition:	Laboratory Temperature at time Analysis : 27°C
Standard Applicable for testing	IS: 5182(P-23):2006 , IS: 5182 (P-2): 2001, IS: 5182 (P-6): 2006, IS: 5182 (P-24):2019	Deviation in testing from Standard	NO
Nature of Industry	MALL	Date of Sampling	11/03/2024 - 12/03/2024
SAMPLING	Done by Laboratory	Done by Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location	N - 22°47'13" E - 86°10'18"	
	Sampling Method/ Sampling Plan	ST/SOP/AAQ/01	
	Environmental Condition	Temperature: 37°C	
	Sample Collected by	Sukanta, Goutam	
Sample analysis Start date:	13-03-2024	Sample analysis End date:	15-03-2024

TEST RESULTS

MATERIAL		AMBIENT AIR		Discipline/ Group		CHEMICAL / ATMOSPHERIC POLLUTION			
SAMPLE NO	Test Parameters	UNIT	OUTLET				Method Reference	REQUIREMENT (ACCEPTABLE LIMITS)	Conformity
			EAST SIDE FRONT	WEST SIDE FRONT	BACK SIDE	AVERAGE			
A41219	Particulate Matter (PM ₁₀),	µg/m³	80.26	76.13	73.90	76.76	IS: 5182 (P-23):2006	100, Max.	YES
A41220	Sulphur Dioxide (SO ₂)	µg/m³	12.69	11.23	10.40	11.44	IS: 5182 (P-2): 2001	80 , Max.	YES
A41221	Nitrogen Dioxide (NO ₂)	µg/m³	21.93	21.29	21.35	21.52	IS: 5182 (P-6): 2006	80, Max.	YES
A41222	Particulate Matter (PM _{2.5})	µg/m³	52.26	53.06	50.25	51.86	IS: 5182 (P-24):2019	60, Max.	YES

Note:- *As per National Ambient Air Quality Standards by Central Pollution Control Board (CPCB) Notification, New Delhi 18/11/2009

REMARK (if any) :- OK

Done By:- Sukanta, Goutam.

*****END OF REPORT*****

SR. SCIENTIST:- SUKANTA MAHATO

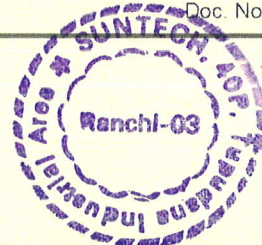
SR. SCIENTIST ASSTT:- GOUTAM MAHATO

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

Doc. No.F01(7.8) Amnd. 09



059398



Preeti Varma

Authorised Signatory

Reviewed By: Sukanta Mahato

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TEST REPORT

Test Report No.	ST/TR/24/03/445	Job Code:	M0650524
Date of receipt	13-03-2024	Date of Issue of Test Report	15-03-2024
Customer's Name & Address	P & M AND HI-TECH INFRASTRUCTURE LLP P & M HI-TECH CITY CENTRE MALL, 3rd FLOOR, BISTUPUR, JAMSHEDPUR, PIN CODE - 831001 (JHARKHAND).		
Customer's Letter No.	LETTER REF. NO.: - NIL		

SAMPLE DETAILS:

Sample No.	A41223	Material/ Item:	NOISE QUALITY RECORDED IN SOUND LEVEL METER AT SITE
Material Condition	GOOD	Environmental condition:	Laboratory Temperature at time Analysis : 27°C
Standard Applicable for testing	IS: 9989 - 1981	Deviation in testing from Standard	NO
Operational Status	YES	Types OF Noise (Indoor/Outdoor)	OUTDOOR
Date of Monitoring	11/03/2024 - 12/03/2024	Weather Condition During Observation	SUNNY
Time of Observation	DAY & NIGHT	Nature of Industry	MALL
SAMPLING	Done by Laboratory		Done by Customer
IF, SAMPLING DONE BY LABORATORY	Sampling Location	N - 22°47'13"	E - 86°10'18"
	Sampling Method/ Sampling Plan	ST/SOP/NQ/01	
	Environmental Condition	Temperature: 37°C	
	Sample Collected by	Sukanta, Goutam	
Sample analysis Start date:		13-03-2024	Sample analysis End date: 15-03-2024

TEST RESULTS

MATERIAL		NOISE	Discipline/ Group	CHEMICAL / ATMOSPHERIC POLLUTION		
S. No	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits) As Per IS: 9989 - 1981.	Conformity
1	Ambient Noise Level in Leq (DAY)	dB (A) Leq	65	IS: 9989 - 1981	75 dB (A)Leq Day/Time & 70dB (A)Leq Night/Time	YES
2	Ambient Noise Level in Leq (NIGHT)	dB (A) Leq	53			YES

Done By:- Sukanta, Goutam.

*****END OF REPORT*****

SR. SCIENTIST:- SUKANTA MAHATO

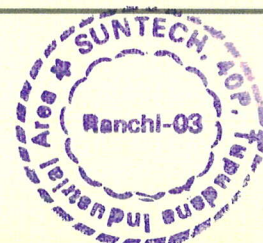
SR. SCIENTIST ASSTT.-: GOUTAM MAHATO

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Preeti Varma

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TC-5432

TEST REPORT

Test Report No.	ST/TR/24/03/490	ULR No.	TC54322400000990F	Job Code:	M0650524
Date of receipt	13-03-2024	Date of Issue of Test Report		16-03-2024	
Customer's Name & Address	P & M AND HI-TECH INFRASTRUCTURE LLP P & M MALL HI-TECH CITY CENTRE MALL, 3rd FLOOR, BISTUPUR, JAMSHEDPUR, PIN CODE - 831001 (JHARKHAND)				
Customer's Letter No.	LETTER REF. NO.: - NIL				

SAMPLE DETAILS:

Sample No.	A41224	Material/ Item:	5 + 1 LITRE WATER SAMPLE IN SEALED JARICAN, BOTTLE
Material Condition	SAMPLE IN SEALED JARICAN, BOTTLE	Environmental condition:	Laboratory Temperature at time Analysis : 27°C
Standard Applicable for testing	IS:3025, IS 15185 : 2016/ ISO 9308 (P-1): 2014	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory	Done by Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location	W.T.P. OUTLET (North: 22°47'14", East: 86°10'50")	
	Sampling Method/ Sampling Plan	ST/SOP/SAMPLING/ WATER/01	
	Environmental Condition	Temperature: 38°C	
Sample analysis Start date:	13-03-2024	Sample analysis End date:	16-03-2024

TEST RESULTS

MATERIAL	DRINKING WATER	Discipline/ Group	CHEMICAL / WATER			
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits) As Per IS:10500- 2012	Conformity
(1) Physical Analysis						
1	Odour (Agreeable/Not Agreeable)	-	Agreeable	IS:3025 (Part 5)-1983	Agreeable	YES
2	Taste (Agreeable/Not Agreeable)	-	Agreeable	IS:3025 (Part 8)-1984	Agreeable	YES
3	Turbidity (unit on NTU scale)	NTU Scale	0.62	IS:3025 (Part 10)-1983 RA' 2002	1 NTU Max.	YES

Done by:- Dheeraj, Sukumar.

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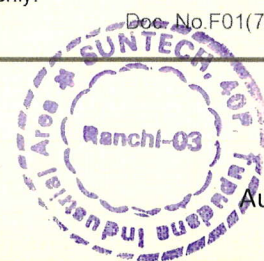


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TEST REPORT

Test Report No.	ST/TR/24/03/490	ULR No.	TC543224000000990F	Job Code:	M0650524
Date of receipt	13-03-2024	Date of Issue of Test Report		16-03-2024	
Customer's Name & Address	P & M AND HI-TECH INFRASTRUCTURE LLP P & M MALL HI-TECH CITY CENTRE MALL, 3rd FLOOR, BISTUPUR, JAMSHEDPUR,				
Customer's Letter No.	LETTER REF. NO.: - NIL				

SAMPLE DETAILS:

Sample No.	A41224	Material/ Item:	5 + 1 LITRE WATER SAMPLE IN SEALED JARICAN, BOTTLE
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TEST RESULTS

MATERIAL		DRINKING WATER		Discipline/ Group	CHEMICAL / WATER	
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits) As Per IS: 10500- 2012	Conformity

(2) Chemical Analysis

1	pH	-	7.60	IS:3025 (Part 11)-1983 RA 2002	6.50-8.50	YES
2	Total Dissolved Solids (Filterable)	mg/l	193.00	IS:3025 (Part 15)-1984	-	-
3	Total Hardness (as CaCO ₃)	mg/l	22.22	IS:3025 (Part 21)-1983 RA 2002	200, Max.	YES
4	Alkalinity	mg/l	60.0	IS:3025 (Part 23)-1986 RA 2003	200, Max.	YES
5	Sulphate (as BaSO ₄)	mg/l	29.22	IS:3025 (Part 24)-1986 RA 2003	200, Max.	YES
6	Chloride (as Cl)	mg/l	15.60	IS:3025 (Part 32)-1988 RA 2003	250, Max.	YES
7	Nitrite (as NaNO ₂)	mg/l	0.00	IS:3025 (Part 34)-1988 RA 2003	-	-
8	Calcium (as Ca)	mg/l	7.21	IS:3025 (Part 40)-1991	75, Max.	YES
9	Magnesium (as Mg)	mg/l	10.12	IS:3025 (Part 46)-1994	30, Max.	YES
10	Fluoride (as F)	mg/l	0.69	IS:3025 (Part 60) -2008	1.0, Max.	YES

(3) Toxic Elements

1	Arsenic (as As)	ppm	[BDL, DL=0.005]	IS:3025 (Part II)-2004	0.01, Max.	YES
2	Iron (as Fe)	mg/l	0.017	IS:3025 (Part-2)-2004	0.3, Max.	YES

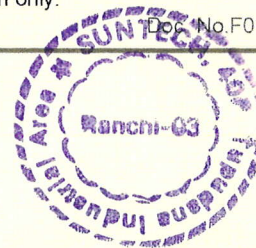
Done by:- Dheeraj, Sukumar, Satadal.

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Reviewed By: Ujala Bharti

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Preeti Varma
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TEST REPORT

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Date of receipt	13-03-2024	Date of Issue of Test Report	16-03-2024		
Customer's Name & Address	P & M AND HI-TECH INFRASTRUCTURE LLP P & M MALL HI-TECH CITY CENTRE MALL, 3rd FLOOR, BISTUPUR, JAMSHEDPUR, PIN CODE - 831001 (JHARKHAND)				
Customer's Letter No.	LETTER REF. NO.: - NIL				

SAMPLE DETAILS:

Sample No.	A41224	Material/ Item:	5 + 1 LITRE WATER SAMPLE IN SEALED JARICAN, BOTTLE
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TEST RESULTS

MATERIAL		DRINKING WATER		Discipline/ Group	BIOLOGICAL / WATER	
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits) As Per IS: 10500- 2012	Conformity

(4) Bacteriological Analysis

1	Escherichia coli	Detected/Not Detected/100 ml	Not Detected	IS 15185 : 2016/ ISO 9308 (P-1): 2014	Shall not be Detectable in any 100 ml Sample	YES
2	Coliforms	Detected/Not Detected/100 ml	Not Detected			YES

Done by:- Rechel.

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40 P, Tupudana Industrial Area,
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TEST REPORT

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Date of receipt	13-03-2024	Date of Issue of Test Report	16-03-2024
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Customer's Letter No.	LETTER REF. NO.: - NIL		

SAMPLE DETAILS:

Sample No.	A41224	Material/ Item:	5 + 1 LITRE WATER SAMPLE IN SEALED JARICAN, BOTTLE
Material Condition	SAMPLE IN SEALED JARICAN, BOTTLE	Environmental condition:	Laboratory Temperature at time Analysis : 27°C
Standard Applicable for testing	IS:3025, IS 15185 : 2016/ ISO 9308 (P-1): 2014	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory	Done by Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location	W.T.P. OUTLET (North: 22°47'14", East: 86°10'50")	
	Sampling Method/ Sampling Plan	ST/SOP/SAMPLING/ WATER/01	
	Environmental Condition	Temperature: 38°C	
Sample analysis Start date:	13-03-2024	Sample analysis End date:	16-03-2024

TEST RESULTS

MATERIAL		DRINKING WATER		Discipline/ Group	CHEMICAL / WATER		
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits) As Per IS:10500- 2012	Conformity	
(1) Physical Analysis							
1	Colour, Unit	Hazen	1.89	IS:3025 (Part 4)-1983	5 Hazen, Max.	YES	
2	Conductivity	µs/cm	212.00	IS:3025 (Part 14)-1983 RA' 2002	-	-	
(2) Chemical Analysis							
1	Nitrate (as NO ₃)	mg/l	0.44	IS:3025 (Part 34)-1988 RA 2003	45, Max.	YES	
2	Total Dissolved Solids (Non Filterable)	mg/l	218.00	IS:3025 (Part 16)-1984	500, Max.	YES	

Done by:- Dheeraj, Sukumar.

*****END OF REPORT*****

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Preeti Varma

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TC-5432

TEST REPORT

Test Report No.	ST/TR/24/05/481	ULR No.	TC54322400000981F	Job Code:	M0650524
Date of receipt	13-03-2024	Date of Issue of Test Report		17-03-2024	
Customer's Name & Address	P & M AND HI-TECH INFRASTRUCTURE LLP P & M MALL HI-TECH CITY CENTRE MALL, 3rd FLOOR, BISTUPUR, JAMSHEDPUR, PIN CODE - 831001 (JHARKHAND)				
Customer's Letter No.	REF. NO.: NIL				

SAMPLE DETAILS:

Sample No.	A41225	Material/ Item:	APPROXIMATELY 5 + 1 LITRE WATER SAMPLE IN SEALED JERRICAN, BOTTLE
Material Condition	SAMPLE IN SEALED JERRICAN, BOTTLE	Environmental condition:	Laboratory Temperature at time Analysis : 25°C
Standard Applicable for testing	IS:3025 (Part 11)-1983, IS:3025 (Part 17)-1984, IS:3025 (Part 44)-1993, IS:3025 (Part 58)-2006, IS:3025 (Part 16), IS:3025 (Part 39)	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF, SAMPLING DONE BY LABORATORY	Sampling Location		STP OUTLET [N-22°47'17"] - [E-86°10'50"]
	Sampling Method/ Sampling Plan		ST/SOP/SAMPLING/WATER/01
	Environmental Condition		Temperature 38°C
Sample analysis Start date:	13-03-2024	Sample analysis End date:	16-03-2024

TEST RESULTS

MATERIAL		EFFLUNENT WATER		Discipline/ Group	CHEMICAL / WATER	
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	PERMISSIBLE LIMITS *	Conformity
1	pH value	-	7.7	IS:3025 (Part 11)-1983 RA 2002	5.5 - 9.0	YES
2	Total Suspended Solids	mg/l	37.00	IS:3025 (Part 17)-1984 RA 2002	600, Max.	YES
3	Biochemical Oxygen Demand (BOD) – 3 days at 27 deg C	mg/l	2.20	IS:3025 (Part 44)-1993	350, Max.	YES
4	Chemical Oxygen Demand (COD)	mg/l	24.00	IS:3025 (Part 58)-2006	-	-
5	Total Dissolved Solids (Filterable)	mg/l	173.00	IS:3025 (Part 16)	-	-
6	Oil & Grease	mg/l	0.39	IS:3025 (Part 39)	20, Max.	YES

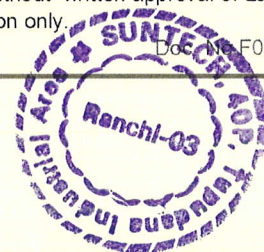
Note:-i)* GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS AS PER THE ENVIRONMENT PROTECTION RULES:-1986 SCHEDULE – VI (RULE 3A) pg:-545

Done by:- Ujala, Dheeraj.

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Preeti Varma

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Industrial & Analytical Testing Laboratory



TEST REPORT

Test Report No.	ST/TR/24/05/481	Job Code:	M0650524
Date of receipt	13-03-2024	Date of Issue of Test Report	17-03-2024
Customer's Name & Address	P & M AND HI-TECH INFRASTRUCTURE LLP P & M MALL HI-TECH CITY CENTRE MALL, 3rd FLOOR, BISTUPUR, JAMSHEDPUR, PIN CODE - 831001 (JHARKHAND)		
Customer's Letter No.	REF. NO.: NIL		

SAMPLE DETAILS:

Sample No.	A41225	Material/ Item:	APPROXIMATELY 5 + 1 LITRE WATER SAMPLE IN SEALED JERRICAN, BOTTLE
Material Condition	SAMPLE IN SEALED JERRICAN, BOTTLE	Environmental condition:	Laboratory Temperature at time Analysis : 25°C
Standard Applicable for testing	IS:3025 (Part 15)-1984	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF, SAMPLING DONE BY LABORATORY	Sampling Location	® STP OUTLET [N-22°47'17"] - [E-86°10'50"]	
	Sampling Method/ Sampling Plan	ST/SOP/SAMPLING/WATER/01	
	Environmental Condition	Temperature 38°C	
Sample analysis Start date:	13-03-2024	Sample analysis End date:	16-03-2024

TEST RESULTS

MATERIAL		EFFLUENT WATER		Discipline/ Group	CHEMICAL / WATER	
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	PERMISSIBLE LIMITS *	Conformity
1	Total Dissolved Solids (Non Filterable)	mg/l	210.00	IS:3025 (Part 15)-1984	-	-

Note:-i)* GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART-A : EFFLUENTS AS PER THE ENVIRONMENT PROTECTION RULES:-1986 SCHEDULE - VI (RULE 3A) pg:-545

Done by:- Ujala, Dheeraj.

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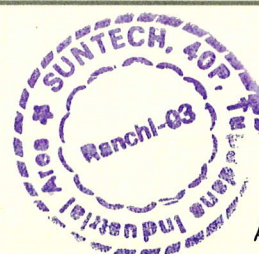
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