



TPL/SGRH/670033/QMD/47

Date: 13.10.21

To,
The Engineer-in-charge (Projects)
M/s Sir Ganga Ram Trust Society.
Old Rajender Nagar,
New Delhi-110060
Kind Attention: Mr. P.K Bansal (Project head)

Subject- Submission of Third Party Environment Testing Report.

Reference

1. Contract dated 25.10.2019; SUBIN-DL DL101150341780016983207R.
2. LOI dated 14.10.2019- SGRH/Project/Block B-1 & B-5.

Dear Sir,

This is reference to the subject mentioned please find enclosed for: -

1. Ambient Air Analysis, Report No- AEL/SGR/24092021/AA/01
2. Construction Water, Report No- AEL/SGR/24092021/W/01
3. Drinking Water, Report No- AEL/SGR/24092021/W/02
4. Ambient Noise Analysis, Report No- AEL/SGR/24092021/AN/01
5. Soil Analysis, Report No- AEL/SGR/24092021/S/01
6. STP Waste Water Analysis (Inlet), Report No- AEL/SGR/24092021/WW/01
7. STP Waste Water Analysis (Outlet), Report No- AEL/SGR/24092021/WW/02

This is for your kind review please.

Yours faithfully,

For Tata Projects Ltd

Authorized Signatory
Saurabh Bansal
Project-In-charge

TATA PROJECTS LIMITED

One Boulevard 2nd 3rd & 4th Floor, Lake Boulevard Street, Powai, Mumbai 400 076

Tel + 91 22 6740 2900 Fax + 91 22 2570 0174

e-mail tp@mumbai.tataproperties.com www.tataproperties.com

Registered Office: Nithona Towers -1 1-7-80 to 87 Prudharghast Road Secunderabad 500 003 Telangana India

Tel + 91 40 6623 8801 Fax + 91 40 6617 2535 e-mail tpl@tataprojects.com www.tataproperties.com CIN U43203TG1979PLC057431



ASIA ENVIRO LAB

(An ISO 9001:2015, 14001:2015, 45001:2018 & NABL Approved Lab)

Job Description : Environmental Testing, ETP/STP Manufacturing, ETP/STP Plant Operation Pollution NOC Etc.

Lab - H1-837, Near Pollution Control Board, RIICO Industrial Area, Bhiwadi, Distt. Alwar (Rajasthan)-301019

Ph. No. : 01493-294022, 09694566022, Email : asiaenvirolab@gmail.com, Website : www.asiaenvirolab.com

Test Report

Report No.: AEL/SGR/24092021/AA/01	Reporting Date: 29/09/2021
Project Name:- Construction of B-1 & B-5 Block and Allied Work for Sir Ganga Ram Hospital at Rajender Nagar, New Delhi-110060	Sample I'd : AEL/SGR/240921/AA/01 Date of Receiving : 24.09.2021 Period of testing : 24.09.2021 to 29.09.2021
Issue to:- TATA PROJECT LTD. M/S SIR GANGA RAM HOSPITAL Rajendra Nagar, New Delhi-110060	

SAMPLE PARTICULARS:

Type of the Sample	Ambient Air Sample
Date of Sampling	23.09.2021 to 24.09.2021
Point of Sample Collection	B1-Block
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

SAMPLE OBSERVATIONS:

Sampling flow rate (m ³ /min.)	1.18
Period of sampling (minutes)	1445.4
Total volume of air sampled (m ³)	1705.6

Sr. No.	Parameters	Unit	Results	Standards Limit as Per NAAQS	Test Protocol
1	Particulate Matter (PM ₁₀)	µg/m ³	96.4	100	IS: 5182,(P-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	54.2	60	As per CPCB Guidelines
3	Sulphur Dioxide (SO ₂)	µg/m ³	18.4	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	42.9	80	IS: 5182,(P-6)
5	Ammonia (NH ₃)	µg/m ³	14.2	400	As per CPCB Guidelines

Checked By

Authorized Signatory

Notes: 1. The result listed refer only to the tested samples and applicable parameters.
2. Sample will be destroyed one month from the date of issue of test certificate.
3. Any complaints about this report should be communicated within 7 days of issue of this report.
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Issue to:- TATA PROJECT LTD. M/S SIR GANGA RAM HOSPITAL Rajendra Nagar, New Delhi-110060	

SAMPLE PARTICULARS:	
Type of the Sample	Construction Water Sample
Date of Sample Receiving	23.09.2021
Sample Location	From Tank at B-1 Block
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

TEST RESULTS:					
Sr. No.	Parameters	Unit	Results	Construction Water Specifications (As per IS-456 : 2000 (RA-2016))	Test Protocol
1.	Chloride, (as Cl)	mg/l	132.9	2000 Max. For Plain Concrete & 500 Max. for Reinforced Concrete work	APHA 23 rd Ed. 4500 Cl B
2.	Total Suspended Solids	mg/l	< 5	2000 Max.	APHA 23 rd Ed. 4500 H B
3.	Sulphate, (as SO ₃)	mg/l	46.2	400 Max.	APHA 23 rd Ed. 4500 SO ₄ E
4.	Organic Matter	mg/l	118.1	200 Max.	APHA 23 rd Ed. 2540 C
5.	Inorganic Matter	mg/l	196.4	3000 Max.	APHA 23 rd Ed. 2540 C

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Test Report

Report No.: AEL/SGR/24092021/W/02	Reporting Date: 29/09/2021
Project Name:- Construction of B-1 & B-5 Block and Allied Work for Sir Ganga Ram Hospital at Rajender Nagar, New Delhi-110060	Sample I'd : AEL/SGR/240921/W/02 Date of Receiving : 24.09.2021 Period of testing : 24.09.2021 to 29.09.2021
Issue to:- TATA PROJECT LTD. M/S SIR GANGA RAM HOSPITAL Rajendra Nagar, New Delhi-110060	

SAMPLE PARTICULARS:	
Type of the Sample	Drinking Water
Date of Sample Receiving	23.09.2021
Point of Sample Collection	From R.O Outlet at Block B-1
Sample Collected By	Lab Rep.
Purpose of Analysis	Analysis of Sample

TEST RESULTS:

Sr. No.	Parameters	Unit	Results	Drinking Water Specifications (As per IS-10500)		Test Protocol
				Desirable Limits	Permissible Limits in the absence of better alternate source	
1	Colour	Hazen	<5	5 max.	15 max.	APHA 23 rd Ed., 2120 B
2	Odour	--	Agreeable	Agreeable	Agreeable	IS-3025(P-5)
3	Taste	--	Agreeable	Agreeable	Agreeable	IS-3025(P-7)
4	Turbidity	NTU	<1	1 max.	5 max.	APHA 23 rd Ed., 2130 B
5	pH	--	7.45	6.5 - 8.5	No relaxation	APHA 23 rd Ed., 4500 H B
6	Total Hardness, (as CaCO ₃)	mg/l	36.2	200 max.	600 max.	APHA 23 rd Ed., 2340 C
7	Iron, (as Fe)	mg/l	<0.05	0.30 max.	No relaxation.	APHA 23 rd Ed., 3111
8	Chloride, (as Cl)	mg/l	18.2	250 max.	1000 max.	APHA 23 rd Ed., 4500 Cl B
9	Residual Free Chlorine	mg/l	N.D.	0.20 max.	1 max.	IS-3025(P-26)
10	Calcium Hardness, (as Ca)	mg/l	6.9	75 max.	200 max.	APHA 23 rd Ed., 3500 Ca A
11	Magnesium Hardness, (as Mg)	mg/l	4.6	30 max.	100 max.	APHA 23 rd Ed., 3500 Mg B
12	Total Dissolved Solids	mg/l	91.0	500 max.	2000 max.	APHA 23 rd Ed., 2540 G
13	Sulphate, (as SO ₄)	mg/l	4.9	200 max.	400 max.	APHA 23 rd Ed., 4500 SO ₄ E
14	Fluoride, (as F)	mg/l	0.22	1.0 max.	1.5 max.	APHA 23 rd Ed., 4500
15	Total Alkalinity, (as CaCO ₃)	mg/l	33.9	200 max.	600 max.	APHA 23 rd Ed., 2320 A
16	Chromium Total, (as Cr)	mg/l	<0.05	0.05 max.	No relaxation	IS 3025 (P- 52)
17	Hexa Chromium, (as Cr+6)	mg/l	<0.05	0.05 max.	No relaxation	APHA 23 rd Ed., 3500 Cr B
18	Nitrate, (as NO ₃)	mg/l	3.2	45 max.	No relaxation	IS-3025(P-34)
19	Zinc, (as Zn)	mg/l	<0.1	5 max.	15 max.	IS-3025(P-49)
20	Phenolic Compounds, (as C ₆ H ₅ OH)	mg/l	<0.001	0.001 max.	0.002 max.	IS-3025(P-43)

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Report No.: AEL/SGR/24092021/W/02

Continue Page 02

21	Copper, (as Cu)	mg/l	<0.05	0.05 max.	1.50 max.	IS-3025(P-42)
22	Manganese, (as Mn)	mg/l	<0.1	0.10 max.	0.30 max.	APHA 23 rd Ed. 3500 Mn B
23	Arsenic, (as As)	mg/l	<0.01	0.01 max.	0.05 max.	IS-3025(P-37)
24	Aluminum, (as Al)	mg/l	N.D.	0.03 max.	0.20 max.	IS-3025(P-55)
25	Ammonia (as total ammonia-N)	mg/l	N.D.	0.5 max.	No relaxation	IS 3025 (P-34)
26	Lead, (as Pb)	mg/l	N.D.	0.01 max.	No relaxation	APHA 23 rd Ed.
27	Cadmium, (as Cd)	mg/l	N.D.	0.003 max.	No relaxation	IS-3025(P-41)
28	Selenium, (as Se)	mg/l	N.D.	0.01 max.	No relaxation	IS-3025(P-56)
29	Boron, (as B)	mg/l	< 0.2	0.5 max.	1.0 max.	APHA 23 rd Ed. 4500 B C
30	Mercury, (as Hg)	mg/l	N.D.	0.001 max.	No relaxation	IS-3025(P-48)
Bacteriological Test Results						
31	Coli form organisms /100 ml(MPN)	--	< 2	Shall not be detectable in any 100 ml sample		IS-1622:1981
32	E-Coli/ 100 ml	--	Absent	Shall not be detectable in any 100 ml sample		IS-1622:1981

Remarks- N.D- Not Detectable

Checked By

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Issue to:- TATA PROJECT LTD, M/S SIR GANGA RAM HOSPITAL Rajendra Nagar, New Delhi-110060	

SAMPLE PARTICULARS:	
Type of the Sample	Noise Level Testing (Ambient Noise)
Date of Sampling	23.09.2021 to 24.09.2021
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Sampling Location	Units	Results		Protocol Used
			Day	Night	
1.	B1- Block	dB(A)	64.2	53.9	IS 9989 (By Calculation):2014

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) 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

Note: * Day time mean 6:00 am to 10:00 pm

** Night Time mean 10:00 pm to 6:00 am

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Test Report

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Issue to:- TATA PROJECT LTD. M/S SIR GANGA RAM HOSPITAL Rajendra Nagar, New Delhi-110060	

SAMPLE PARTICULARS:	
Type of the Sample	Soil Sample
Date of Sampling	23.09.2021
Sampling Location	B1-Block
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

Sr. No.	Parameters	Unit	Results	Test Protocol
1	pH (at 25 °C) (1:2.5 Soil Water Sus.)	--	7.26	IS : 2720 (P-26)
2	Conductivity (1:2 Soil Water Sus.)	µs/cm	482	IS: 14767, 2000
3	Colour	--	Brownish	USDA Method
4	Texture	--	Sandy Loam	
5	Moisture	%	14.2	IS 2720 (Part-2)
6	Sand	%	50.8	USDA Method
7	Clay	%	30.4	USDA Method
8	Silt	%	18.8	USDA Method
9	Calcium (as Ca)	mg/kg	141.9	USDA Method
10	Magnesium (as Mg)	mg/kg	42.7	USDA Method
11	Available Nitrogen (as N)	mg/kg	14.4	IS: 14684, 1999

Note: 1. The result listed refer only to the tested samples and applicable parameters.



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Report No.: AEL/SGR/Z409Z021/S/01

Continue Page 02

12.	Phosphorus (as P)	mg/kg	25.8	USDA, APHA-4500 PC
13.	Cation Exchange Capacity	Meq/100 gm	9.8	USDA Method
14.	Lead (as Pb)	mg/kg	2.4	USDA Method
15.	Cadmium (as Cd)	mg/kg	0.65	USDA Method
16.	Porosity	%	27.4	USDA Method
17.	Zinc (as Zn)	mg/kg	15.7	USDA Method
18.	Organic Matter	%	0.81	IS : 2720 (P-22, 1972)
19.	Bulk Density	gm/cc	1.25	USDA Method
20.	Sodium as Na	mg/kg	110.4	USDA Method
21.	Potassium as K	mg/kg	24.2	USDA Method
22.	Nitrate (as NO ₃)	mg/kg	15.8	USDA Method
23.	Chloride (as Cl)	mg/kg	99.2	USDA Method
24.	Total Alkalinity	mg/kg	173.1	USDA Method
25.	Manganese (as Mn)	mg/kg	N.D.	USDA Method
26.	Copper (as Cu)	mg/kg	N.D.	USDA Method
27.	Nickel (as Ni)	mg/kg	N.D.	USDA Method
28.	Lithium (as Li)	mg/kg	N.D.	USDA Method

Remarks: - N.D- Not Detectable

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Issue to:- TATA PROJECT LTD. M/S SIR GANGA RAM HOSPITAL Rajendra Nagar, New Delhi-110060	

SAMPLE PARTICULARS:	
Type of the Sample	Waste Sewage Water Sample
Date of Sample Receiving	23.09.2021
Location	STP Plant near SSRB Block Underground Parking
Point of Sample Collection	STP Inlet
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

TEST RESULTS:				
Sr. No.	Parameters	Unit	Results	Test Protocol
1	pH		7.45	APHA 23 rd Ed. 4500 H B
2	Chemical Oxygen Demand(COD)	mg/l	424.7	APHA 23 rd Ed. P-5220 B
3	Bio-Chemical Oxygen Demand (BOD) at 27°C for 3 days	mg/l	150.9	IS-3025 (P-44)
4	Total Suspended Solids	mg/l	112.0	APHA 23 rd Ed. 2540 D
5	Oil & Grease	mg/l	10.4	IS-3025 (P-39)

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Project Name:- Construction of B-1 & B-5 Block and Allied Work for Sir Ganga Ram Hospital at Rajender Nagar, New Delhi-110060	Sample Id : AEL/SGR/240921/WW/02 Date of Receiving : 24.09.2021 Period of testing : 24.09.2021 to 29.09.2021
Issue to:- TATA PROJECT LTD. M/S SIR GANGA RAM HOSPITAL Rajendra Nagar, New Delhi-110060	

SAMPLE PARTICULARS:

Type of the Sample	Waste Sewage Water Sample
Date of Sample Receiving	23.09.2021
Location	STP Plant near SSRB Block Underground Parking
Point of Sample Collection	STP Outlet
Sample Collected By	Lab Rep.
Purpose of Analysis	Monitoring

TEST RESULTS:

Sr. No.	Parameters	Unit	Results	Standards Limit as per CPCB	Test Protocol
1	pH	--	7.53	5.5-9.0	APHA 23 rd Ed. 4500 H B
2	Chemical Oxygen Demand(COD)	mg/l	90.6	250	APHA 23 rd Ed. P-5220 B
3	Bio-Chemical Oxygen Demand (BOD) at 27°C for 3 days	mg/l	18.4	30	IS-3025 (P-44)
4	Total Suspended Solids	mg/l	21.0	100	APHA 23 rd Ed. 2540 D
5	Oil & Grease	mg/l	2.8	10	IS-3025 (P-39)

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ENVIRO-TECH SERVICES

An Analytical Laboratory



ISO 9001/14001/45001

(An ISO 9001:2015, 14001:2015 and 45001:2018 Certified Company)

Plot No. 1/32, South Side G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO.: ETS/1136-31/07/2021

DATE OF REPORT: 26.07.2021

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : SIR GANGARAM HOSPITAL
OLD RAJENDRA NAGAR KAROL BAGH,
NEW DELHI

Date of Monitoring : 16.07.2021

Analysis Start Date : 17.07.2021

Analysis End Date : 20.07.2021

Duration Of Monitoring : 16.07.2021 To 17.07.2021

Time Of Monitoring : 10.30 AM To 10.30 AM (CO & O₃ for 1.0 Hrs.)

Sample ID No : 1136-31

Sampling Done By : ETS STAFF

Sampling Location : NEAR AUDITORIUM

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 34.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters, (PM ₁₀)	µg/m ³	81.1	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters, (PM _{2.5})	µg/m ³	36.4	For 24 Hrs.=60	ETS/STP/AIR-03
3	Sulphur Dioxide, (SO ₂)	µg/m ³	16.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide, (NO ₂)	µg/m ³	30.7	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Carbon Monoxide, (CO)	mg/m ³	0.41	For 8 Hrs.=2 / For 1 Hrs.=4	IS 5182 (Part-10)
6	Ammonia, (NH ₃)	µg/m ³	N.D	For 24 Hrs.=400	ETS/STP/AIR-08
7	Arsenic, (As)	ng/m ³	N.D	For Annual=06	CPCB, Vol.-1, Pg.-48
8	Benzene, (C ₆ H ₆)	µg/m ³	N.D	For 24 Hrs.=5	IS 5182 (Part-11)
9	Benzo (a) Pyrene (BaP)	ng/m ³	N.D	For Annual=01	IS 5182 (Part-12)
10	Ozone, (O ₃)	µg/m ³	18.0	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
11	Lead, (Pb)	µg/m ³	N.D	For 24 Hrs.=1	IS 5182 (Part-22)
12	Nickel, (Ni)	ng/m ³	N.D	For Annual=20	CPCB, Vol.-1, Pg.-48

REMARK-N.D-Not Detectable

*****End of Test Report*****

Page 1 of 1

For Enviro-Tech Services

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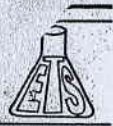


Md. Humraj
Quality Manager
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. No complaint will be entertained if received after 7 days of issue of test report.



ENVIRO-TECH SERVICES

An Analytical Laboratory

(An ISO 9001:2015, 14001:2015 and 45001:2018 Certified Company)



ISO 9001/14001/45001

ETS-LAB

Plot No. 1/32, South Side G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO.: ETS/1136-32/07/2021

DATE OF REPORT: 26.07.2021

NOISE MONITORING REPORT

Name And Address of Customer : SIR GANGARAM HOSPITAL
OLD RAJENDRA NAGAR KAROL BAGH,
NEW DELHI

Date of Monitoring : 16.07.2021

Monitoring Start Date : 16.07.2021

Monitoring End Date : 17.07.2021

Duration Of Monitoring : 24 HOURS

Sample ID No : 1136-32

Monitoring Done By : ETS STAFF

Sampling Location : NEAR AUDITORIUM

Sampling Method : ETS/STP/NOISE-01

Category Of Area : SILENCE AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	44.6	50	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	32.3	40	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****

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Md. Humraj
Quality Manager

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