

**HINDUSTAN COLLEGE OF SCIENCE AND TECHNOLOGY
FARAH, MATHURA
(affiliated to Dr A.P.J.Abdul Kalam Technical
University,Lucknow,U.P)**



KEY INDICATOR 7.1.3

7.1.3 (1)

Environment Audit

HINDUSTAN COLLEGE OF SCIENCE AND TECHNOLOGY

Meeting Circular

HCST/IQAC/2017-18/ 11

Date:-09/02/2018

All The IQAC members and invitee members are here by informed that IQAC meeting will be held on February 10, 2018 in the Chairman Conference room at 01:30 PM. All committee members are requested to present in meeting.

Agenda of the Meeting

1. Endorsement of previous meeting
2. Environment and energy
3. Clean and Green Campus

Following members are requested to present in the meeting

1	All IQAC committee members	
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Dr. Harendra Singh

(Director, IQAC)

Director
Internal Quality Assurance
Hindustan College of Science & Technology
Farah, Mathura


REGISTRAR
HINDUSTAN COLLEGE OF
SCIENCE & TECHNOLOGY
FARAH, MATHURA


Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

HINDUSTAN COLLEGE OF SCIENCE AND TECHNOLOGY

Meeting Notes

HCST/IQAC/2017-18/ 11

Date:- 10/02/2018

Venue: - Ground Floor Conference Room, HCST

Agenda of the Meeting

1. Endorsement of previous meeting
2. Environment and energy
3. Clean and Green Campus

Members of Committee present in the meeting

1	Dr. Harendra Singh	(Director, IQAC)
2	Dr. M.S.Gaur	(Member)
3	Dr. Mamta Sharma	(Member)
4	Dr. Sandeep Agarwal	(Member)
5	Mr. Kapil Gupta	(Member)
6	Mr. Vijay Katta	(Member)
7	Dr. Suruchi	(Member)

iQAC meeting was hold at 01:00 PM on 10/02/2018. As discussed in previous meeting feedback form is send to respective coordinators.

Dr. Mamta Sharma has proposed the policy documents for


- a. Environment and energy
- b. Clean and Green Campus.

IQAC has approved the policy documents proposed by Dr. Mamta Sharma.


Dr. Harendra Singh

(Director, IQAC)

Director
Internal Quality Assurance Cell
Hindustan College of Science & Technology
Farah, Mathura


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POLICY DOCUMENT FOR ENVIRONMENT AND ENERGY

Energy is the most important thing on this earth; next to time and this is the most wasted resource. To see that Energy efficient systems are run in the organization, it becomes the duty of the management committee to come with a clear policy towards its implementation. The following are the points that encompass the environment and energy policy

- To assess our energy usage and measure its impact on environment
- To implement energy efficient lighting (LEDs) and Alternate energy sources (Solar Plant) in the campus.
- To reduce the emission of air pollutants by encouraging bicycles, public transport system; electrical vehicles and use of pedestrian friendly foot paths
- To implement all the points that is mentioned in the Clean & Green Campus Policy and the waste management policy to keep the surroundings and the overall environment pollution free.
- To conduct regular energy audit and take necessary steps in maintenance, wheeling to grid and increasing the energy efficiency
- To create awareness among the employees and students of the organization about the above points by conducting events and encouraging all to be a part of this genuine cause.


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Hindustan College of Science & Technology
Farah, Mathura



Hindustan College of Science and Technology

Farah, Mathura

Environment Audit-2018

- 1) Ambient air quality monitoring(near main gate)
- 2) Ambient air quality monitoring(near girls hostel gate)
- 3) Ambient Noise(near main gate)
- 4) Ambient Noise(near girls hostel gate)
- 5) DG Stack monitoring DG SET 1
- 6) DG Stack monitoring DG SET 2
- 7) STP inlet water
- 8) STP outlet water
- 9) Drinking Water
- 10) Bore well water
- 11) Bore well water
- 12) Soil sample


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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No.	AAL ENV-20180612003
Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	12/06/2018
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Starting:	12/06/2018
Purpose of Monitoring:	Self Assessment	Date of Completion:	16/06/2018
		Date of Reporting:	16/06/2018
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Monitoring Procedure	: As per IS-5182, P-14
Location of Sampling Point	: Near Main Gate
Sampling Started on	: 10:10 AM (11/06/2018)
Sampling Completed on	: 10:10 AM (12/06/2018)
Actual Time of Sampling (Hrs)	: 24 hrs.
Average flow Rate for particulate matter (m ³ /min.)	: 1.15
Total Volume of air sampled for particulate matter (m ³)	: 1656

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	51.61	60	SOP-(AAL/SOP/ENV/002)/ CPCB Guideline
2	Particulate Matter, PM ₁₀	µg/m ³	94.22	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	14.30	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	28.17	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m ³	<0.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff, 2003
6	Ozone (as O ₃)	µg/m ³	21.40	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	20.50	400	Indo-Phenol Blue Method
8	Lead (as Pb)	µg/m ³	0.09	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic* (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Benzo a-pyrene* (Bap)	ng/m ³	<1.0	01	CPCB/GC Method

End of Report


Amtesh Kumar
(SR. ANALYST)
Authorised Signatory

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Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	12/06/2018
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Starting:	12/06/2018
Purpose of Monitoring:	Self Assessment	Date of Completion:	16/06/2018
		Date of Reporting:	16/06/2018
		Sampling Done By:	AAL


TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Monitoring Procedure	: As per IS-5182, P-14
Location of Sampling Point	: Near Girl Hostel Gate
Sampling Started on	: 10:30 AM (11/06/2018)
Sampling Completed on	: 10:30 AM (12/06/2018)
Actual Time of Sampling (Hrs)	: 24 hrs.
Average flow Rate for particulate matter (m ³ /min.)	: 1.1
Total Volume of air sampled for particulate matter (m ³)	: 1584

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	44.11	60	SOP-(AAL/SOP/ENV/002)/ CPCB Guideline
2	Particulate Matter, PM ₁₀	µg/m ³	82.75	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	13.50	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	28.70	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m ³	<0.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	21.20	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	20.40	400	Indo-Phenol Blue Method
8	Lead (as Pb)	µg/m ³	0.08	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic* (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene* (Bap)	ng/m ³	<1.0	01	CPCB/GC Method

End of Report


Amlesh Kumar
(SR. ANALYST)
Authorised Signatory

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Sample Description:	Ambient Noise	Date of Receiving:	12/06/2018
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Starting:	12/06/2018
Sampling Location:	Near Main Gate	Date of Completion:	16/06/2018
Purpose of Monitoring:	Self Assessment	Date of Reporting:	16/06/2018
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	39.7	-	-	-
	L10	dB(A)	66.2	-	-	-
	L50	dB(A)	56.2	-	-	-
	L90	dB(A)	52.5	-	-	-
	Leq	dB(A)	62.6	-	-	-
	Lmax	dB(A)	70.4	-	-	-
	Leq-Day	dB(A)	63.1	A: Industrial Area B: Commercial Area C: Residential Area D: Silence Zone	75 65 55 50	70 55 45 40
	Leq-Night	dB(A)	51.7			

End of Report


Amlesh Kumar
(SR. ANALYST)
Authorised Signatory

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No.	AAL ENV-20180612006
Sample Description:	Ambient Noise	Date of Receiving:	12/06/2018
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Starting:	12/06/2018
Sampling Location:	Near Girl Hostel Gate	Date of Completion:	16/06/2018
Purpose of Monitoring:	Self Assessment	Date of Reporting:	16/06/2018
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.	
				Category of Area / Zone	Day Time Night Time
1	Noise Level				
	Lmin	dB(A)	38.1	-	-
	L10	dB(A)	64.9		
	L50	dB(A)	56.3		
	L90	dB(A)	46.5		
	Leq	dB(A)	61.8	-	-
	Lmax	dB(A)	68.6	-	-
	Leq-Day	dB(A)	62.5	A: Industrial Area	75 70
	Leq-Night	dB(A)	48.7	B: Commercial Area	65 55
				C: Residential Area	55 45
			D: Silence Zone	50 40	

End of Report


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(SR. ANALYST)
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Report No. AAL ENV-20180612007

Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Distt. Mathura -281 122(UP)

Sample Description: D G Stack Emission

Date of Monitoring: 11/06/2018

Sampling Method: IS:11255 (Part-1 to Part-7)

Purpose of Monitoring: Self Assessment

Date of Receiving: 12/06/2018

Date of Starting: 12/06/2018

Date of Completion: 16/06/2018

Date of Reporting: 16/06/2018

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section

Stack Identification : Stack Attached to D G

Source of Emission : D G Set

Capacity : 500 KVA

Type of Stack : Metal

Diameter of Stack : 8"

Height of Stack from Ground Level : 23m

Height from Roof Level : -

Height at Which Sampling Port : 10m

Product Manufacturing : College

Type of Fuel Used : HSD

Normal Operating Schedule : As per requirement

Duration of Monitoring : 30 min.

Emission Control (if any) : Nil

Observations

Ambient Temperature (°C) : 38

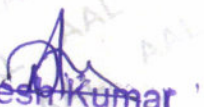
Stack Temperature (°C) : 220

Velocity (m/s) : 10.50

Quantity of emission (Nm³/hr.) : 298.8

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (as PM)	g/kw-hr	0.12	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	1.05	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	3.45	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (as CO)	g/kw-hr	1.52	3.5	By GC
5	Hydrocarbon* (as HC)	g/kw-hr	0.82	1.3	By GC

End of Report


Amlesh Kumar
(SR. ANALYST)
Authorised Signatory

Note: (*) The parameters are not covered under N/CPL scope.

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Report No. AAL ENV-20180612008

Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Distt. Mathura -281 122(UP)

Sample Description: D G Stack Emission

Date of Monitoring: 11/06/2018

Sampling Method: IS:11255 (Part-1 to Part-7)

Purpose of Monitoring: Self Assessment

Date of Receiving: 12/06/2018

Date of Starting: 12/06/2018

Date of Completion: 16/06/2018

Date of Reporting: 16/06/2018

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section

Stack Identification : Stack Attached to D G

Source of Emission : D G Set

Capacity : 1010 KVA

Type of Stack : Metal

Diameter of Stack : 12"

Height of Stack from Ground Level : 23m

Height from Roof Level : -

Height at Which Sampling Port : 10m

Product Manufacturing : College

Type of Fuel Used : HSD

Normal Operating Schedule : As per requirement

Duration of Monitoring : 30 min.

Emission Control (if any) : Nil

Observations

Ambient Temperature(°C) : 38


Stack Temperature (°C) : 178

Velocity (m/s) : 9.09

Quantity of emission (Nm³/hr.) : 1361.8

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	44.28	75	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	mg/Nm ³	20.10	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	241.62	710	IS 11255(P-7)-2005
4	Carbon Monoxide (as CO) At 15%O ₂	mg/Nm ³	13.11	150	By GC
5	Non Methane Hydrocarbon* (as C) At 15% O ₂	mg/Nm ³	11.58	100	By GC

End of Report


Amtesh Kumar
(SR. ANALYST)
Authorised Signatory

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Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
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Report No. AAL WQT-20180612005

Date of Receiving: 12/06/2018

Date of Starting: 12/06/2018

Date of Completion: 16/06/2018

Date of Reporting: 16/06/2018

Sample Description: One Sample described as **Waste Water (Inlet)**,
was received

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULTS

S. No.	Test parameters	Unit	Results	Testing Method
1	pH Value	-	7.21	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	174.0	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	7.6	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	127.0	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	462.0	IS 3025(P-58)-2006

End of Report


Ashutosh Srivastava
(SR. ANALYST)
Authorised Signatory

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Farah, Distt. Mathura -281 122(UP)

Report No. AAL WQT-20180612006

Date of Receiving: 12/06/2018

Date of Starting: 12/06/2018

Date of Completion: 16/06/2018

Date of Reporting: 16/06/2018

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle


Sample Collected By: AAL

Sample Description: One Sample described as **Waste Water (Outlet)**, was received

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirement as per CPCB Guideline		Testing Method
				Into Inland Surface Water	On land for Irrigation	
1	pH Value	-	7.88	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	28.0	100 Max.	200 Max.	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	21.0	30 Max.	100 Max.	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	112.0	250 Max.	-	IS 3025(P-58)-2006

End of Report


Ashutosh Srivastava
(SR. ANALYST)
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Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Distt. Mathura -281 122(UP)

Report No. AAL WQT-20180612003

Date of Receiving: 12/06/2018

Date of Starting: 12/06/2018

Date of Completion: 16/06/2018

Date of Reporting: 16/06/2018

Sample Description: One Sample described as Drinking Water (R O),
was received.

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULTS

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Desirable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983	Yes
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-1984	Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	pH Value	-	6.95	6.5 - 8.5	6.5 - 8.5	IS 3025(P-11)-1983	Yes
6	Total Hardness(as CaCO ₃)	mg/l	23.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
7	Iron (as Fe)	mg/l	<0.1	0.3 Max.	0.3 Max.	IS 3025(P-53)-2003	Yes
8	Chlorides (as Cl)	mg/l	38.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	-
10	Total Dissolved Solids	mg/l	98.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
11	Fluoride (as F)	mg/l	<0.01	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
12	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100ml of sample.		IS 1622-1981	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012.

End of Report

Vinay Dixit
(Microbiologist)

Authorized Signatory

Ashutosh Srivastava
(SR. ANALYST)

Authorized Signatory

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Issued To: M/s Hindustan College of Science & Technology
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Report No. AAL WQT-20180612004

Date of Receiving: 12/06/2018

Date of Starting: 12/06/2018

Date of Completion: 16/06/2018

Date of Reporting: 16/06/2018

Sample Description: One Sample described as Bore well Water, was received.

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULTS

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Desirable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983	Yes
3	pH Value	-	7.48	6.5 - 8.5	6.5 - 8.5	IS 3025(P-11)-1983	Yes
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-1984	Yes
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
6	Total Dissolved Solids	mg/l	1862.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
7	Aluminium (as Al)	mg/l	ND	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003	Yes
8	Anionic Detergent (as MABS)	mg/l	ND	0.2 Max.	1.0 Max.	Annex K of IS 13428-2005	Yes
9	Boron (as B)	mg/l	ND	0.5 Max.	0.5 Max.	IS 3025(P-57)-2005	Yes
10	Calcium (as Ca)	mg/l	136.0	75 Max.	200 Max.	IS 3025(P-40)-1991	Yes
11	Chlorides (as Cl)	mg/l	937.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
12	Copper (as Cu)	mg/l	ND	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992	Yes
13	Fluoride (as F)	mg/l	0.13	1 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
14	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	-
15	Iron (as Fe)	mg/l	0.18	0.3 Max.	0.3 Max.	IS 3025(P-53)-2003	Yes
16	Magnesium (as Mg)	mg/l	54.0	30 Max.	100 Max.	IS 3025(P-46)-1994	Yes
17	Manganese (as Mn)	mg/l	ND	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
18	Mineral Oil	mg/l	ND	0.5 Max.	0.5 Max.	IS 3025(P-39)-1991	Yes

Vinay Dixit
(Microbiologist)
Authorized Signatory

Ashutosh Srivastava
(SR. ANALYST)
Authorized Signatory

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Report No. AAL WQT-20180612004

Date of Receiving: 12/06/2018
Date of Starting: 12/06/2018
Date of Completion: 16/06/2018
Date of Reporting: 16/06/2018
Sample Quantity: 1 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

Sample Description: One Sample described as Bore well Water, was received.

TEST RESULTS

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Desirable Limit	Permissible Limit		
19	Nitrate (as NO ₃)	mg/l	7.6	45 Max.	100 Max.	IS 3025(P-34)-1988	Yes
20	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	<0.001	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
21	Sulphate (as SO ₄)	mg/l	289.0	200 Max.	400 Max.	IS 3025(P-24)-1986	Yes
22	Total Alkalinity (as CaCO ₃)	mg/l	372.0	200 Max.	600 Max.	IS 3025(P-23)-1986	Yes
23	Total Hardness (as CaCO ₃)	mg/l	562.0	200 Max.	600 Max.	IS 3025(P-21)-2009	Yes
24	Zinc (as Zn)	mg/l	0.11	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
25	Cadmium (as Cd)	mg/l	ND	0.003 Max.	0.003 Max.	IS 3025(P-41)-1992	Yes
26	Lead (as Pb)	mg/l	ND	0.01 Max.	0.01 Max.	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/l	ND	0.001 Max.	0.001 Max.	IS 3025(P-48)-1992	Yes
28	Nickel (as Ni)	mg/l	ND	0.02 Max.	0.02 Max.	IS 3025(P-54)-2003	Yes
29	Total Arsenic (as As)	mg/l	ND	0.01 Max.	0.05 Max.	IS 3025(P-37)-1988	Yes
30	Total Chromium (as Cr)	mg/l	ND	0.05 Max.	0.05 Max.	IS 3025(P-52)-2003	Yes
31	E.Coli	Per 100ml	Absent	Shall not be detectable any 100 ml sample		IS 1622-1981	Yes
32	Total Coliform	Per 100ml	Absent	Shall not be detectable any 100 ml sample		IS 1622-1981	Yes

ND - Not Detected

Remarks: The above tested parameters meet the requirement of IS: 10500:2012 for permissible limit.

End of Report

Vinay Dixit
(Microbiologist)

Authorized Signatory

Ashutosh Srivastava
(SR. ANALYST)
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Report No. AAL ENV-20180612008

Sample Description: One sample described as Soil, was received.

Date of Receiving: 12/06/2018

Date of Starting: 12/06/2018

Date of Completion: 16/06/2018

Date of Reporting: 16/06/2018

Sample Qty. 2 Kgs.


Sample Packing Condition: Polythene Bag

Sample Collected By: AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Test Method
1	pH	-	7.44	IS 2720(P-26)-1987, Reaff-2007
2	Conductivity	µS/cm	574.4	IS 2720(P-21)-1977, Reaff-2006
3	Sodium (as Na)	mg/kg	238.6	AAL/SOP/ENV/010-D
4	Potassium (as K)	mg/kg	165.4	AAL/SOP/ENV/010-D
5	Total Kjeldahl Nitrogen	% by mass	0.095	AAL/SOP/ENV/010-C
6	Phosphorus (as P)	mg/kg	83.25	AAL/SOP/ENV/010-G
7	Organic Matter	% by mass	0.54	IS 2720(P-22)-1972, Reaff:2005
8	Calcium (as Ca)	% by mass	0.26	AAL/SOP/ENV/010-B
9	Magnesium (as Mg)	mg/kg	716.4	AAL/SOP/ENV/010-B
10	Soil Gran Size Analysis/Texture (% by mass)			
(a)	Sand	% by mass	71.25	IS 2720(P-4)-1985, Reaff. 2001
(b)	Silt	% by mass	15.50	IS 2720(P-4)-1985, Reaff. 2001
(c)	Clay	% by mass	13.25	IS 2720(P-4)-1985, Reaff. 2001

End of Report


Amtesh Kumar
(SR. ANALYST)
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Hindustan College of Science and Technology

Farah, Mathura

Environment Audit-2019

1. Ambient air quality monitoring(near main gate)
2. Ambient air quality monitoring(near STP)
3. Ambient Noise(near main gate)
4. Ambient Noise(at girls hostel gate)
5. DG Stack monitoring DG SET 1
6. DG Stack monitoring DG SET 2
7. STP inlet water
8. STP outlet water
9. Drinking Water
10. Borewell water
11. STP Sludge
12. Soil sample


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Report No. AAL ENV-20191225019

Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Distt. Mathura -281 122(UP)

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 24/12/2019 to 25/12/2019

Purpose of Monitoring: Self Assessment

Date of Receiving: 25/12/2019
Date of Starting: 25/12/2019
Date of Completion: 30/12/2019
Date of Reporting: 30/12/2019
Sampling Done By: AAL

TEST RESULT

Sampling Details:

Type of Monitoring : Ambient Air Quality Monitoring
Monitoring Procedure : As per IS-5182, P-14
Location of Sampling Point : Near Main Gate
Sampling Started on : 12:05 PM (24/12/2019)
Sampling Completed on : 12:05 PM (25/12/2019)
Actual Time of Sampling (Hrs) : 24 Hrs.
Average flow Rate for particulate matter (m³/min.) : 1.15
Total Volume of air sampled for particulate matter (m³) : 1656

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	53.5	60	SOP-(AAL/SOP/ENV/002)/ CPCB Guideline
2	Particulate Matter, PM ₁₀	µg/m ³	87.3	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	9.5	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	36.2	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m ³	<0.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	Indo-Phenol Blue Method
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Benzo a-pyrene (Bap)	ng/m ³	<1.0	01	CPCB/GC Method

****End of Report****

Amlash Kumar
(SR ANALYST)
Authorised Signatory

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Report No. AAL ENV-20191225020

Issued To: M/s Hindustan College of Science & Technology
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Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 24/12/2019 to 25/12/2019

Purpose of Monitoring: Self Assessment

Date of Receiving: 25/12/2019
Date of Starting: 25/12/2019
Date of Completion: 30/12/2019
Date of Reporting: 30/12/2019
Sampling Done By: AAL

TEST RESULT

Sampling Details:

Type of Monitoring : Ambient Air Quality Monitoring
Monitoring Procedure : As per IS-5182, P-14
Location of Sampling Point : Near Girl Hostel Gate
Sampling Started on : 12:15 PM (24/12/2019)
Sampling Completed on : 12:15 PM (25/12/2019)
Actual Time of Sampling (Hrs) : 24 Hrs.
Average flow Rate for particulate matter (m³/min.) : 1.1
Total Volume of air sampled for particulate matter (m³) : 1584

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	50.3	60	SOP-(AAL/SOP/ENV/002)/ CPCB Guideline
2	Particulate Matter, PM ₁₀	µg/m ³	80.5	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	9.5	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	33.8	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m ³	<0.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	Indo-Phenol Blue Method
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Benzo a-pyrene (Bap)	ng/m ³	<1.0	01	CPCB/GC Method

****End of Report****

Amlesh Kumar
(ANALYST)
Authorised Signatory

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Report No. AAL ENV-20191225021

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Date of Receiving: 25/12/2019

Date of Starting: 25/12/2019

Date of Completion: 30/12/2019

Date of Reporting: 30/12/2019

Sampling Method: By Noise Meter

Sampling Done By: AAL

Sample Description: Ambient Noise
Date of Monitoring: 24/12/2019 to 25/12/2019
Sampling Location: Near Main Gate
Purpose of Monitoring: Self Assessment

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	34.8	-	-	-
	L10	dB(A)	62.6			
	L50	dB(A)	54.8			
	L90	dB(A)	47.2			
	Leq	dB(A)	57.2	-	-	-
	Lmax	dB(A)	69.8	-	-	-
	Leq-Day	dB(A)	58.4	A: Industrial Area	75	70
				B: Commercial Area	65	55
				C: Residential Area	55	45
	Leq-Night	dB(A)	47.3	D: Silence Zone	50	40

****End of Report****

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(SR. ANALYST)
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Report No. AAL ENV-20191225022

Issued To: M/s Hindustan College of Science & Technology
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Farah, Distt. Mathura -281 122(UP)

Sample Description: Ambient Noise

Date of Monitoring: 24/12/2019 to 25/12/2019

Sampling Location: Near Girl Hostel Gate

Purpose of Monitoring: Self Assessment

Date of Receiving: 25/12/2019
Date of Starting: 25/12/2019
Date of Completion: 30/12/2019
Date of Reporting: 30/12/2019
Sampling Method: By Noise Meter
Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	34.8	-	-	-
	L10	dB(A)	61.2			
	L50	dB(A)	49.4			
	L90	dB(A)	44.8			
	Leq	dB(A)	57.4	-	-	-
	Lmax	dB(A)	66.3	-	-	-
	Leq-Day	dB(A)	58.1	A: Industrial Area	75	70
	Leq-Night	dB(A)	47.9	B: Commercial Area	65	55
				C: Residential Area	55	45
			D: Silence Zone	50	40	

****End of Report****

Amlesh Kumar
(SR ANALYST)
Authorised Signatory

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Report No. AAL ENV-20191225023

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Sample Description: D G Stack Emission

Date of Monitoring: 24/12/2019

Sampling Method: IS:11255 (Part-1 to Part-7)

Purpose of Monitoring: Self Assessment

Date of Receiving: 25/12/2019

Date of Starting: 25/12/2019

Date of Completion: 30/12/2019

Date of Reporting: 30/12/2019

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section

Stack Identification : Stack Attached to D G

Source of Emission : D G Set

Capacity : 500 KVA

Type of Stack : Metal

Diameter of Stack : 8"

Height of Stack from Ground Level : 23m

Height from Roof Level : -

Height at Which Sampling Port : 10m

Product Manufacturing : College

Type of Fuel Used : HSD

Normal Operating Schedule : As per requirement

Duration of Monitoring : 30 min.

Emission Control (if any) : Nil

Observations

Ambient Temperature (°C) : 18

Stack Temperature (°C) : 232

Velocity (m/s) : 11.2

Quantity of emission (Nm³/hr.) : 842.4

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (as PM)	g/kw-hr	0.16	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.94	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	3.42	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (as CO)	g/kw-hr	1.17	3.5	By GC
5	Hydrocarbon (as HC)	g/kw-hr	0.71	1.3	By GC

****End of Report****

Amlash Kumar
(SR. ANALYST)
Authorised Signatory

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No.	AAL ENV-20191225024
Sample Description:	D G Stack Emission	Date of Receiving:	25/12/2019
Date of Monitoring:	24/12/2019	Date of Starting:	25/12/2019
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Completion:	30/12/2019
Purpose of Monitoring:	Self Assessment	Date of Reporting:	30/12/2019
		Sampling Done By:	AAL

TEST RESULT

Plant/Section	: D G Section
Stack Identification	: Stack Attached to D G
Source of Emission	: D G Set
Capacity	: 1010 KVA
Type of Stack	: Metal
Diameter of Stack	: 12"
Height of Stack from Ground Level	: 23m
Height from Roof Level	: -
Height at Which Sampling Port	: 10m
Product Manufacturing	: College
Type of Fuel Used	: HSD
Normal Operating Schedule	: As per requirement
Duration of Monitoring	: 30 min.
Emission Control (if any)	: Nil

Observations

Ambient Temperature(°C)	: 18
Stack Temperature (°C)	: 196
Velocity (m/s)	: 11.2
Quantity of emission (Nm ³ /hr.)	: 1566.5

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	51.4	75	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	mg/Nm ³	13.8	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	316.5	710	IS 11255(P-7)-2005
4	Carbon Monoxide (as CO) At 15%O ₂	mg/Nm ³	25.6	150	By GC
5	Non Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	14.8	100	By GC

****End of Report****

Amlesh Kumar
(SR. ANALYST)
Authorised Signatory

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No.	AAL WQT-20191225009
Sample Description:	One Sample described as STP Inlet Water , was received.	Date of Receiving:	25/12/2019
		Date of Starting:	25/12/2019
		Date of Completion:	30/12/2019
		Date of Reporting:	30/12/2019
		Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test parameters	Unit	Results	Testing Method
1	pH Value	-	6.87	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	132.0	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	6.4	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	117.0	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	436.0	IS 3025(P-58)-2006

****End of Report****

Ashutosh Srivastava
(SR. ANALYST)
Authorised Signatory

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Report No. AAL WQT-20191225010

Date of Receiving: 25/12/2019

Date of Starting: 25/12/2019

Date of Completion: 30/12/2019

Date of Reporting: 30/12/2019

Sample Description: One Sample described as STP Outlet Water, was received.

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirement as per CPCB Guideline		Testing Method
				Into Inland Surface Water	On land for Irrigation	
1	pH Value	-	7.72	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	26.4	100 Max.	200 Max.	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	21.0	30 Max.	100 Max.	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	108.0	250 Max.	-	IS 3025(P-58)-2006

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Ashutosh Srivastava
(SP ANALYST)
Authorised Signatory

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No.	AAL WQT-20191225011
Sample Description:	One Sample described as Drinking Water (R O), was received.	Date of Receiving:	25/12/2019
		Date of Starting:	25/12/2019
		Date of Completion:	30/12/2019
		Date of Reporting:	30/12/2019
		Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

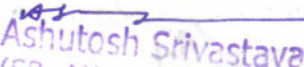
TEST RESULTS

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Desirable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983	Yes
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-1984	Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	pH Value	-	7.14	6.5 - 8.5	6.5 - 8.5	IS 3025(P-11)-1983	Yes
6	Total Hardness(as CaCO ₃)	mg/l	28.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
7	Iron (as Fe)	mg/l	<0.1	0.3 Max.	0.3 Max.	IS 3025(P-53)-2003	Yes
8	Chlorides (as Cl)	mg/l	33.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	-
10	Total Dissolved Solids	mg/l	136.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
11	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
12	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100ml of sample.		IS 1622-1981	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012.

****End of Report****


Vinay Dixit
(Microbiologist)


Ashutosh Srivastava
(SR. ANALYST)
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Report No. AAL WQT-20190622012

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Date of Receiving: 25/12/2019
Date of Starting: 25/12/2019
Date of Completion: 30/12/2019
Date of Reporting: 30/12/2019
Sample Quantity: 1 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

Sample Description: One sample described as Bore well Water, was received.

S. No.	Test parameters	Unit	TEST RESULTS		Testing Method	Conformity
			Results	Requirements As per IS: 10500-2012		
			Desirable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983 Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983 Yes
3	pH Value	-	7.24	6.5-8.5	6.5-8.5	IS 3025(P-11)-1983 Yes
4	Turbidity	NTU	2.5	1 Max.	5 Max.	IS 3025(P-10)-1984 Yes
5	Total Dissolved Solids	mg/l	10731.0	500 Max.	2000 Max.	IS 3025(P-16)1984 No
6	Aluminium (as Al)	mg/l	BDL (DL=0.03)	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003 Yes
7	Anionic Detergent (as MBAS)	mg/l	BDL (DL=0.2)	0.2 Max.	1.0 Max.	APHA 5540 C Yes
8	Boron (as B)	mg/l	BDL (DL=0.5)	0.5 Max.	0.5 Max.	IS 3025(P-57)-2005 Yes
9	Calcium (as Ca)	mg/l	1176.0	75 Max.	200 Max.	IS 3025(P-40)-1991 No
10	Chlorides (as Cl)	mg/l	6634.0	250 Max.	1000 Max.	IS 3025(P-32)-1988 No
11	Copper (as Cu)	mg/l	BDL (DL=0.05)	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992 Yes
12	Fluoride (as F)	mg/l	1.38	1 Max.	1.5 Max.	IS 3025(P-60)-1984 Yes
13	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986 -
14	Iron (as Fe)	mg/l	0.44	0.3 Max.	0.3 Max.	IS 3025(P-53)-2003 No
15	Magnesium (as Mg)	mg/l	702.0	30 Max.	100 Max.	IS 3025(P-46)-1994 No
16	Manganese (as Mn)	mg/l	BDL (DL=0.05)	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006 Yes
17	Nitrate (as NO ₃)	mg/l	18.6	45 Max.	45 Max.	IS 3025(P-34)-1988 Yes
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BDL (DL=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992 Yes
19	Selenium(as Se)	mg/l	BDL (DL=0.01)	0.01 Max.	0.01 Max.	IS 3025(P-56)-2003 Yes
20	Sulphate (as SO ₄)	mg/l	837.0	200 Max.	400 Max.	IS 3025(P-24)-1986 No
21	Total Alkalinity (as CaCO ₃)	mg/l	554.0	200 Max.	600 Max.	IS 3025(P-23)-1986 Yes
22	Total Hardness (as CaCO ₃)	mg/l	5840.0	200 Max.	600 Max.	IS 3025(P-21)-2009 No
23	Zinc (as Zn)	mg/l	0.56	5 Max.	15 Max.	IS 3025(P-49)-1994 Yes
24	Cadmium (as Cd)	mg/l	BDL (DL=0.002)	0.003 Max.	0.003 Max.	IS 3025(P-41)-1992 Yes
25	Cyanide (as CN)	mg/l	BDL (DL=0.05)	0.05 Max.	0.05 Max.	IS 3025(P-27)-1986 Yes
26	Lead(as Pb)	mg/l	BDL (DL=0.01)	0.01 Max.	0.01 Max.	IS 3025(P-47)-1994 Yes
27	Mercury (as Hg)	mg/l	BDL (DL=0.001)	0.001 Max.	0.001 Max.	IS 3025(P-48)-1992 Yes
28	Total Arsenic (as As)	mg/l	BDL (DL=0.01)	0.01 Max.	0.05 Max.	IS 3025(P-37)-1988 Yes
29	Total Chromium (as Cr)	mg/l	BDL (DL=0.05)	0.05 Max.	0.05 Max.	IS 3025(P-52)-2003 Yes
30	E.Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 1622-1981 Yes
31	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 1622-1981 Yes

BDL = Below Detection Limit

Remarks: The above tested sample does not meet the requirement of IS: 10500:2012.

Vinay Dixit

End of Report

Ashutosh Srivastava
Authorised Signatory

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Sample Description:	One sample described as STP Sludge, was received.	Date of Receiving:	25/12/2019
		Date of Starting:	25/12/2019
		Date of Completion:	30/12/2019
		Date of Reporting:	30/12/2019
		Sample Quantity:	2 Kgs.
		Sample Packing Condition:	Polythene Packing
		Sample Collected By:	AAL

TEST RESULT

(Protocol: APHA/AAS/CPCB Guidelines)

S. No.	Test parameters	Unit	Results
1	pH	-	7.42
2	Organic Solids	%	72.6
3	Inorganic Solids	%	27.3
4	Cyanide (as CN)	mg/kg	ND
5	Sulphide (as S)	mg/kg	3.4
6	Reactivity	-	Non Reactive
7	Toxic Metals		
(i)	Mercury (as Hg)	mg/kg	ND
(ii)	Lead (as Pb)	mg/kg	ND
(iii)	Cadmium (as Cd)	mg/kg	ND
(iv)	Chromium (as Cr)	mg/kg	ND
(v)	Nickel (as Ni)	mg/kg	ND
(vi)	Copper (as Cu)	mg/kg	ND

ND - Not Detected

****End of Report****


Dr. D.R. Sharma
Manager (O&T)
Authorised Signatory

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Report No. AAL ENV-20191225025

Date of Receiving: 25/12/2019

Date of Starting: 25/12/2019

Date of Completion: 30/12/2019

Date of Reporting: 30/12/2019

Sample Qty. 2 Kgs.

Sample Packing Condition: Polythene Bag

Sample Collected By: AAL

Sample Description: One sample described as Soil, was received.

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Test Method
1	pH	-	7.68	IS 2720(P-26)-1987, Reaff-2007
2	Conductivity	µS/cm	695	IS 2720(P-21)-1977, Reaff-2006
3	Sodium (as Na)	mg/kg	242.4	AAL/SOP/ENV/010-D
4	Potassium (as K)	mg/kg	165.2	AAL/SOP/ENV/010-D
5	Total Kjeldahl Nitrogen	% by mass	0.066	AAL/SOP/ENV/010-C
6	Phosphorus (as P)	-mg/kg	81.3	AAL/SOP/ENV/010-G
7	Organic Matter	% by mass	0.85	IS 2720(P-22)-1972, Reaff:2005
8	Calcium (as Ca)	% by mass	0.32	AAL/SOP/ENV/010-B
9	Magnesium (as Mg)	mg/kg	715.5	AAL/SOP/ENV/010-B
10	Soil Gran Size Analysis/Texture (% by mass)			
(a)	Sand	% by mass	72.0	IS 2720(P-4)-1985, Reaff. 2001
(b)	Silt	% by mass	14.0	IS 2720(P-4)-1985, Reaff. 2001
(c)	Clay	% by mass	14.0	IS 2720(P-4)-1985, Reaff. 2001

****End of Report****


Dr. D.R. Sharma
Gen. Manager (O&T)
Authorised Signatory

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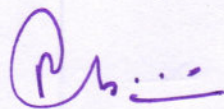
Hindustan College of Science and Technology

Farah, Mathura

Environment Audit-2020

1. Ambient air quality monitoring(near main gate)
2. Ambient air quality monitoring(near STP)
3. Ambient Noise(near main gate)
4. Ambient Noise(near at STP)
5. DG Stack monitoring DG SET 1
6. DG Stack monitoring DG SET 2
7. STP inlet water
8. STP outlet water
9. Drinking Water
10. Borewell water
11. Soil sample


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Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	03/03/2020
Date of Monitoring:	02/03/2020 to 03/03/2020	Date of Starting:	03/03/2020
Purpose of Monitoring:	Self Assessment	Date of Completion:	07/03/2020
		Date of Reporting:	07/03/2020
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Monitoring Procedure	: As per IS-5182, P-14
Location of Sampling Point	: Near Main Gate
Sampling Started on	: 10:00 AM (02/03/2020)
Sampling Completed on	: 10:00 AM (03/03/2020)
Actual Time of Sampling (Hrs)	: 24 Hrs.
Average flow Rate for particulate matter (m ³ /minute)	: 1.12
Total Volume of air sampled for particulate matter (m ³)	: 1612.8

S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	47.6	60	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
2	Particulate Matter, PM ₁₀	µg/m ³	75.8	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	10.2	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	28.6	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	CPCB Guideline (Indo-Phenol Blue Method)
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method

****End of Report****

Dr. D.R. SHARMA
Gen. Manager (Q&T)

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20200303040
Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	03/03/2020
Date of Monitoring:	02/03/2020 to 03/03/2020	Date of Starting:	03/03/2020
Purpose of Monitoring:	Self Assessment	Date of Completion:	07/03/2020
		Date of Reporting:	07/03/2020
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Monitoring Procedure	: As per IS-5182, P-14
Location of Sampling Point	: Near STP Plant
Sampling Started on	: 10:35 AM (02/03/2020)
Sampling Completed on	: 10:35 AM (03/03/2020)
Actual Time of Sampling (Hrs)	: 24 Hrs.
Average flow Rate for particulate matter (m ³ /minute)	: 1.11
Total Volume of air sampled for particulate matter (m ³)	: 1598.4

S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	43.8	60	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
2	Particulate Matter, PM ₁₀	µg/m ³	69.6	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	9.4	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	27.5	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02(8hr)	IS-5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	/Photometric CPCB Guideline (Indo-Phenol Blue Method)
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20200303041
Sample Description:	Ambient Noise	Date of Receiving:	03/03/2020
Date of Monitoring:	02/03/2020 to 03/03/2020	Date of Starting:	03/03/2020
Sampling Location:	Near Main Gate	Date of Completion:	07/03/2020
Purpose of Monitoring:	Self Assessment	Date of Reporting:	07/03/2020
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	36.9	-	-	-
	L10	dB(A)	63.6	-	-	-
	L50	dB(A)	54.7	-	-	-
	L90	dB(A)	41.9	-	-	-
	Leq	dB(A)	60.5	-	-	-
	Lmax	dB(A)	68.8	-	-	-
	Leq-Day	dB(A)	62.1	A: Industrial Area	75	70
				B: Commercial Area	65	55
				C: Residential Area	55	45
	Leq-Night	dB(A)	46.5	D: Silence Zone	50	40

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20200303042
Sample Description:	Ambient Noise	Date of Receiving:	03/03/2020
Date of Monitoring:	02/03/2020 to 03/03/2020	Date of Starting:	03/03/2020
Sampling Location:	Near STP Plant	Date of Completion:	07/03/2020
Purpose of Monitoring:	Self Assessment.	Date of Reporting:	07/03/2020
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines)		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	35.5	-	-	-
	L10	dB(A)	62.7	-	-	-
	L50	dB(A)	53.2	-	-	-
	L90	dB(A)	40.8	-	-	-
	Leq	dB(A)	59.5	-	-	-
	Lmax	dB(A)	68.3	-	-	-
	Leq-Day	dB(A)	61.1	A: Industrial Area	75	70
				B: Commercial Area	65	55
				C: Residential Area	55	45
	Leq-Night	dB(A)	44.9	D: Silence Zone	50	40

****End of Report****

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20200303043
Sample Description:	D G Stack Monitoring	Date of Receiving:	03/03/2020
Date of Monitoring:	02/03/2020	Date of Starting:	03/03/2020
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Completion:	07/03/2020
Purpose of Monitoring:	Self Assessment	Date of Reporting:	07/03/2020
		Sampling Done By:	AAL

TEST RESULT

Plant/Section	: DG Section
Stack Identification	: Stack Attached to DG
Source of Emission	: DG Set
Capacity	: 250 KVA – D G No.1
Type of Stack	: Metal
Diameter of Stack	: 12"
Height of Stack from Ground Level	: 21m
Height from Roof Level	: -
Height at Which Sampling Port	: 12m
Product Manufacturing	: College
Type of Fuel Used	: HSD
Normal Operating Schedule	: As per requirement
Duration of Monitoring	: 30 min.
Emission Control (if any)	: Nil

Observations

Ambient Temperature (°C)	: 31
Stack Temperature (°C)	: 184
Velocity (m/s)	: 11.3
Flow Rate(Nm ³ /hr)	: 1884.7

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (PM)	g/kw-hr	0.12	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.21	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.18	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (CO)	g/kw-hr	1.23	3.5	By GC
5	Hydrocarbon (as HC)	g/kw-hr	0.75	1.3	By GC

****End of Report****

Dr. D.R. SHARMA
Gen. Manager (Q&T)

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20200303044
Sample Description:	D G Stack Monitoring	Date of Receiving:	03/03/2020
Date of Monitoring:	02/03/2020	Date of Starting:	03/03/2020
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Completion:	07/03/2020
Purpose of Monitoring:	Self Assessment	Date of Reporting:	07/03/2020
		Sampling Done By:	AAL

TEST RESULT

Plant/Section	: DG Section
Stack Identification	: Stack Attached to DG
Source of Emission	: DG Set
Capacity	: 250 KVA – D G No.2
Type of Stack	: Metal
Diameter of Stack	: 12"
Height of Stack from Ground Level	: 21m
Height from Roof Level	: -
Height at Which Sampling Port	: 12m
Product Manufacturing	: College
Type of Fuel Used	: HSD
Normal Operating Schedule	: As per requirement
Duration of Monitoring	: 30 min.
Emission Control (if any)	: Nil

Observations

Ambient Temperature (°C)	: 32
Stack Temperature (°C)	: 178
Velocity (m/s)	: 10.8
Flow Rate(Nm ³ /hr)	: 1828.2

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (PM)	g/kw-hr	0.13	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.24	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.56	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (CO)	g/kw-hr	1.32	3.5	By GC
5	Hydrocarbon (as HC)	g/kw-hr	0.85	1.3	By GC

****End of Report****

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL WQT-20200303019
Sample Description:	One Sample described as STP Inlet Water , was received.	Date of Receiving:	03/03/2020
		Date of Starting:	03/03/2020
		Date of Completion:	07/03/2020
		Date of Reporting:	07/03/2020
		Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

No.	Test parameters	Unit	Results	Testing Method
1	pH	-	7.28	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	147.0	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	4.2	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	130.0	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	427.0	IS 3025(P-58)-2006

****End of Report****

Dr. D.R. SHARMA
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Sample Description: One Sample described as STP Outlet Water, was received.

Report No. AAL WQT-20200303020
Date of Receiving: 03/03/2020
Date of Starting: 03/03/2020
Date of Completion: 07/03/2020
Date of Reporting: 07/03/2020
Sample Quantity: 1 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirement as per CPCB Guideline		Testing Method
				Into Inland Surface Water	On land for Irrigation	
1	pH Value	-	7.85	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	27.0	100 Max.	200 Max.	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	22.0	30 Max.	100 Max.	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	116.0	250 Max.	-	IS 3025(P-58)-2006

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Sample Description:	One Sample described as Drinking Water (R O Water) was received.	Date of Receiving:	03/03/2020
		Date of Starting:	03/03/2020
		Date of Completion:	07/03/2020
		Date of Reporting:	07/03/2020
		Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Acceptable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-2017	Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	pH	-	7.13	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
6	Total Hardness (as CaCO ₃)	mg/l	31.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
7	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
8	Chlorides (as Cl)	mg/l	51.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	-
10	Total Dissolved Solids	mg/l	156.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
11	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
12	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100ml of sample.		IS 1622-1981	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012.

****End of Report****


Vinay Dixit
(Microbiologist)


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Report No. AAL WQT-20200303022

Date of Receiving: 03/03/2020
Date of Starting: 03/03/2020
Date of Completion: 07/03/2020
Date of Reporting: 07/03/2020
Sample Quantity: 2 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

Sample Description: One sample described as Bore well Water, was received.

S. No.	Test parameters	Unit	TEST RESULTS		Testing Method	Conformity	
			Results	Requirements As per IS: 10500-2012			
			Acceptable Limit	Permissible Limit			
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	pH Value	-	7.40	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
4	Turbidity	NTU	2.8	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	Total Dissolved Solids	mg/l	4590.0	500 Max.	2000 Max.	IS 3025(P-16)1984	No
6	Aluminium (as Al)	mg/l	BDL (DL=0.03)	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003	Yes
7	Anionic Detergent (as MBAS)	mg/l	BDL (DL=0.2)	0.2 Max.	1.0 Max.	APHA 5540 C	Yes
8	Boron (as B)	mg/l	BDL (DL=0.5)	0.5 Max.	2.4 Max.	IS 3025(P-57)-2005	Yes
9	Calcium (as Ca)	mg/l	295.0	75 Max.	200 Max.	IS 3025(P-40)-1991	No
10	Chlorides (as Cl)	mg/l	1438.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	No
11	Copper (as Cu)	mg/l	BDL (DL=0.05)	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992	Yes
12	Fluoride (as F)	mg/l	1.15	1 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
13	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	-
14	Iron (as Fe)	mg/l	0.38	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
15	Magnesium (as Mg)	mg/l	242.0	30 Max.	100 Max.	IS 3025(P-46)-1994	No
16	Manganese (as Mn)	mg/l	0.18	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
17	Nitrate (as NO ₃)	mg/l	23.6	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BDL (DL=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
19	Selenium(as Se)	mg/l	BDL (DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Yes
20	Sulphate (as SO ₄)	mg/l	638.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No
21	Total Alkalinity (as CaCO ₃)	mg/l	636.0	200 Max.	600 Max.	IS 3025(P-23)-1986	No
22	Total Hardness (as CaCO ₃)	mg/l	1738.0	200 Max.	600 Max.	IS 3025(P-21)-2009	No
23	Zinc (as Zn)	mg/l	0.35	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
24	Cadmium (as Cd)	mg/l	BDL (DL=0.002)	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes
25	Cyanide (as CN)	mg/l	BDL (DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes
26	Lead(as Pb)	mg/l	BDL (DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/l	BDL (DL=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Yes
28	Total Arsenic (as As)	mg/l	BDL (DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Yes
29	Total Chromium (as Cr)	mg/l	BDL (DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-52)-2003	Yes
30	E.Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 1622-1981	Yes
31	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 1622-1981	Yes

BDL = Below Detection Limit, DL=Detection Limit

Remarks: The above tested sample does not meet the requirement of IS: 10500:2012.

End of Report

Dr. D.R. SHARMA
Gen. Manager (Q&T)

Authorised Signatory

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20200303045
Sample Description:	Soil Sample	Date of Receiving:	03/03/2020
		Date of Starting:	03/03/2020
		Date of Completion:	07/03/2020
		Date of Reporting:	07/03/2020
		Sample Qty.:	2 Kgs.
		Sample Packing Condition:	Polythene Bag
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Method
1	pH	-	7.95	IS 2720(P-26)-1987, Reaff-2007
2	Conductivity	μS/cm	967	IS 2720(P-21)-1977, Reaff-2006
3	Sodium as Na	mg/kg	382.5	AAL/SOP/ENV/010-D
4	Potassium as K	mg/kg	225.8	AAL/SOP/ENV/010-D
5	Total Kjeldahl Nitrogen	% by mass	0.094	AAL/SOP/ENV/010-C
6	Phosphorus	mg/kg	75.2	AAL/SOP/ENV/010-G
7	Organic matter	% by mass	1.08	IS 2720(P-22)-1972, Reaff:2005
8	Calcium (as Ca)	% by mass	0.43	AAL/SOP/ENV/010-B
9	Magnesium (as Mg)	mg/kg	315.8	AAL/SOP/ENV/010-B
10	Soil Gran Size Analysis/Texture (% by mass)			
(a)	Sand	% by mass	74.0	IS 2720(P-4)-1985, Reaff. 2001
(b)	Silt	% by mass	11.0	IS 2720(P-4)-1985, Reaff. 2001
(c)	Clay	% by mass	15.0	IS 2720(P-4)-1985, Reaff. 2001

****End of Report****

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Hindustan College of Science and Technology

Farah, Mathura

Environment Audit-2021

1. Ambient air quality monitoring(near main gate)
2. Ambient air quality monitoring(near STP)
3. Ambient Noise(near main gate)
4. Ambient Noise(near at STP)
5. DG Stack monitoring DG SET 1
6. DG Stack monitoring DG SET 2
7. STP inlet water
8. STP outlet water
9. Drinking Water
10. Borewell water
11. STP Sludge
12. Soil sample


REGISTRAR
HINDUSTAN COLLEGE OF
SCIENCE & TECHNOLOGY
FARAH, MATHURA


Director
Hindustan College of
Science & Technology
FARAH (MATHURA)



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Report No. AAL ENV-20210327008

Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Dist. Mathura -281 122(UP)

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 26/03/2021 to 27/03/2021

Purpose of Monitoring: Self Assessment

Date of Receiving: 27/03/2021
Date of Starting: 27/03/2021
Date of Completion: 31/03/2021
Date of Reporting: 31/03/2021
Sampling Done By: AAL

TEST RESULT

Sampling Details:

Type of Monitoring : Ambient Air Quality Monitoring
Monitoring Procedure : As per IS-5182, P-14
Location of Sampling Point : Near Main Gate
Sampling Started on : 11:00 AM (26/03/2021)
Sampling Completed on : 11:00 AM (27/03/2021)
Actual Time of Sampling (Hrs) : 24 Hrs.
Average flow Rate for particulate matter (m³/minute) : 1.15
Total Volume of air sampled for particulate matter (m³) : 1656

S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	48.1	60	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
2	Particulate Matter, PM ₁₀	µg/m ³	73.2	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	9.5	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	31.6	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.2	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	CPCB Guideline (Indo-Phenol Blue Method)
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method

End of Report


Anil Kumar
(SR. ANALYST)
Authorised Signatory

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20210327009
Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	27/03/2021
Date of Monitoring:	26/03/2021 to 27/03/2021	Date of Starting:	27/03/2021
Purpose of Monitoring:	Self Assessment	Date of Completion:	31/03/2021
		Date of Reporting:	31/03/2021
		Sampling Done By:	AAL

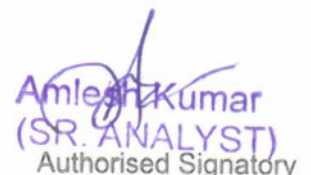
TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Monitoring Procedure	: As per IS-5182, P-14
Location of Sampling Point	: Near STP Plant
Sampling Started on	: 11:15 AM (26/03/2021)
Sampling Completed on	: 11:15 AM (27/03/2021)
Actual Time of Sampling (Hrs)	: 24 Hrs.
Average flow Rate for particulate matter (m ³ /minute)	: 1.1
Total Volume of air sampled for particulate matter (m ³)	: 1584

S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	42.5	60	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
2	Particulate Matter, PM ₁₀	µg/m ³	66.7	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	8.5	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	29.6	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.2	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	CPCB Guideline (Indo-Phenol Blue Method)
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method

End of Report


Amlesh Kumar
(SR. ANALYST)
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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20210327010
Sample Description:	Ambient Noise	Date of Receiving:	27/03/2021
Date of Monitoring:	26/03/2021 to 27/03/2021	Date of Starting:	27/03/2021
Sampling Location:	Near Main Gate	Date of Completion:	31/03/2021
Purpose of Monitoring:	Self Assessment	Date of Reporting:	31/03/2021
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	35.4	-	-	-
	L10	dB(A)	61.5	-	-	-
	L50	dB(A)	49.8	-	-	-
	L90	dB(A)	44.6	-	-	-
	Leq	dB(A)	57.2	-	-	-
	Lmax	dB(A)	71.4	-	-	-
	Leq-Day	dB(A)	58.1	A: Industrial Area	75	70
				B: Commercial Area	65	55
				C: Residential Area	55	45
	Leq-Night	dB(A)	48.4	D: Silence Zone	50	40

****End of Report****

Amlesh Kumar
(SR. ANALYST)

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20210327011
Sample Description:	Ambient Noise	Date of Receiving:	27/03/2021
Date of Monitoring:	26/03/2021 to 27/03/2021	Date of Starting:	27/03/2021
Sampling Location:	Near STP Plant	Date of Completion:	31/03/2021
Purpose of Monitoring:	Self Assessment	Date of Reporting:	31/03/2021
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	33.6	-	-	-
	L10	dB(A)	55.2	-	-	-
	L50	dB(A)	46.1	-	-	-
	L90	dB(A)	40.5	-	-	-
	Leq	dB(A)	48.3	-	-	-
	Lmax	dB(A)	69.3	-	-	-
	Leq-Day	dB(A)	49.5	A: Industrial Area	75	70
				B: Commercial Area	65	55
				C: Residential Area	55	45
	Leq-Night	dB(A)	44.6	D: Silence Zone	50	40

****End of Report****

Amlesh Kumar
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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20210327012
Sample Description:	D G Stack Monitoring	Date of Receiving:	27/03/2021
Date of Monitoring:	26/03/2021	Date of Starting:	27/03/2021
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Completion:	31/03/2021
Purpose of Monitoring:	Self Assessment	Date of Reporting:	31/03/2021
		Sampling Done By:	AAL

TEST RESULT

Plant/Section	: DG Section
Stack Identification	: Stack Attached to DG
Source of Emission	: DG Set
Capacity	: 250 KVA – D G No.1
Type of Stack	: Metal
Diameter of Stack	: 12"
Height of Stack from Ground Level	: 21m
Height from Roof Level	: -
Height at Which Sampling Port	: 12m
Product Manufacturing	: College
Type of Fuel Used	: HSD
Normal Operating Schedule	: As per requirement
Duration of Monitoring	: 30 min.
Emission Control (if any)	: Nil

Observations

Ambient Temperature(°C)	: 34
Stack Temperature (°C)	: 176
Velocity (m/s)	: 10.8
Flow Rate(Nm ³ /hr)	: 1015.2

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (PM)	g/kw-hr	0.13	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.35	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.84	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (CO)	g/kw-hr	1.19	3.5	By GC
5	Hydrocarbon (as HC)	g/kw-hr	0.86	1.3	By GC

****End of Report****

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Sample Description:	D G Stack Monitoring	Date of Receiving:	27/03/2021
Date of Monitoring:	26/03/2021	Date of Starting:	27/03/2021
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Completion:	31/03/2021
Purpose of Monitoring:	Self Assessment	Date of Reporting:	31/03/2021
		Sampling Done By:	AAL

TEST RESULT

Plant/Section	: DG Section
Stack Identification	: Stack Attached to DG
Source of Emission	: DG Set
Capacity	: 250 KVA - D G No.2
Type of Stack	: Metal
Diameter of Stack	: 12"
Height of Stack from Ground Level	: 21m
Height from Roof Level	: -
Height at Which Sampling Port	: 12m
Product Manufacturing	: College
Type of Fuel Used	: HSD
Normal Operating Schedule	: As per requirement
Duration of Monitoring	: 30 min.
Emission Control (if any)	: Nil

Observations

Ambient Temperature(°C)	: 34
Stack Temperature (°C)	: 196
Velocity (m/s)	: 10.2
Flow Rate(Nm ³ /hr)	: 956.8

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (PM)	g/kw-hr	0.14	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.47	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	3.11	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (CO)	g/kw-hr	1.37	3.5	By GC
5	Hydrocarbon (as HC)	g/kw-hr	0.95	1.3	By GC

****End of Report****

Amlesh Kumar
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Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Dist. Mathura -281 122(UP)

Report No. AAL WQT-20210327005

Date of Receiving: 27/03/2021

Date of Starting: 27/03/2021

Date of Completion: 31/03/2021

Date of Reporting: 31/03/2021

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle


Sample Collected By: AAL

Sample Description: One Sample described as **STP Inlet Water**, was received.

TEST RESULT

No.	Test parameters	Unit	Results	Testing Method
1	pH	-	7.22	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	138.0	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	5.4	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	117.0	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	390.0	IS 3025(P-58)-2006

****End of Report****


Ashutosh Srivastava
(SR. ANALYST)
Authorised Signatory

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Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Dist. Mathura -281 122(UP)

Report No. AAL WQT-20210327006

Date of Receiving: 27/03/2021

Date of Starting: 27/03/2021

Date of Completion: 31/03/2021

Date of Reporting: 31/03/2021

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

Sample Description: One Sample described as STP Outlet Water, was received.

TEST RESULT

No.	Test parameters	Unit	Results	Requirement as per CPCB Guideline		Testing Method
				Into Inland Surface Water	On land for Irrigation	
1	pH Value	-	7.64	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	22.6	100 Max.	200 Max.	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	19.5	30 Max.	100 Max.	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	97.0	250 Max.	-	IS 3025(P-58)-2006

****End of Report****


Ashutosh Srivastava
(SR. ANALYST)
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Issued To: M/s Hindustan College of Science & Technology
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Sample Description: One Sample described as **Drinking Water (R O Water)** was received.

Report No. AAL WQT-20210327007

Date of Receiving: 27/03/2021
Date of Starting: 27/03/2021
Date of Completion: 31/03/2021
Date of Reporting: 31/03/2021
Sample Quantity: 1 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Acceptable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-2017	Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	pH	-	7.10	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
6	Total Hardness (as CaCO ₃)	mg/l	36.0	200 Max.	600 Max.	IS 3025(P-21)-2009	Yes
7	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
8	Chlorides (as Cl)	mg/l	57.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	-
10	Total Dissolved Solids	mg/l	174.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
11	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
12	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100ml of sample.		IS 1622-1981	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012.

****End of Report****

Vinay Dixit
(Microbiologist)

Ashutosh Srivastava
(SR. ANALYST)
Authorised Signatory

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Report No. AAL WQT-20210327008

Sample Description: One sample described as Bore well Water, was received.

Date of Receiving: 27/03/2021
Date of Starting: 27/03/2021
Date of Completion: 31/03/2021
Date of Reporting: 31/03/2021
Sample Quantity: 2 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

TEST RESULTS

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Acceptable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	pH Value	-	7.24	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
4	Turbidity	NTU	2.3	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	Total Dissolved Solids	mg/l	3510.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	No
6	Aluminium (as Al)	mg/l	BDL	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003	Yes
7	Anionic Detergent (as MBAS)	mg/l	BDL	0.2 Max.	1.0 Max.	APHA 5540 C	Yes
8	Boron (as B)	mg/l	BDL	0.5 Max.	2.4 Max.	IS 3025(P-57)-2005	Yes
9	Calcium (as Ca)	mg/l	282.0	75 Max.	200 Max.	IS 3025(P-40)-1991	No
10	Chlorides (as Cl)	mg/l	1367.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	No
11	Copper (as Cu)	mg/l	BDL	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992	Yes
12	Fluoride (as F)	mg/l	0.93	1 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
13	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	-
14	Iron (as Fe)	mg/l	0.29	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
15	Magnesium (as Mg)	mg/l	219.0	30 Max.	100 Max.	IS 3025(P-46)-1994	No
16	Manganese (as Mn)	mg/l	BDL	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
17	Nitrate (as NO ₃)	mg/l	12.6	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BDL	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
19	Selenium (as Se)	mg/l	BDL	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Yes
20	Sulphate (as SO ₄)	mg/l	497.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No
21	Total Alkalinity (as CaCO ₃)	mg/l	432.0	200 Max.	600 Max.	IS 3025(P-23)-1986	Yes
22	Total Hardness (as CaCO ₃)	mg/l	1610.0	200 Max.	600 Max.	IS 3025(P-21)-2009	No
23	Zinc (as Zn)	mg/l	0.37	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
24	Cadmium (as Cd)	mg/l	BDL	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes
25	Cyanide (as CN)	mg/l	BDL	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes
26	Lead (as Pb)	mg/l	BDL	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/l	BDL	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Yes
28	Total Arsenic (as As)	mg/l	BDL	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Yes
29	Total Chromium (as Cr)	mg/l	BDL	0.05 Max.	No relaxation	IS 3025(P-52)-2003	Yes
30	E.Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 1622-1981	Yes
31	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 1622-1981	Yes

BDL - Below Detection Limit, DL - Detection Limit

Remarks: The above tested sample does not meet the requirement of IS: 10500:2012.

Vinay Dixit

End of Report

Ashutosh Srivastava
(SR ANALYST)
Authorised Signatory

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL MIS-20210327004
Sample Description:	One sample described as STP Sludge , was received.	Date of Receiving:	27/03/2021
		Date of Starting:	27/03/2021
		Date of Completion:	31/03/2021
		Date of Reporting:	31/03/2021
		Sample Quantity:	2 Kgs.
		Sample Packing Condition:	Polythene Packing
		Sample Collected By:	AAL

TEST RESULT

(Protocol: APHA/AAS/CPCB Guidelines)

S. No.	Test parameters	Unit	Results
1	pH	-	7.66
2	Organic Solids	%	68.5
3	Inorganic Solids	%	31.3
4	Cyanide (as CN)	mg/kg	ND
5	Sulphide (as S)	mg/kg	2.6
6	Reactivity	-	Non Reactive
7	Toxic Metals		
(i)	Mercury (as Hg)	mg/kg	ND
(ii)	Lead (as Pb)	mg/kg	ND
(iii)	Cadmium (as Cd)	mg/kg	ND
(iv)	Chromium (as Cr)	mg/kg	ND
(v)	Nickel (as Ni)	mg/kg	ND
(vi)	Copper (as Cu)	mg/kg	ND

ND - Not Detected

****End of Report****

Dr. D.R. Sharma
Gen. Manager (Q&T)
Authorised Signatory

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Report No. AAL ENV-20210327014

Date of Receiving: 27/03/2021

Date of Starting: 27/03/2021

Date of Completion: 31/03/2021

Date of Reporting: 31/03/2021

Sample Qty.: 2 Kgs.

Sample Packing Condition: Polythene Bag

Sample Collected By: AAL

Sample Description: Soil Sample

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Method
1	pH	-	7.86	IS 2720(P-26)-1987, Reaff-2007
2	Conductivity	µS/cm	918	IS 2720(P-21)-1977, Reaff-2006
3	Sodium as Na	mg/kg	395.3	AAL/SOP/ENV/010-D
4	Potassium as K	mg/kg	216.2	AAL/SOP/ENV/010-D
5	Total Kjeldahl Nitrogen	% by mass	0.098	AAL/SOP/ENV/010-C
6	Phosphorus	mg/kg	74.5	AAL/SOP/ENV/010-G
7	Organic matter	% by mass	1.12	IS 2720(P-22)-1972, Reaff:2005
8	Calcium (as Ca)	% by mass	0.42	AAL/SOP/ENV/010-B
9	Magnesium (as Mg)	mg/kg	326.7	AAL/SOP/ENV/010-B
10	Soil Gran Size Analysis/Texture (% by mass)			
(a)	Sand	% by mass	72.0	IS 2720(P-4)-1985, Reaff. 2001
(b)	Silt	% by mass	12.0	IS 2720(P-4)-1985, Reaff. 2001
(c)	Clay	% by mass	16.0	IS 2720(P-4)-1985, Reaff. 2001

****End of Report****

Dr. D.R. Sharma
Gen. Manager (Q&T)

Authorised Signatory

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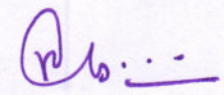
Hindustan College of Science and Technology

Farah, Mathura

Environment Audit-2022

1. Ambient air quality monitoring(near main gate)
2. Ambient air quality monitoring(near STP)
3. Ambient Noise(near main gate)
4. Ambient Noise(near at STP)
5. DG Stack monitoring DG SET 1
6. DG Stack monitoring DG SET 2
7. STP inlet water
8. STP outlet water
9. Drinking Water
10. Borewell water
11. STP Sludge
12. Soil sample


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Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Dist. Mathura -281 122(UP)

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 16/03/2022 to 17/03/2022

Purpose of Monitoring: Self Assessment

Report No. AAL ENV-20220317020

Date of Receiving: 17/03/2022

Date of Starting: 17/03/2022

Date of Completion: 22/03/2022

Date of Reporting: 22/03/2022

Sampling Done By: AAL

TEST RESULT

Sampling Details:

Type of Monitoring : Ambient Air Quality Monitoring

Monitoring Procedure : As per IS-5182, P-14

Location of Sampling Point : Near Main Gate

Sampling Started on : 11:10 AM (16/03/2022)

Sampling Completed on : 11:10 AM (17/03/2022)

Actual Time of Sampling (Hrs) : 24 Hrs.

Average flow Rate for particulate matter (m³/minute) : 1.1

Total Volume of air sampled for particulate matter (m³) : 1584

S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	51.4	60	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
2	Particulate Matter, PM ₁₀	µg/m ³	87.2	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	10.8	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	35.6	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	CPCB Guideline (Indo-Phenol Blue Method)
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method

****End of Report****

Amlesh Kumar
(SR. ANALYST)
Authorised Signatory

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Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	17/03/2022
Date of Monitoring:	16/03/2022 to 17/03/2022	Date of Starting:	17/03/2022
Purpose of Monitoring:	Self Assessment	Date of Completion:	22/03/2022
		Date of Reporting:	22/03/2022
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Monitoring Procedure	: As per IS-5182, P-14
Location of Sampling Point	: Near STP Plant
Sampling Started on	: 11:25 AM (16/03/2022)
Sampling Completed on	: 11:25 AM (17/03/2022)
Actual Time of Sampling (Hrs)	: 24 Hrs.
Average flow Rate for particulate matter (m ³ /minute)	: 1.15
Total Volume of air sampled for particulate matter (m ³)	: 1656

S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	45.5	60	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
2	Particulate Matter, PM ₁₀	µg/m ³	69.8	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	9.5	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	32.6	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	CPCB Guideline (Indo-Phenol Blue Method)
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method

****End of Report****


Anil Kumar
(Sr. Analyst)
Authorised Signatory

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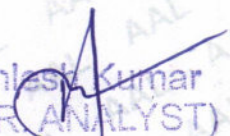
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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20220317022
Sample-Description:	Ambient Noise	Date of Receiving:	17/03/2022
Date of Monitoring:	16/03/2022 to 17/03/2022	Date of Starting:	17/03/2022
Sampling Location:	Near Main Gate	Date of Completion:	22/03/2022
Purpose of Monitoring:	Self Assessment	Date of Reporting:	22/03/2022
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	36.4	-	-	-
	L10	dB(A)	65.2	-	-	-
	L50	dB(A)	51.4	-	-	-
	L90	dB(A)	47.2	-	-	-
	Leq	dB(A)	58.6	-	-	-
	Lmax	dB(A)	70.2	-	-	-
	Leq-Day	dB(A)	59.5	A: Industrial Area	75	70
				B: Commercial Area	65	55
				C: Residential Area	55	45
	Leq-Night	dB(A)	49.2	D: Silence Zone	50	40

End of Report


Amlesh Kumar
(SR ANALYST)
Authorised Signatory

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Report No. AAL ENV-20220317023

Date of Receiving: 17/03/2022

Date of Starting: 17/03/2022

Sample Description: Ambient Noise
Date of Monitoring: 16/03/2022 to 17/03/2022

Date of Completion: 22/03/2022

Date of Reporting: 22/03/2022

Sampling Location: Near STP Plant

Sampling Method: By Noise Meter

Purpose of Monitoring: Self Assessment

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	35.6	-	-	-
	L10	dB(A)	59.8	-	-	-
	L50	dB(A)	45.2	-	-	-
	L90	dB(A)	40.7	-	-	-
	Leq	dB(A)	48.9	-	-	-
	Lmax	dB(A)	67.3	-	-	-
	Leq-Day	dB(A)	49.8	A: Industrial Area	75	70
				B: Commercial Area	65	55
	Leq-Night	dB(A)	44.2	C: Residential Area	55	45
				D: Silence Zone	50	40

***End of Report**

Amlash Kumar
(SR ANALYST)
Authorised Signatory

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Report No. AAL ENV-20220317024

Date of Receiving: 17/03/2022

Sample Description: D G Stack Monitoring

Date of Starting: 17/03/2022

Date of Monitoring: 16/03/2022

Date of Completion: 22/03/2022

Sampling Method: IS:11255 (Part-1 to Part-7)

Date of Reporting: 22/03/2022

Purpose of Monitoring: Self Assessment

Sampling Done By: AAL

TEST RESULT

Plant/Section : DG Section
Stack Identification : Stack Attached to DG
Source of Emission : DG Set
Capacity : 250 KVA – D G No.1
Type of Stack : Metal
Diameter of Stack : 12”
Height of Stack from Ground Level : 21m
Height from Roof Level : -
Height at Which Sampling Port : 12m
Product Manufacturing : College
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 30 min.
Emission Control (if any) : Nil

Observations
Ambient Temperature(°C) : 32
Stack Temperature (°C) : 185
Velocity (m/s) : 10.9
Flow Rate(Nm³/hr) : 1027.5

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (PM)	g/kw-hr	0.11	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.24	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.15	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (CO)	g/kw-hr	1.04	3.5	IS 13270-1992
5	Hydrocarbon (as HC)	g/kw-hr	0.71	1.3	By GC

****End of Report****

Amlesh Kumar
(Sr. Analyst)
Authorised Signatory

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Report No. AAL ENV-20220317025

Date of Receiving: 17/03/2022

Sample Description: D G Stack Monitoring

Date of Starting: 17/03/2022

Date of Monitoring: 16/03/2022

Date of Completion: 22/03/2022

Sampling Method: IS:11255 (Part-1 to Part-7)

Date of Reporting: 22/03/2022

Purpose of Monitoring: Self Assessment

Sampling Done By: AAL

TEST RESULT

Plant/Section : DG Section
Stack Identification : Stack Attached to DG
Source of Emission : DG Set
Capacity : 250 KVA - D G No.2
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 21m
Height from Roof Level : -
Height at Which Sampling Port : 12m
Product Manufacturing : College
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 30 min.
Emission Control (if any) : Nil

Observations
Ambient Temperature(°C) : 32
Stack Temperature (°C) : 178
Velocity (m/s) : 10.9
Flow Rate(Nm³/hr) : 941.8

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (PM)	g/kw-hr	0.12	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.36	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.84	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (CO)	g/kw-hr	1.25	3.5	IS 13270-1992
5	Hydrocarbon (as HC)	g/kw-hr	0.88	1.3	By GC

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Amlesh Kumar
(SFC ANALYST)
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Issued To: M/s Hindustan College of Science & Technology
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Sample Description: One Sample described as **STP Inlet Water**, was received.

Report No. AAL WQT-20220317071

Date of Receiving: 17/03/2022
Date of Starting: 17/03/2022
Date of Completion: 22/03/2022
Date of Reporting: 22/03/2022
Sample Quantity: 1 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Testing Method
1	pH	-	6.87	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	156.0	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	4.7	IS 3025(P-39)-2021
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	127.0	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	413.0	IS 3025(P-58)-2006

****End of Report****


Ashutosh Srivastava
(SR. ANALYST)
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Report No. AAL WQT-20220317072

Date of Receiving: 17/03/2022

Date of Starting: 17/03/2022

Date of Completion: 22/03/2022

Date of Reporting: 22/03/2022

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

Sample Description: One Sample described as STP Outlet Water, was received.

TEST RESULT

S. No.	Test parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge into		Testing Method
				Inland Surface Water	land for Irrigation	
1	pH Value	-	7.84	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	26.0	100 Max.	200 Max.	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-2021
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	21.0	30 Max.	100 Max.	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	112.0	250 Max.	-	IS 3025(P-58)-2006

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Ashutosh Srivastava
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		Date of Receiving:	17/03/2022
		Date of Starting:	17/03/2022
		Date of Completion:	22/03/2022
Sample Description:	One Sample described as Drinking Water (R O Water) was received.	Date of Reporting:	22/03/2022
		Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Acceptable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-2017	Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	pH	-	7.12	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
6	Total Hardness (as CaCO ₃)	mg/l	44.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
7	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
8	Chlorides (as Cl)	mg/l	51.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-2021	-
10	Total Dissolved Solids	mg/l	157.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
11	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
12	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100ml of sample.		IS 1622-1981	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012.

****End of Report****

Vijay Dixit
(Microbiologist)

Ashutosh Srivastava
(SR. ANALYST)
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Report No. AAL WQT-20220317074

Date of Receiving: 17/03/2022
Date of Starting: 17/03/2022
Date of Completion: 22/03/2022
Date of Reporting: 22/03/2022
Sample Quantity: 2 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Dist. Mathura -281 122(UP)

Sample Description: One sample described as Bore well Water, was received.

TEST RESULTS

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Acceptable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	pH Value	-	7.34	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
4	Turbidity	NTU	2.5	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	Total Dissolved Solids	mg/l	3340.0	500 Max.	2000 Max.	IS 3025(P-16)1984	No
6	Aluminium (as Al)	mg/l	BDL (DL=0.03)	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003	Yes
7	Anionic Detergent (as MBAS)	mg/l	BDL (DL=0.2)	0.2 Max.	1.0 Max.	APHA 5540 C	Yes
8	Boron (as B)	mg/l	BDL (DL=0.5)	0.5 Max.	2.4 Max.	IS 3025(P-57)-2005	Yes
9	Calcium (as Ca)	mg/l	260.0	75 Max.	200 Max.	IS 3025(P-40)-1991	No
10	Chlorides (as Cl)	mg/l	1240.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	No
11	Copper (as Cu)	mg/l	BDL (DL=0.05)	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992	Yes
12	Fluoride (as F)	mg/l	1.22	1 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
13	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-2021	-
14	Iron (as Fe)	mg/l	0.32	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
15	Magnesium (as Mg)	mg/l	208.0	30 Max.	100 Max.	IS 3025(P-46)-1994	No
16	Manganese (as Mn)	mg/l	BDL (DL=0.05)	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
17	Nitrate (as NO ₃)	mg/l	14.4	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BDL (DL=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
19	Selenium(as Se)	mg/l	BDL (DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Yes
20	Sulphate (as SO ₄)	mg/l	452.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No
21	Total Alkalinity (as CaCO ₃)	mg/l	536.0	200 Max.	600 Max.	IS 3025(P-23)-1986	Yes
22	Total Hardness (as CaCO ₃)	mg/l	1510.0	200 Max.	600 Max.	IS 3025(P-21)-2009	No
23	Zinc (as Zn)	mg/l	0.34	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
24	Cadmium (as Cd)	mg/l	BDL (DL=0.002)	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes
25	Cyanide (as CN)	mg/l	BDL (DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes
26	Lead(as Pb)	mg/l	BDL (DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/l	BDL (DL=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Yes
28	Total Arsenic (as As)	mg/l	BDL (DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Yes
29	Total Chromium (as Cr)	mg/l	BDL (DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-52)-2003	Yes
30	E.Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 1622-1981	Yes
31	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 1622-1981	Yes

BDL = Below Detection Limit, DL = Detection Limit

Remarks: The above tested sample does not meet the requirement of IS: 10500:2012.

****End of Report****

Ashtosh Srivastava
(SR. ANALYST)
Authorised Signatory

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Report No. AAL MIS-20220317016

Date of Receiving: 17/03/2022

Date of Starting: 17/03/2022

Date of Completion: 22/03/2022

Date of Reporting: 22/03/2022

Sample Description: One sample described as STP Sludge, was received.

Sample Quantity: 2 Kgs.

Sample Packing Condition: Polythene Packing

Sample Collected By: AAL


TEST RESULT

(Protocol: APHA/AAS/CPCB Guidelines)

S. No.	Test parameters	Unit	Results
1	pH	-	7.78
2	Organic Solids	%	73.4
3	Inorganic Solids	%	26.6
4	Cyanide (as CN)	mg/kg	ND
5	Sulphide (as S)	mg/kg	2.4
6	Reactivity	-	Non Reactive
7	Toxic Metals		
(i)	Mercury (as Hg)	mg/kg	ND
(ii)	Lead (as Pb)	mg/kg	ND
(iii)	Cadmium (as Cd)	mg/kg	ND
(iv)	Chromium (as Cr)	mg/kg	ND
(v)	Nickel (as Ni)	mg/kg	ND
(vi)	Copper (as Cu)	mg/kg	ND

ND = Not Detected

****End of Report****


Ashutosh Srivastava
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Farah, Dist. Mathura -281 122(UP)

Report No. AAL ENV-20220317026

Sample Description: Soil Sample

Date of Receiving: 17/03/2022
Date of Starting: 17/03/2022
Date of Completion: 22/03/2022
Date of Reporting: 22/03/2022
Sample Qty.: 2 Kgs.
Sample Packing Condition: Polythene Bag
Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Method
1	pH	-	7.78	IS 2720(P-26)-1987, Reaff-2007
2	Conductivity	μS/cm	826	IS 2720(P-21)-1977, Reaff-2006
3	Sodium as Na	mg/kg	385.2	AAL/SOP/ENV/010-D
4	Potassium as K	mg/kg	201.4	AAL/SOP/ENV/010-D
5	Total Kjeldahl Nitrogen	% by mass	0.079	AAL/SOP/ENV/010-C
6	Phosphorus	mg/kg	72.4	AAL/SOP/ENV/010-G
7	Organic matter	% by mass	1.10	IS 2720(P-22)-1972, Reaff:2005
8	Calcium (as Ca)	% by mass	0.51	AAL/SOP/ENV/010-B
9	Magnesium (as Mg)	mg/kg	335.4	AAL/SOP/ENV/010-B
10	Soil Gran Size Analysis/Texture (% by mass)			
(a)	Sand	% by mass	71.0	IS 2720(P-4)-1985, Reaff. 2001
(b)	Silt	% by mass	10.0	IS 2720(P-4)-1985, Reaff. 2001
(c)	Clay	% by mass	19.0	IS 2720(P-4)-1985, Reaff. 2001

****End of Report****

Dr. D.R. Sharma
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Hindustan College of Science and Technology

Farah, Mathura

Environment Audit-2023

1. Ambient air quality monitoring(near main gate)
2. Ambient air quality monitoring(near STP)
3. Ambient Noise(near main gate)
4. Ambient Noise(near at STP)
5. DG Stack monitoring DG SET 1
6. DG Stack monitoring DG SET 2
7. STP inlet water
8. STP outlet water
9. Drinking Water
10. Borewell water
11. Bath water
12. STP Sludge
13. Soil sample


REGISTRAR
HINDUSTAN COLLEGE OF
SCIENCE & TECHNOLOGY
FARAH, MATHURA


Director
Hindustan College of
Science & Technology
FARAH (MATHURA)



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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20230421049
Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	21/04/2023
Date of Monitoring:	20/04/2023 to 21/04/2023	Date of Starting:	21/04/2023
Purpose of Monitoring:	Self Assessment	Date of Completion:	26/04/2023
		Date of Reporting:	26/04/2023
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Sampling Method	: As per IS-5182 (P-14)-2000
Location of Sampling Point	: Near Main Gate
Sampling Started on	: 10:50 AM (20/04/2023)
Sampling Completed on	: 10:50 AM (21/04/2023)
Actual Time of Sampling (Hrs)	: 24:00 Hrs.
Average flow Rate for particulate matter (m ³ /minute)	: 1.15
Total Volume of air sampled for particulate matter (m ³)	: 1656

S. No.	Test Parameters	Unit	Results	Limits NAAQS (Max.)	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	51.3	60	IS-5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	92.5	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	11.6	80	IS-5182 (P-2)-2001
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	29.2	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02 (8hr)	IS-5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr)	IS-5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	IS-5182(P-25)-2018
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	AAL/SOP/008
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	IS-5182(P-11)-2006
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	IS-5182(P-12)-2004

End of Report

Dr. D. R. SHARMA
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Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	21/04/2023
Date of Monitoring:	20/04/2023 to 21/04/2023	Date of Starting:	21/04/2023
Purpose of Monitoring:	Self Assessment	Date of Completion:	26/04/2023
		Date of Reporting:	26/04/2023
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Sampling Method	: As per IS-5182 (P-14)-2000
Location of Sampling Point	: Near STP Plant
Sampling Started on	: 11:10 AM (20/04/2023)
Sampling Completed on	: 11:10 AM (21/04/2023)
Actual Time of Sampling (Hrs)	: 24:00 Hrs.
Average flow Rate for particulate matter (m ³ /minute)	: 1.25
Total Volume of air sampled for particulate matter (m ³)	: 1800

S. No.	Test Parameters	Unit	Results	Limits NAAQS (Max.)	Test Methods
1	Particulate Matter, PM _{2.5}	µg/m ³	47.2	60	IS-5182(P-24)-2019
2	Particulate Matter, PM ₁₀	µg/m ³	69.8	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	10.3	80	IS-5182 (P-2)-2001
4	Nitrogen Dioxide (as NO ₂)	µg/m ³	29.6	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02 (8hr)	IS-5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr)	IS-5182(P-9)-1974
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	IS-5182(P-25)-2018
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	AAL/SOP/008
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	IS-5182(P-11)-2006
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	IS-5182(P-12)-2004

End of Report

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20230421051
Sample Description:	Ambient Noise	Date of Receiving:	21/04/2023
Date of Monitoring:	20/04/2023 to 21/04/2023	Date of Starting:	21/04/2023
Sampling Location:	Near Main Gate	Date of Completion:	26/04/2023
Purpose of Monitoring:	Self Assessment	Date of Reporting:	26/04/2023
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	35.9	-	-	-
	L10	dB(A)	64.8	-	-	-
	L50	dB(A)	57.3	-	-	-
	L90	dB(A)	49.2	-	-	-
	Leq	dB(A)	60.3	-	-	-
	Lmax	dB(A)	72.5	-	-	-
	Leq-Day	dB(A)	60.8	A: Industrial Area	75	70
				B: Commercial Area	65	55
	Leq-Night	dB(A)	49.5	C: Residential Area	55	45
				D: Silence Zone	50	40

End of Report

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Report No. AAL ENV-20230421052

Date of Receiving: 21/04/2023

Date of Starting: 21/04/2023

Date of Completion: 26/04/2023

Date of Reporting: 26/04/2023

Sampling Method: By Noise Meter

Sampling Done By: AAL

Sample Description: Ambient Noise
Date of Monitoring: 20/04/2023 to 21/04/2023
Sampling Location: Near STP Plant
Purpose of Monitoring: Self Assessment

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		
				Category of Area / Zone	Day Time	Night Time
1	Noise Level					
	Lmin	dB(A)	35.1	-	-	-
	L10	dB(A)	59.3	-	-	-
	L50	dB(A)	48.2	-	-	-
	L90	dB(A)	43.8	-	-	-
	Leq	dB(A)	49.7	-	-	-
	Lmax	dB(A)	62.6	-	-	-
	Leq-Day	dB(A)	50.3	A: Industrial Area	75	70
	Leq-Night	dB(A)	41.8	B: Commercial Area	65	55
				C: Residential Area	55	45
			D: Silence Zone	50	40	

End of Report

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Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Report No.	AAL ENV-20230421053
Sample Description:	D G Stack Monitoring	Date of Receiving:	21/04/2023
Date of Monitoring:	20/04/2023	Date of Starting:	21/04/2023
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Completion:	26/04/2023
Purpose of Monitoring:	Self Assessment	Date of Reporting:	26/04/2023
		Sampling Done By:	AAL

TEST RESULT

Plant/Section	: DG Section
Stack Identification	: Stack Attached to DG
Source of Emission	: DG Set
Capacity	: 250 KVA – D G No.1
Type of Stack	: Metal
Diameter of Stack	: 12"
Height of Stack from Ground Level	: 21m
Height from Roof Level	: -
Height at Which Sampling Port	: 12m
Product Manufacturing	: College
Type of Fuel Used	: HSD
Normal Operating Schedule	: As per requirement
Duration of Monitoring	: 30 min.
Emission Control (if any)	: Nil
Observations	
Ambient Temperature (°C)	: 34
Stack Temperature (°C)	: 172
Velocity (m/s)	: 10.8
Flow Rate(Nm ³ /hr)	: 1029.3

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (PM)	g/kw-hr	0.11	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.21	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.35	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (CO)	g/kw-hr	0.65	3.5	IS 13270-1992
5	Hydrocarbon (as HC)	g/kw-hr	0.52	1.3	By GC

End of Report

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Sample Description:	D G Stack Monitoring	Date of Receiving:	21/04/2023
Date of Monitoring:	20/04/2023	Date of Starting:	21/04/2023
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Completion:	26/04/2023
Purpose of Monitoring:	Self Assessment	Date of Reporting:	26/04/2023
		Sampling Done By:	AAL

TEST RESULT

Plant/Section	: DG Section
Stack Identification	: Stack Attached to DG
Source of Emission	: DG Set
Capacity	: 250 KVA – D G No.2
Type of Stack	: Metal
Diameter of Stack	: 12"
Height of Stack from Ground Level	: 21m
Height from Roof Level	: -
Height at Which Sampling Port	: 12m
Product Manufacturing	: College
Type of Fuel Used	: HSD
Normal Operating Schedule	: As per requirement
Duration of Monitoring	: 30 min.
Emission Control (if any)	: Nil
Observations	
Ambient Temperature(°C)	: 34
Stack Temperature (°C)	: 168
Velocity (m/s)	: 10.8
Flow Rate(Nm ³ /hr)	: 995.3

S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (PM)	g/kw-hr	0.13	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.27	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.42	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (CO)	g/kw-hr	1.66	3.5	IS 13270-1992
5	Hydrocarbon (as HC)	g/kw-hr	0.75	1.3	By GC

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Sample Description: One Sample described as STP Inlet Water, was received.

Report No. AAL WQT-20230421008

Date of Receiving: 21/04/2023
Date of Starting: 21/04/2023
Date of Completion: 26/04/2023
Date of Reporting: 26/04/2023
Sample Quantity: 1 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Testing Method
1	pH	-	6.72	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	152.0	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	6.3	IS 3025(P-39)-2021
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	112.0	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	416.0	IS 3025(P-58)-2006

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Report No. AAL WQT-20230421009

Date of Receiving: 21/04/2023

Date of Starting: 21/04/2023

Date of Completion: 26/04/2023

Date of Reporting: 26/04/2023

Sample Quantity: 1 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

Sample Description: One Sample described as STP Outlet Water, was received.

TEST RESULT

S. No.	Test parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge into		Testing Method
				Inland Surface Water	land for Irrigation	
1	pH Value	-	7.62	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	20.0	100 Max.	200 Max.	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-2021
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	17.0	30 Max.	100 Max.	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	82.0	250 Max.	-	IS 3025(P-58)-2006

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Sample Description: One Sample described as Drinking Water (R O Water)
was received.

Report No. AAL WQT-20230421010
Date of Receiving: 21/04/2023
Date of Starting: 21/04/2023
Date of Completion: 26/04/2023
Date of Reporting: 26/04/2023
Sample Quantity: 1 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Acceptable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-2017	Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	Ph Value	-	7.11	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
6	Total Hardness (as CaCO ₃)	mg/l	42.0	200 Max.	600 Max.	IS 3025(P-21)-2009	Yes
7	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
8	Chlorides (as Cl)	mg/l	39.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-2021	-
10	Total Dissolved Solids	mg/l	131.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
11	Silica (as SiO ₂)	mg/l	ND (DL=0.1)	-	-	IS 3025(P-35)-1988	-
12	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
13	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100ml of sample.		IS 15185-2016	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012.

****End of Report****

Vinay Dixit
(Microbiologist)

Dr. D. R. SHARMA
Gen. Manager (Q&T)

Authorised Signatory

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Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Dist. Mathura -281 122(UP)

Report No. AAL WQT-20230421011

Date of Receiving: 21/04/2023
Date of Starting: 21/04/2023
Date of Completion: 26/04/2023
Date of Reporting: 26/04/2023
Sample Quantity: 2 Litre
Sample Packing Condition: Plastic Bottle
Sample Collected By: AAL

Sample Description: One sample described as Bore well Water, was received.

TEST RESULTS

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Acceptable Limit	Permissible Limit		
1	Colour	Hazen	10	5 Max.	15 Max.	IS 3025(P-4)-2021	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	pH Value	-	7.55	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
4	Turbidity	NTU	8.0	1 Max.	5 Max.	IS 3025(P-10)-1984	No
5	Total Dissolved Solids	mg/l	5640.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	No
6	Aluminium (as Al)	mg/l	ND(DL=0.03)	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003	Yes
7	Anionic Detergent (as MBAS)	mg/l	ND(DL=0.2)	0.2 Max.	1.0 Max.	APHA 5540 C	Yes
8	Boron (as B)	mg/l	ND(DL=0.5)	0.5 Max.	0.5 Max.	IS 3025(P-57)-2005	Yes
9	Calcium (as Ca)	mg/l	416.0	75 Max.	200 Max.	IS 3025(P-40)-1991	No
10	Chlorides (as Cl)	mg/l	2246.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	No
11	Copper (as Cu)	mg/l	ND(DL=0.05)	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992	Yes
12	Fluoride (as F)	mg/l	1.67	1 Max.	1.5 Max.	IS 3025(P-60)-1984	No
13	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-2021	-
14	Iron (as Fe)	mg/l	0.45	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
15	Magnesium (as Mg)	mg/l	430.0	30 Max.	100 Max.	IS 3025(P-46)-1994	No
16	Manganese (as Mn)	mg/l	0.18	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
17	Nitrate (as NO ₃)	mg/l	27.6	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	ND(DL=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
19	Selenium(as Se)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Yes
20	Sulphate (as SO ₄)	mg/l	638.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No
21	Total Alkalinity (as CaCO ₃)	mg/l	716.0	200 Max.	600 Max.	IS 3025(P-23)-1986	No
22	Total Hardness (as CaCO ₃)	mg/l	2817.0	200 Max.	600 Max.	IS 3025(P-21)-2009	No
23	Zinc (as Zn)	mg/l	0.39	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
24	Cadmium (as Cd)	mg/l	ND(DL=0.002)	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes
25	Cyanide (as CN)	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes
26	Lead(as Pb)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/l	ND(DL=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Yes
28	Total Arsenic (as As)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Yes
29	Total Chromium (as Cr)	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-52)-2003	Yes
30	Silica (as SiO ₂)	mg/l	0.45	-	-	IS 3025(P-35)-1988	-
31	E.Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 15185-2016	Yes
32	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 15185-2016	Yes

ND = Not Detected, DL=Detection Limit

Remarks: The above tested sample does not meet the requirement of IS: 10500:2012.

End of Report

Vinay Dixit
(Microbiologist)

Dr. D. R. SHARMA
Gen. Manager (Q&T)

Authorised Signatory

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Issued To: M/s Hindustan College of Science & Technology
Agra Delhi Highway, NH-2
Farah, Dist. Mathura -281 122(UP)

Report No. AAL WQT-20230421012

Date of Receiving: 21/04/2023

Date of Starting: 21/04/2023

Date of Completion: 26/04/2023

Date of Reporting: 26/04/2023

Sample Quantity: 1.5 Litre

Sample Packing Condition: Plastic Bottle

Sample Submitted By: Customer

Sample Description: Bath Water (RO-2)

TEST RESULTS

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
				Acceptable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021	Yes
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	pH Value	-	7.29	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
5	Total Dissolved Solids	mg/l	398.0	500 Max.	2000 Max.	IS 3025(P-16)1984	Yes
6	Aluminium (as Al)	mg/l	ND(DL=0.03)	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003	Yes
7	Anionic Detergent (as MBAS)	mg/l	ND(DL=0.2)	0.2 Max.	1.0 Max.	APHA 5540 C	Yes
8	Boron (as B)	mg/l	ND(DL=0.5)	0.5 Max.	0.5 Max.	IS 3025(P-57)-2005	Yes
9	Calcium (as Ca)	mg/l	29.0	75 Max.	200 Max.	IS 3025(P-40)-1991	Yes
10	Chlorides (as Cl)	mg/l	180.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
11	Copper (as Cu)	mg/l	ND(DL=0.05)	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992	Yes
12	Fluoride (as F)	mg/l	0.36	1 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
13	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-2021	-
14	Iron (as Fe)	mg/l	0.16	1.0 Max.	100 Max.	IS 3025(P-53)-2003	Yes
15	Magnesium (as Mg)	mg/l	15.0	30 Max.	100 Max.	IS 3025(P-46)-1994	Yes
16	Manganese (as Mn)	mg/l	ND(DL=0.05)	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
17	Nitrate (as NO ₃)	mg/l	4.4	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	ND(DL=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
19	Selenium(as Se)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Yes
20	Sulphate (as SO ₄)	mg/l	66.0	200 Max.	400 Max.	IS 3025(P-24)-1986	Yes
21	Total Alkalinity (as CaCO ₃)	mg/l	112.0	200 Max.	600 Max.	IS 3025(P-23)-1986	Yes
22	Total Hardness (as CaCO ₃)	mg/l	128.0	200 Max.	600 Max.	IS 3025(P-21)-2009	Yes
23	Zinc (as Zn)	mg/l	ND(DL=0.05)	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
24	Cadmium (as Cd)	mg/l	ND(DL=0.002)	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes
25	Cyanide (as CN)	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes
26	Lead(as Pb)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/l	ND(DL=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Yes
28	Total Arsenic (as As)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Yes
29	Total Chromium (as Cr)	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-52)-2003	Yes
30	Silica (as SiO ₂)	mg/l	0.12	-	-	IS 3025(P-35)-1988	-
31	E.Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 15185-2016	Yes
32	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml of sample		IS 15185-2016	Yes

ND = Not Detected, DL=Detection Limit

End of Report

Vinay Dixit
(Microbiologist)

Dr. D. R. SWARMA
Gen. Manager (Q&T)

Authorised Signatory

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Report No. AAL MIS-20230421008

Date of Receiving: 21/04/2023

Date of Starting: 21/04/2023

Date of Completion: 26/04/2023

Date of Reporting: 26/04/2023

Sample Description: One sample described as STP Sludge, was received.

Sample Quantity: 2 Kgs.

Sample Packing Condition: Polythene Packing

Sample Collected By: AAL

TEST RESULT

(Protocol: APHA/AAS/CPCB Guidelines)

S. No.	Test parameters	Unit	Results
1	pH	-	7.93
2	Organic Solids	%	74.5
3	Inorganic Solids	%	29.3
4	Cyanide (as CN)	mg/kg	ND
5	Sulphide (as S)	mg/kg	4.4
6	Reactivity	-	Non Reactive
7	Toxic Metals		
(i)	Mercury (as Hg)	mg/kg	ND
(ii)	Lead (as Pb)	mg/kg	ND
(iii)	Cadmium (as Cd)	mg/kg	ND
(iv)	Chromium (as Cr)	mg/kg	ND
(v)	Nickel (as Ni)	mg/kg	ND
(vi)	Copper (as Cu)	mg/kg	ND

ND = Not Detected

****End of Report****

Dr. D. R. SHARMA
Gen. Manager (Q&T)

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Issued To: M/s Hindustan College of Science & Technology
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Farah, Dist. Mathura -281 122(UP)

Report No. AAL ENV-20230421055

Date of Receiving: 21/04/2023

Date of Starting: 21/04/2023

Date of Completion: 26/04/2023

Date of Reporting: 26/04/2023

Sample Qty.: 2 Kgs.

Sample Packing Condition: Polythene Bag

Sample Collected By: AAL

Sample Description: Soil Sample

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Method
1	pH	-	7.93	IS 2720(P-26)-1987, Reaff-2007
2	Conductivity	µS/cm	872	IS 2720(P-21)-1977, Reaff-2006
3	Sodium as Na	mg/kg	368.4	AAL/SOP/ENV/010-D
4	Potassium as K	mg/kg	237.3	AAL/SOP/ENV/010-D
5	Total Kjeldahl Nitrogen	% by mass	0.061	AAL/SOP/ENV/010-C
6	Phosphorus	mg/kg	71.2	AAL/SOP/ENV/010-G
7	Organic matter	% by mass	1.12	IS 2720(P-22)-1972, Reaff:2005
8	Calcium (as Ca)	% by mass	0.59	AAL/SOP/ENV/010-B
9	Magnesium (as Mg)	mg/kg	320.5	AAL/SOP/ENV/010-B
10	Soil Gran Size Analysis/Texture (% by mass)			
(a)	Sand	% by mass	68.0	IS 2720(P-4)-1985, Reaff. 2001
(b)	Silt	% by mass	10.0	IS 2720(P-4)-1985, Reaff. 2001
(c)	Clay	% by mass	22.0	IS 2720(P-4)-1985, Reaff. 2001

****End of Report****

Dr. D. R. SHARMA
Gen. Manager (Q&T)

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in the field of

TESTING

Certificate Number: TC-5826

Issue Date: 01/06/2022

Valid Until: 31/05/2024

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(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : ARIHANT ANALYTICAL LABORATORY PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for
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in the field of

TESTING

Certificate Number: TC-5826

Issue Date: 01/06/2019

Valid Until:

31/05/2021*

*The validity is extended for one year up to 31.05.2022

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Name of Legal Identity : ARIHANT ANALYTICAL LABORATORY PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



**National Accreditation Board for
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



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in the field of

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Issue Date 01/06/2017



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Signed for and on behalf of NABL

N. Venkateswaran
Program Director

Anil Relia
Chief Executive Officer