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

Dr. Harendra Singh

(Director, IQAC)

Director Internal Quality Astimance Mill Hill dustan Cohole of Chrone & Technology Freches Studies

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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 Justan College of Science & Technology Farah, Mathura

Direc Hindustan College of Science & Technology FARAH (MATHURA)

HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY

FARAH, MATHURA

### POLICY DOCUMENT FOR ENVIRONMENT AND ENERGY

of Science & lech

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.

TAN COLLEGE OF SCIENCE & TECHNOLOGY FARAH, MATHURA

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

ustan 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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Director

Hindustan College of Science & Technology FARAH (MATHURA)



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### TEST CERTIFICATE

Page 1 of 1

Sample Description:	Farah, Distt. Mathura -281 122(UP) Ambient Air Quality Monitoring	Date of Starting:	12/06/2018
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Completion: Date of Reporting:	16/06/2018 16/06/2018
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL

#### TEST RESULT

	Samplin	ng Details:				
	Type of	Monitoring			: Ambient Air Quality M	onitoring
Anna	Monitor	ing Procedure	-	INI	V T : As per IS-5182, P-14	A PL
	Location	n of Sampling Point	1	NAL	Near Main Gate	
	Samplin	g Started on		/	: 10:10 AM (11/06/2018)	
		g Completed on	4		: 10:10 AM (12/06/2018)	
		Time of Sampling (Hrs)	V/ \		: 24 hrs.	
		flow Rate for particulate matter	(m <sup>3</sup> /min)	1	: 1.15	
		olume of air sampled for particula		1.11.2	: 1656	
	S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring	Test Methods
	5.110.	rest i arameters	Omt	Results	& Analysis Guidelines	Test Methods
					Volume-I	
	1	Particulate Matter, PM 2.5	$\mu g/m^3$	51.61	60 0	SOP-(AAL/SOP/ENV/002)/
	-					CPCB Guideline
	2	Particulate Matter, PM 10	μg/m <sup>3</sup>	94.22	100	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	14.30	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	µg/m <sup>3</sup>	28.17	80	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	<0.2	02 (8hr)	IS-5182(P-10)-1999
			VP.C	17.	04 (1hr)	Reaff. 2003
-	6	Ozone (as $O_3$ )	µg/m <sup>3</sup>	21.40	S 100 (8hr)	IS-5182(P-9)-1974
-	7	Ammonia (as NH3)	µg/m <sup>3</sup>	20.50	180 (1hr) 400	/Photometric Indo-Phenol Blue Method
	8	Lead (as Pb)	$\mu g/m^3$	0.09	01	
	9	Nickel (as Ni)	$ng/m^3$	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic' (as As)	ng/m <sup>3</sup>	<1.0		IS-5182(P-22)-2004
	11	Benzene (as $C_6H_6$ )			06	IS-5182(P-22)-2004
	12		$\mu g/m^3$	< 0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene' (Bap)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
				**End o	f Report**	



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Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL EN	V-20180612004
	Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Date of Receiving:	12/06/2018
	raran, Distt. Mathura -281 122(UP)	Date of Starting:	12/06/2018
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	16/06/2018
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Reporting:	16/06/2018
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL
			R.M.

#### **TEST RESULT**

	Samplin	g Details:				
	Type of I	Monitoring		Contractor of the lot	: Ambient Air Quality M	onitoring
-	Monitori	ng Procedure	/	NAL	V T : As per IS-5182, P-14	(A)
	Location	of Sampling Point	A	NAL	: Near Girl Hostel Gate	
	Sampling	g Started on	N		: 10:30 AM (11/06/2018)	
	Sampling	g Completed on	SIC		: 10:30 AM (12/06/2018)	
	Actual T	ime of Sampling (Hrs) 🛛 🖊 🏷	$\langle \cdot \rangle$		: 24 hrs.	
	Average	flow Rate for particulate matter (	m <sup>3</sup> /min.)	i	$ : 1.1 \setminus O \setminus$	
	Total Vo	lume of air sampled for particulat	te matter (1	m <sup>3</sup> )	: 1584	
	S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5	$\mu g/m^3$	44.11	60 8	SOP-(AAL/SOP/ENV/002)/ CPCB Guideline
	2	Particulate Matter, PM 10	$\mu g/m^3$	82.75	100	IS-5182(P-23)-2006
		Sulphur Dioxide (as SO <sub>2</sub> )	μg/m <sup>3</sup>	13.50	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	µg/m <sup>3</sup>	28.70	80	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	<0.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff, 2003
5	6	Ozone (as O <sub>3</sub> )	μg/m <sup>3</sup>	21.20	S (100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
_	7	Ammonia (as NH <sub>3</sub> )	$\mu g/m^3$	20.40	400	Indo-Phenol Blue Method
	8	Lead (as Pb)	$\mu g/m^3$	0.08	01	IS-5182(P-22)-2004
	9	Nickel (as Ni)	ng/m <sup>3</sup>	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic* (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	$\mu g/m^3$	< 0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene' (Bap)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
				**End o	f Report**	



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Page 1 of 1

Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL
Sampling Location:	Near Main Gate	Sampling Method:	By Noise Meter
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Reporting:	16/06/2018
Sample Description:	Ambient Noise	Date of Completion:	16/06/2018
	raran, Distr. Mathura -201 122(UP)	Date of Starting:	12/06/2018
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No. AAL EN Date of Receiving:	12/06/2018

#### TEST RESULTS

	Noise Level Lmin L10	dB(A)	39.7	Category of Area / Zone	Day Time	Night Time
			39.7			- But Thine
	L10			121	-	-
		dB(A)	66.2	10		
	L50	dB(A)	56.2	101		
	L90	dB(A)	52.5	2		
	Leq	dB(A)	62.6	- 4		4-1
and part	Lmax	dB(A)	70.4	- lol	-	P.P.
	Les Devi	4		A: Industrial Area	75	70
	Leq-Day	dB(A)	63.1	B: Commercial Area	65	55
- 19 A.		12	id a	C: Residential Area	55	45
in and in	Leq-Night	dB(A)	51.7	D: Silence Zone	50	40
		- Pd	**End of Report	110		



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Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL
Sampling Location:	Near Girl Hostel Gate	Sampling Method:	By Noise Meter
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Reporting:	16/06/2018
Sample Description:	Ambient Noise	Date of Completion:	16/06/2018
	raran, Distt. Mathura -26) 122(OF)	Date of Starting:	12/06/2018
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No. AAL EN	12/06/2018

TEST RESULTS

S. No.	<b>Test Parameter</b>	Unit	Results		uirement	
$\cap$			NALYT	ICA (as per CP Limits i	CB Guidelines) n dB(A) Leq.	P.P.
1	Noise Level	155		Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	38.1	14	-	-
	L10	dB(A)	64.9	10		
	L50	dB(A)	56.3	101		
	L90	dB(A)	46.5	2		
	Leq	dB(A)	61.8		· • 3	
	Lmax	dB(A)	68.6	- 0	-	WA-
		4		A: Industrial Area	75	70
	Leq-Day	dB(A)	62.5	B: Commercial Area	65	55
		12		C: Residential Area	55	45
	Leq-Night	dB(A)	48.7	D: Silence Zone	50	40
$\hat{}$		- Vd	**End of Report	017		



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<sup>5.</sup> date of issue of report unless specified.



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issueu ro.	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Date of Receiving:	12/06/2018
Sample Description:	D G Stack Emission	Date of Starting:	12/06/2018
Date of Monitoring:	11/06/2018	Date of Completion:	16/06/2018
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Reporting:	16/06/2018
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL

#### **TEST RESULT**

Plant/Section	n		: D G Section		
Stack Identi	fication	ANAL	: Stack Attache	ed to D G	
Source of E	mission	( AIL	: D G Set		
Capacity			: 500 KVA	-	
Type of Sta	ck		: Metal	0	
Diameter of	Stack		: 8"	NO1	
Height of St	tack from Ground Level		: 23m	R	
Height from	Roof Level		: -	ISI	
Height at W	hich Sampling Port		: 10m	4	
Product Ma	nufacturing		: College	0	
Type of Fue	l Used		: HSD	121	
Normal Ope	erating Schedule		: As per require	ement	
Duration of	Monitoring		: 30 min.	81	
Emission Co	ontrol (if any)		: Nil	S/	
Observatio	ns	bi	1.2		
Ambient Te	mperature( °C)	ONEP	C : 38		
Stack Temp	erature (°C)		: 220		
Velocity (m	/s)		: 10.50		
Quantity of	emission (Nm <sup>3</sup> /hr.)		: 298.8		
S. No. 7	Test Parameter	Unit	Results	Limits	Test Methods
p 1 I	Particulate Matter (as PM)	g/kw-hr	0.12	0.3	IS 11255(P-1)-1985
2 5	Sulphur Dioxide (as SO <sub>2</sub> )	g/kw-hr	1.05	-	IS 11255(P-2)-1985
3 (	Oxide of Nitrogen (as NO <sub>x</sub> )	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 H	Hydrocarbon (as HC)	g/kw-hr	0.82	1.3	By GC
		**End of R	eport**		P



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	Pag	elof1
	Report No. AAL EN	IV-20180612008
M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Date of Receiving:	12/06/2018
D G Stack Emission	Date of Starting:	12/06/2018
11/06/2018	Date of Completion:	16/06/2018

Date of Reporting:

Sampling Done By:

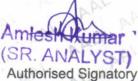
16/06/2018

AAL

Sample Description:	<b>D G Stack Emission</b>
Date of Monitoring:	11/06/2018
Sampling Method:	IS:11255 (Part-1 to Part-7)
Purpose of Monitoring:	Self Assessment

#### **TEST RESULT**

	CONTRACTOR OF THE OWNER	A DESCRIPTION OF A DESC				
Plant/Se	entification ANA	T: DGS	ection			
Stack Ide	entification A Pitt	: Stack	Attached to D G			
Source o	entification of Emission	: DGS	et			
Capacity	8	: 1010 F	(VA			
Type of		: Metal	1001			
Diamete	r of Stack	: 12"	L'H			
Height o	of Stack from Ground Level	: 23m	RA	1		
Height fi	rom Roof Level	: -	15			
Height a	t Which Sampling Port	: 10m	16		p.p.t	
Product	Manufacturing	: Colleg	e S			
Type of	Fuel Used	: HSD	121			
Normal (	Operating Schedule	: As per	requirement			
Duration	of Monitoring	: 30 min				
Emission	a Control (if any)	: Nil	· >//			
Observa	tions d INI	10.00				
Ambient	Temperature( °C)	: 38				
Stack Te	emperature (°C)	: 178				
Velocity	(m/s)	: 9.09				
Quantity	of emission (Nm <sup>3</sup> /hr.)	: 1361.8				
S. No.	Test Parameter	Unit	Results	Limits	Test Methods	
1	Particulate Matter (as PM) At 15% O <sub>2</sub>	mg/Nm <sup>3</sup>	44.28	75	IS 11255(P-1)-1985	
2	Sulphur Dioxide (as SO <sub>2</sub> )	mg/Nm <sup>3</sup>	20.10		IS 11255(P-2)-1985	
3	Oxide of Nitrogen (as NO <sub>x</sub> ) At 15% O <sub>2</sub>	ppmv	241.62	710	IS 11255(P-7)-2005	
4	Carbon Monoxide (as CO) At 15%O <sub>2</sub>	mg/Nm <sup>3</sup>	13.11	150	By GC	
5	Non Methane Hydrocarbon• (as C) At 15% O <sub>2</sub>	mg/Nm <sup>3</sup>	11.58	100	By GC	
	**End	of Report**		1. Just	A AL	
		n Pitt			A PY	



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date of issue of report unless specified.



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	(TEST CERTIFICATE)		Page 1 of 1
Isonad Tax		Report No. AAL WQT-20	180612005
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	12/06/2018
	Farah, Distt. Mathura -281 122(UP)	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),	Sample Quantity:	1 Litre
	was received	Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL
	TEST RESULTS		ant a

TEST	RESULTS
NAME OF TAXABLE PARTY.	

S. No.	Test parameters	NAL YUnit	Results	<b>Testing Method</b>
1	pH Value	ANTERICA	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	mg/l	127.0	IS 3025(P-44)-1993
5	(BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)	mg/l	462.0	IS 3025(P-58)-2006
		**End of Report**	0	
	A		12	
	19		151	
	VI.		5	
	X P	171 171	1	



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Vebsite	www.aalkundli.com	

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	Agra Delhi Highway, NH-2	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 (Outlet), was received	Sample Quantity:	1 Litre		
		Sample Packing Condition:	Plastic Bottle		
		Sample Collected By:	AAL		

#### TEST RESULT

S. No.	Test parameters	UnitA	Results	Requirement as Guidel		<b>Testing Method</b>
1	pH Value	Alt	7.88	Into Inland Surface Water 5.5 - 9.0	On land for Irrigation 5.5 - 9.0	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/1	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**	20	1	
	151			12	/	

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NEPAL

date of issue of report unless specified.



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	(TEST CERTIFICATE)		Page 1 of 1
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL WQT-20	180612003
	Agra Delhi Highway, NH-2	Date of Receiving:	12/06/2018
	Farah, Distt. Mathura -281 122(UP)	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),	Sample Quantity:	1 Litre
	was received.	Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

#### **TEST RESULTS**

S. No.	Test parameters	Unit	Results		ents As per 00-2012 Permissible	Testing Method	Conformity
1	Colour	Hazen	<5.0	Limit 5 Max.	Limit 15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	×/- `	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983	Yes
3	Taste Q	/ -	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 CaCO3)	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)	L mg/l	38.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l	NII	0.2 Min. (when	1.0 Min. (when	IS 3025(P-26)-1986	ALL AP
10	Total Dissolved Solids	mg/l	98.0	Chlorinated) 500 Max.	Chlorinated) 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 Remark:	Total Coliform The above tested parameters n	Per 100ml	Absent	any 100ml	detectable in of sample.	IS 1622-1981	Yes

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

\*End of Report\*\*



rivastava (SR. ANALYST) Authorised Signatory

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AND	A DE	<mark>N ISO 900</mark> 272, Phas	<b>1:2015, ISO</b> se-IV, Sec-{ 082301442	14001:200 57, HSIIDC 2, 92500145	<b>4, OHSAS 1</b> , Kundli, So 551 Email :	8001:2007 CER nepat-131028 aalkundli@gm			
			V	Vebsite : ww	w.aalkundl			-	
					ENTIFICAT		Page 1	of 2	
Issued	To	M/s Hind	ustan College	of Science &	Tashnalogy	Report No.	AAL WQT-2018	80612004	
155464	10.		i Highway, Ni		reennology	Date of Rec	eiving:	12/06/20	18
			tt. Mathura -2			Date of Star	0	12/06/20	
						Date of Con	npletion:	16/06/20	18
						Date of Rep	orting:	16/06/20	18
Sample	e Description:		le described a	s Bore well W	ater, was	Sample Qua	antity:	1 Litre	
		received.					king Condition:	Plastic Bottle	
						Sample Col	lected By:	AAL	
				TEST R	RESULTS				
Õ.	Test paramete	ers	Unit	Results		ents As per 500-2012	Testing Method	Co	nformity
			13	Rit	Desirable	Permissible			
1	Colour		Hazen	<5.0	Limit 5 Max.	Limit 15 Max.	IS 3025(P-4)-198	3	Yes
2	Odour		15	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-198	3	Yes
3	pH Value		81	7.48	6.5 - 8.5	6.5 - 8.5	IS 3025(P-11)-198	33	Yes
4	Taste		-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-198	4	Yes
5	Turbidity		NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-198	4 p.P	Yes
6	Total Dissolved	d Solids	d_mg/l	1862.0	500 Max.	2000 Max.	IS 3025(P-16)198	4	Yes
7	Aluminium (as	Al)	mg/l	ND	0.03 Max.	0.2 Max.	IS 3025(P-55)-200	3	Yes
8	Anionic Deterg (as MABS)	ent	mg/l	ND	0.2 Max.	1.0 Max.	Annex K of IS 13428-2005		Yes
9	Boron (as B)		mg/I	ND	0.5 Max.	0.5 Max.	IS 3025(P-57)-200	5	Yes
$\bigcirc$	Calcium (as Ca	)	mg/l	136.0	75 Max.	200 Max.	IS 3025(P-40)-199	1	Yes
11	Chlorides (as C	1)	mg/l	937.0	250 Max.	1000 Max.	IS 3025(P-32)-198	8	Yes

17 Manganese (as Mn)

Iron (as Fe)

Copper (as Cu)

Fluoride (as F)

Residual free chlorine

Magnesium (as Mg)

18 Mineral Oil Vinay Dixit

12

13

14

15

16

(Microbiologist)

Authorized Signatory

0.05 Max.

1 Max.

0.2 Min.

(when

Chlorinated)

0.3 Max.

30 Max.

0.1 Max.

0.5 Max.

1.5 Max.

1.5 Max.

1.0 Min.

(when

Chlorinated)

0.3 Max.

100 Max.

0.3 Max.

0.5 Max.

IS 3025(P-42)-1992

IS 3025(P-60)-1984

IS 3025(P-26)-1986

IS 3025(P-53)-2003

IS 3025(P-46)-1994

IS 3025(P-59)-2006

IS 3025(P-39)-1991

ns

(SAuthonsed Signatory

Yes

Yes

Yes

Yes

Yes

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

ND

0.13

Nil

0.18

54.0

ND

ND

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### TEST CERTIFICATE

Page 2 of 2

			Report No. AAL WQT-20180612004		
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	12/06/2018		
	Farah, Distt. Mathura -281 122(UP)	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	Sample Quantity:	1 Litre		
		received.	Sample Packing Condition:	Plastic Bottle	
		Sample Collected By:	AAL		

#### TEST RESULTS

Õ.	Test parameters	Unit	Results		ients As per 500-2012	Testing Method	Conf	formity
'		1		Desirable	Permissible			
19	Nitrate (as NO <sub>3</sub> )	mg/l	7.6	Limit 45 Max.	Limit 100 Max.	IS 3025(P-34)-1988		Yes
20	Phenolic Compound	mg/l	<0.001	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992		Yes
21	(as $C_6H_5OH$ ) Sulphate (as $SO_4$ )	5 mg/l	289.0	200 Max.	400 Max.70	IS 3025(P-24)-1986		Yes
22	Total Alkalinity (as	mg/l	372.0	200 Max.	600 Max. 🚬	IS 3025(P-23)-1986		Yes
23	CaCO <sub>3</sub> ) Total Hardness (as	mg/l	562.0	200 Max.	600 Max.	IS 3025(P-21)-2009		Yes
24	CaCO <sub>3</sub> ) 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	1	Yes
27	Mercury (as Hg)	mg/l	ND	0.001 Max.	0.001 Max.	IS 3025(P-48)-1992		Yes
S	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	12.	Yes
30	Total Chromium (as Cr)	mg/l	ND	0.05 Max.	0.05 Max.	IS 3025(P-52)-2003	a let	Yes
31	E.Coli	Per 100ml	Absent		detectable any	IS 1622-1981		Yes
32	Total Coliform	Per 100ml	Absent	Shall not be	l sample detectable any l sample	IS 1622-1981	1	Yes
	ND - Not Detected							

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

\*\*End of Report\*\*





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## TEST CERTIFICATE

Page 1 of 1

		Report No. AAL ENV-2018	80612008
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Date of Receiving:	12/06/2018
		Date of Starting:	12/06/2018
		Date of Completion:	16/06/2018
Sample Description:	One sample described as Soil, was received.	Date of Reporting:	16/06/2018
		Sample Qty.	2 Kgs.
		Sample Packing Condition:	Polythene Bag
		Sample Collected By:	AAL

TEST DESIL TS

			TEST RESULTS	2	
Os	5. No.	Test Parameters	ANDALYTIC	Results	Test Method
	1	рН	2.	7.44	IS 2720(P-26)-1987, Reaff-2007
	2	Conductivity / 📎		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	O 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)	1.5	A A A
	(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
0	(c)	Clay	% by mass	13.25	IS 2720(P-4)-1985, Reaff. 2001
			**End of Report**		



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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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DE CA Hindustan College of

Science & Technology FARAH (MATHURA)



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### TEST CERTIFICATE)

Page 1 of 1

	Issued T		<i>K</i> /- <b>XX</b> - <b>3</b> 4	0.11		0.75.1		Report No.	AAL EN	V-2019122501	9
	Issued I	237-33	M/s Hindustan Agra Delhi Hig			e & Tech	nology				
			Farah, Distt. M			)		Date of Rec		25/12/2019	
								Date of Sta	0	25/12/2019	
			Ambient Air (					Date of Con	npletion:	30/12/2019	
	Date of 1	0	24/12/2019 to 2		019			Date of Rep	oorting:	30/12/2019	
	Purpose	of Monitoring: S	Self Assessmen	nt				Sampling D	one By:	AAL	
					TEST RI	ESULT				PAL	•
	Samplin	g Details:									
	Type of	Monitoring				:	Ambient Ai	r Quality M	onitoring		
	Monitori	ing Procedure			1.0	V+	As per IS-51	82, P-14			
)	Location	of Sampling Point		1	ANA	-11	Near Main	Gate			
	Samplin	g Started on		$\langle X \rangle$	5	:	12:05 PM (2	4/12/2019)			
	Samplin	g Completed on	· /.	4	~	:	12:05 PM (2	5/12/2019)			
	Actual T	ime of Sampling (Hrs	s)	5/	61	:	24 Hrs.	105			
	Average	flow Rate for particu	late matter (m	<sup>3</sup> /min.)		:	1.15	1001			
	Total Vo	olume of air sampled f	for particulate	matter (	(m <sup>3</sup> )	× :	1656	121			
	S. No.	Test Parameters	A	Unit	Results		NAAQS Mon nalysis Guide Volume-I		Te	st Methods	
	1	Particulate Matter, I	PM 2.5	1g/m <sup>3</sup>	53.5		60	0	SOP-(AA	L/SOP/ENV/00	2)/
	2	Particulate Matter, I		ug/m <sup>3</sup>	87.3		100	121		CB Guideline 82(P-23)-2006	
	3	Sulphur Dioxide (as		1g/m <sup>3</sup>	9.5		80	171		82 (P-2)-2001	
	4	Oxide of Nitrogen (		1g/m <sup>3</sup>	36.2		80	121		182(P-6)-2006	
	5	Carbon Monoxide (a		$1g/m^3$	<0.2		02 (8hr)	~/			
	5	Carbon wonoxide (	as (0) II	Ig /III	-0.2		02 (8hr) 04 (1hr)	1/		82(P-10)-1999 leaff. 2003	
1	6	Ozone (as O <sub>3</sub> )	ŀ	ug/m <sup>3</sup>	<20.0	25	100 (8hr) 180 (1hr)		IS-5	182(P-9)-1974 hotometric	
2	7	Ammonia (as NH <sub>3</sub> )	ł	1g/m <sup>3</sup>	<20.0	Time and the second	400			enol Blue Metho	d

- 8 Lead (as Pb)9 Nickel (as Ni)
- Arsenic (as As)
   Benzene (as C<sub>6</sub>H<sub>6</sub>)
- 12 Banzo a-pyrene (Bap)

\*\*End of Report\*\*

01

20

06

05

01

< 0.1

<1.0

<1.0

<0.1

<1.0



IS-5182(P-22)-2004

IS-5182(P-22)-2004

IS-5182(P-22)-2004

NISOH 6015-2005

CPCB/GC Method

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 $\mu g/m^3$ 

ng/m<sup>3</sup>

ng/m<sup>3</sup>

 $\mu g/m^3$ 

ng/m<sup>3</sup>

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.... ...

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CERTIFICATE	TEST
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Page 1 of 1

Sampling Details:	TEST RESULT		and and
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL
Date of Monitoring:	24/12/2019 to 25/12/2019	Date of Reporting:	30/12/2019
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	30/12/2019
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No. AAL EN Date of Receiving: Date of Starting:	25/12/2019 25/12/2019 25/12/2019

	Type of	Monitoring			: Ambient Air Quality M	onitoring
-	Monitor	ing Procedure			As per IS-5182, P-14	p. p. c
)	Location	of Sampling Point	/	ANA	Near Girl Hostel Gate	
	Samplin	g Started on		r.	: 12:15 PM (24/12/2019)	
	Samplin	g Completed on	14	~	: 12:15 PM (25/12/2019)	
	Actual 7	Time of Sampling (Hrs)	8		: 24 Hrs.	
	Average	flow Rate for particulate matter	(m <sup>3</sup> /min.)	1	: 1.1	
		olume of air sampled for particu			: 1584	
	S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5	µg/m <sup>3</sup>	50.3	60 0	SOP-(AAL/SOP/ENV/002)/
	2	Particulate Matter, PM 10	µg/m <sup>3</sup>	80.5	100 20	CPCB Guideline IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	μg/m <sup>3</sup>	9.5	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	µg/m <sup>3</sup>	33.8	80 0	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	<0.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
٦	6	Ozone (as O <sub>3</sub> )	μg/m <sup>3</sup>	Q <20.0	S (100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia (as NH <sub>3</sub> )	$\mu g/m^3$	<20.0	400	Indo-Phenol Blue Method
	8	Lead (as Pb)	$\mu g/m^3$	<0.1	01	IS-5182(P-22)-2004
	9	Nickel (as Ni)	ng/ m <sup>3</sup>	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (Bap)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
				**End o	f Report**	



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### (TEST CERTIFICATE)

Page 1 of 1

111 0010100

Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL
Sampling Location:	Near Main Gate	Sampling Method:	By Noise Meter
Date of Monitoring:	24/12/2019 to 25/12/2019	Date of Reporting:	30/12/2019
Sample Description:	Ambient Noise	Date of Completion:	30/12/2019
	Farah, Distt. Mathura -281 122(UP)	Date of Starting:	25/12/2019
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	25/12/2019
		Report No. AAL EN	V-20191225021

#### TEST RESULTS

S. No.	Test Parameter	Unit	Results	(as per CP	uirement CB Guideline n dB(A) Leq.	s)
1	Noise Level	13	Alt	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	34.8	( a)		PP.
	L10	dB(A)	62.6	10		
	L50	dB(A)	- 54.8	101		
	L90	dB(A)	47.2	R		
	Leq	dB(A)	57.2	- P.	-	
	Lmax	dB(A)	69.8	- 7		por pri
		4		A: Industrial Area	75	70
	Leq-Day	dB(A)	58.4	B: Commercial Area	65	55
		12		C: Residential Area	55	45
	Leq-Night	dB(A)	47.3	D: Silence Zone	50	40
		4 b	**End of Report	1017		



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### TEST CERTIFICATE

Page 1 of 1

ENIN 20101226020

Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL EN	NV-20191225022
155464 10.	Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Date of Receiving: Date of Starting:	25/12/2019
Sample Description:	Ambient Noise	Date of Completion:	30/12/2019
Date of Monitoring:	24/12/2019 to 25/12/2019	Date of Reporting:	30/12/2019
Sampling Location:	Near Girl Hostel Gate	Sampling Method:	By Noise Meter
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL

#### TEST RESULTS

S. No.	Test Parameter	Unit	Results	(as per CP	Requirement r CPCB Guidelines) hits in dB(A) Leq.	
1	Noise Level	1.5	An	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	34.8	60		p.P.
	L10	dB(A)	61.2	10		· ba .
	L50	dB(A)	49.4			
	L90	dB(A)	44.8	R		
	Leq	dB(A)	57.4	- P.	-	
	Lmax	dB(A)	66.3	- 7	-	PP' pt
		4		A: Industrial Area	75	70
	Leq-Day	dB(A)	58.1	B: Commercial Area	65	55
		2		C: Residential Area	55	45
	Leq-Night	dB(A)	47.9	D: Silence Zone	50	40
		× Þ	**End of Repor	1017		



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### TEST CERTIFICATE)

		Report No. AAL EN	V-20191225023
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Date of Receiving:	25/12/2019
Sample Description:	D G Stack Emission	Date of Starting:	25/12/2019
Date of Monitoring:	24/12/2019	Date of Completion:	30/12/2019
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Reporting:	30/12/2019
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL

#### TEST RESULT

	Plant/Sec	tion		: D G Section				
	Stack Ide	entification	NAL	: Stack Attached	d to D G			
	Source of	fEmission	ANT	: DG Set				
	Capacity	· · · · / ·	4	: 500 KVA	1			
	Type of S	Stack	Nº1	: Metal	Pal			
	Diameter			: 8"	0			
	Height of	f Stack from Ground Level 📿		: 23m	191			
	Height fr	om Roof Level		5	121			
	Height at	Which Sampling Port		: 10m	E			
	Product N	Manufacturing		: College	6			
	Type of I	Fuel Used		: HSD				
	Normal (	Operating Schedule		: As per require	ment	10 A.		
	Duration	of Monitoring		: 30 min.	21			
	Emission	Control (if any)	ONEPAL	: Nil	nº/			
	Observa	tions	X h					
1	Ambient	Temperature( °C)	V JNOU	: .18				
1	Stack Ter	mperature (°C)	2110:	: 232				
	Velocity	(m/s)		: 11.2				
	Quantity	of emission (Nm <sup>3</sup> /hr.)		: 842.4				
	S. No.	Test Parameter	Unit	Results	Limits	<b>Test Methods</b>		
	1	Particulate Matter (as PM)	g/kw-hr	0.16	0.3	IS 11255(P-1)-1985		
	2	Sulphur Dioxide (as SO <sub>2</sub> )	g/kw-hr	0.94	-	IS 11255(P-2)-1985		
	3	Oxide of Nitrogen (as NO <sub>x</sub> )	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 Rep	ort**				



Page 1 of 1

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### (TEST CERTIFICATE)

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

#### TEST RESULT

	Plant/Sec	tion	D G Se	ction		
	Stack Ide	ation Intification	: Stack A	ttached to D G		
	Source of	f Emission Stack	: DG Set	6		
	Capacity	Se Contraction	: 1010 K	VA		
	Type of S	Stack	: Metal	10	( · · ·	
	Diameter	of Stack	; 12"	0	1	
	Height of	f Stack from Ground Level	23m	X	1 (	
	Height fr	om Roof Level	: -	3	>	
	Height at	Which Sampling Port	: 10m		-	
	Product N	Manufacturing	: College			
	Type of H	Fuel Used	: HSD	12	7 /	
	Normal C	Dperating Schedule	: As per r	equirement	/	
	Duration	Fuel Used Deperating Schedule of Monitoring Control (if any) tions Temperature( °C)	: 30 min.	101		
	Emission	Control (if any)	: Nil	1.51		
~	Observa	tions	101	$\sqrt{2}$		
2	Ambient	Temperature( °C)	05 18			
	Stack Ter	mperature (°C)	: 196			
	Velocity	(m/s)	: 11.2			
	Quantity	of emission (Nm <sup>3</sup> /hr.)	: 1566.5			
	S. No.	Test Parameter	Unit	Results	Limits	<b>Test Methods</b>
	1	Particulate Matter (as PM) At 15% O <sub>2</sub>	mg/Nm <sup>3</sup>	51.4	75	IS 11255(P-1)-1985
	2	Sulphur Dioxide (as SO <sub>2</sub> )	mg/Nm <sup>3</sup>	13.8	-	IS 11255(P-2)-1985
	3	Oxide of Nitrogen (as NO <sub>x</sub> ) At 15% O <sub>2</sub>	ppmv	316.5	710	IS 11255(P-7)-2005
	4	Carbon Monoxide (as CO) At 15%O <sub>2</sub>	mg/Nm <sup>3</sup>	25.6	150	By GC
	5	Non Methane Hydrocarbon (as C) At 15% $O_2$	mg/Nm <sup>3</sup>	14.8	100	By GC
		**End	of Report**			



Page 1 of 1

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	and the second	(TEST CERTIFICAT	E)	Page 1 of 1	
		M/ We dester Collins of Collins of Technology	Report No. AAL WQT-	20191225009	
	Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	25/12/2019	
		Farah, Distt. Mathura -281 122(UP)	Date of Starting:	25/12/2019	
			Date of Completion:	30/12/2019	
	WP AN	the star in the star	Date of Reporting:	30/12/2019	
	Sample Description:	One Sample described as STP Inlet Water, was received.	Sample Quantity:	1 Litre	
		Tecerved.	Sample Packing Condition	L'AND AND AND AND AND AND AND AND AND AND	
	- the all	the part of the part	Sample Collected By:	AAL	1
		TEST RESULTS		AL AAL DAL	
S. No. Test para		eters NAL Unit	Results	Testing Method	
	1 pH Value	ANALICA	6.87 IS	3025(P-11)-1983	

- Total Suspended Solids
  - Oil & Grease

2

Biochemical Oxygen Demand (BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)

\*\*End of Report\*\*

1Vd

mg/l

mg/l

mg/l

mg/l

IS 3025(P-17)-1984 IS 3025(P-39)-1991 IS 3025(P-44)-1993 IS 3025(P-58)-2006

132.0

6.4

117.0

436.0

- Srivastava (SR. ANALYST) Authorised Signatory
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			TES	T CERTIFI	CATE)		Page 1 of 1	
Issued 7	Γο:	M/s Hindustan Colleg	e of Science	e & Technolo	Report No	AAL WQT-	20191225010	
Issueu	10.	Agra Delhi Highway, N	VH-2		Date of R	eceiving:	25/12/2019	
		Farah, Distt. Mathura -	281 122(UP	?)	Date of St	arting:	25/12/2019	
					Date of C	ompletion:	30/12/2019	
					Date of R	eporting:	30/12/2019	
Sample	Description:	One Sample described	as STP Out	tlet Water, wa	as Sample Q	Sample Quantity:		
		received.	ed.		Sample Pa	acking Condition	Plastic Bottle	
					Sample C	ollected By:	AAL	
			TEST	RESULT			AAL	
S. No.	Test parame	eters	Unit	Results	Requirement as Guidel		Testing Method	
1	pH Value	ded Solids		7.72	Into Inland Surface Water 5.5 - 9.0	On land for Irrigation 5.5 - 9.0	IS 3025(P-11)-1983	
2	Total Suspen	ded 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 (BOD - 3 day	Oxygen Demand	mg/l	21.0	30 Max.	100 Max.	IS 3025(P-44)-1993	
5		sygen Demand (COD)	mg/l	108.0	250 Max.	7 -	IS 3025(P-58)-2006	

\*\*End of Report\*\*

utosh Srivastava (SP ANALYST) **Authorised Signatory** 

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		John	
	(TEST CERTIFICATE	)	Page 1 of 1
Issued To:	M/s Hindusten College of Science & Technology	Report No. AAL WQT-20	191225011
issued 10:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	25/12/2019
	Farah, Distt. Mathura -281 122(UP)	Date of Starting:	25/12/2019
		Date of Completion:	30/12/2019
		Date of Reporting:	30/12/2019
Sample Description:	One Sample described as Drinking Water (R O),	Sample Quantity:	1 Litre
	was received.	Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

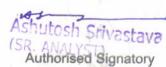
#### TEST RESULTS

1	S. No.	Test parameters	Unit	Results	IS: 105 Desirable	Permissible	Testing Method	Conformity
	1	Colour	Hazen	<5.0	Limit 5 Max.	Limit 15 Max.	IS 3025(P-4)-1983	Yes
	2	Odour	21	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983	Yes
	3	Taste	2/-	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 <sub>3</sub> )	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		0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	· ·
2	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 any 100ml		IS 1622-1981	Yes

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

\*\*End of Report\*\*





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date of issue of report unless specified.

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			(TEST C	ERTIFICATE	=)	Page 1 of	1-125	
Issued T Sample	Fo: M/s Hindustan C Agra Delhi Highv Farah, Distt. Math Description: One sample description	way, NH-2 hura -281 122(U)	P)		Report No. Date of Receiving Date of Starting: Date of Completi Date of Reportin Sample Quantity Sample Packing Sample Collected	25 ion: 30 g: 30 :: 11 Condition: Pla	012 /12/2019 /12/2019 /12/2019 /12/2019 Litre astic Bottl AL	
S. No.	Test parameters	Unit	TEST RES Results		ents As per	Testing Method	Con	formiter
1	Colour	Hazen	<5.0		00-2012 Permissible Limit 15 Max.	IS 3025(P-4)-1983	AAL	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	. 0	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	0.5 Max.	0.5 Max.	IS 3025(P-57)-2005		Yes
9	Calcium (as Ca)	mg/l	(DL=0.5) 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.	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	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006		Yes
17	Nitrate (as NO <sub>3</sub> )	mg/l	(DL=0.05) 18.6	45 Max.	45 Max.	IS 3025(P-34)-1988		Yes
18	Phenolic Compound (as C6H3OH)	mg/l	BDL	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992		Yes
19	Selenium(as Se)	mg/l	(DL-0.001) BDL	0.01 Max.	0.01 Max.	IS 3025(P-56)-2003		Yes
20	Sulphate (as SO <sub>4</sub> )	mg/l	(DL=0.01) 837.0	200 Max.	400 Max.	IS 3025(P-24)-1986		No
21	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	554.0	200 Max.	600 Max.	IS 3025(P-23)-1986		Yes
22	Total Hardness (as CaCO <sub>3</sub> )	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	0.003 Max.	0.003 Max.	IS 3025(P-41)-1992		Yes
25	Cyanide (as CN)	mg/l	BDL	0.05 Max.	0.05 Max.	IS 3025(P-27)-1986		Yes
26	Lead(as Pb)	mg/l	BDL	0.01 Max.	0.01 Max.	IS 3025(P-47)-1994		Yes
27	Mercury (as Hg)	mg/l	BDL	0.001 Max.	0.001 Max.	IS 3025(P-48)-1992		Yes
28	Total Arsenic (as As)	mg/l	BDL	0.01 Max.	0.05 Max.	IS 3025(P-37)-1988		Yes
29	Total Chromium (as Cr)	mg/l	(DL=0.01) BDL	0.05 Max.				Yes
30	E.Coli	Per 100ml	(DL=0.05) Absent	Shall not be deter	ctable in any 100	IS 1622-1981		Yes
31	Total Coliform	Per 100ml	Absent	Shall not be deter	ctable in any 100	IS 1622-1981		Yes
24 25 26 27 28 29 30	Cadmium (as Cd) Cyanide (as CN) Lead(as Pb) Mercury (as Hg) Total Arsenic (as As) Total Chromium (as Cr) E.Coli Total Coliform	mg/l mg/l mg/l mg/l mg/l mg/l Per 100ml	BDL (DL=0.002) BDL (DL=0.05) BDL (DL=0.01) BDL (DL=0.01) BDL (DL=0.01) BDL (DL=0.05) Absent	0.003 Max. 0.05 Max. 0.01 Max. 0.001 Max. 0.01 Max. 0.05 Max. Shall not be detee ml of s	0.003 Max. 0.05 Max. 0.01 Max. 0.001 Max. 0.05 Max. 0.05 Max. ctable in any 100 sample ctable in any 100	IS 3025(P-41)-1992 IS 3025(P-27)-1986 IS 3025(P-47)-1994 IS 3025(P-48)-1992 IS 3025(P-37)-1988 IS 3025(P-52)-2003 IS 1622-1981	AN AN AN	Ye Ye Ye Ye Ye Ye

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

inav D \*\*End of Report\*\*

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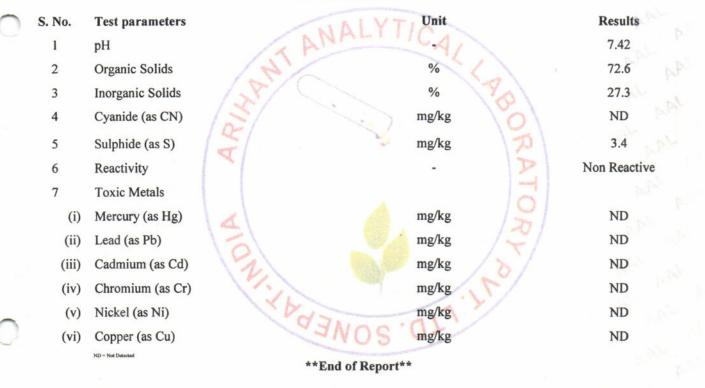




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	(TEST CERTIFIC	(TEST CERTIFICATE)	
		Report No. AAL MIS-20	191225004
Issued To:	M/s Hindustan College of Science & Technology	Date of Receiving:	25/12/2019
	Agra Delhi Highway, NH-2	Date of Starting:	25/12/2019
	Farah, Distt. Mathura -281 122(UP)	Date of Completion:	30/12/2019
		Date of Reporting:	30/12/2019
Sample Description:	One sample described as STP Sludge, was	Sample Quantity:	2 Kgs.
	received.	Sample Packing Condition:	Polythene Packing
		Sample Collected By:	AAL





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### TEST CERTIFICATE

Page 1 of 1

			Report No. AAL ENV-20191225025		
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Date of Receiving:	25/12/2019		
		,	Date of Starting:	25/12/2019	
	Sample Description:	One sample described as Soil, was received.	Date of Completion:	30/12/2019	
	Sample Description.	One sample described as son, was received.	Date of Reporting: Sample Qty.	30/12/2019 2 Kgs.	
			Sample Packing Condition:	Polythene Bag	
			Sample Collected By:	AAL	

#### TEST RESULTS

S. No.	Test Parameters	Unit LYT	Results	Test Method	
1	рН	TAN	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)		D have not	
(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**			



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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



Director Hindustan College of Science & Technology FARAH (MATHURA)



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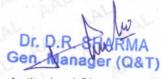
272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana) Ph. : 7082301442, 9250014551 Email : aalkundli@gmail.com Website : www.aalkundli.com

### TEST CERTIFICATE

Lawred Tree	No AMERICAN AND AND	Report No. AAL E	ENV-20200303039	
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	03/03/2020	
	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	03/03/2020	
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	07/03/2020	
Date of Monitoring:	02/03/2020 to 03/03/2020	Date of Reporting:	07/03/2020	
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	

#### TEST RESULT

	Samplin	g Details:		NIN	A PM AV	Pri and and
1	Type of	Monitoring	1 AL	JALY	: Ambient Air Quality M	onitoring
	Monitor	ing Procedure	1x P		: As per IS-5182, P-14	AND AND A
	Location	of Sampling Point	4%		: Near Main Gate	
	Samplin	g Started on	2/0		: 10:00 AM (02/03/2020)	
	Sampling	g Completed on		2	: 10:00 AM (03/03/2020)	
	Actual T	ime of Sampling (Hrs)		~	: 24 Hrs.	
	Average	flow Rate for particulate matter	(m <sup>3</sup> /minute)		: 1.12	
	Total Vo	olume of air sampled for particula	ate matter (m	3)	: 1612.8	An all all all all
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5	$\mu g/m^3$	47.6	60	CPCB Guideline/Gravimetric/
	2	Particulate Matter, PM 10	μg/m <sup>3</sup>	75.8	100	(AAL/SOP/ENV/002) IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	μg/m <sup>3</sup>	10.2	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	µg/m <sup>3</sup>	28.6	80	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg /m <sup>3</sup>	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
	6	Ozone ( as O <sub>3</sub> )	μg/m <sup>3</sup>	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia ( as NH <sub>3</sub> )	$\mu g/m^3$	<20.0	400	CPCB Guideline
	8	Lead (as Pb)	μg/m <sup>3</sup>	<0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
	9	Nickel (as Ni )	ng/ m <sup>3</sup>	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as $C_6H_6$ )	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
			**I	End of Repo	ort**	



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

#### TEST RESULT

	Samplin	g Details:				AL AL AL
7	Type of I	Monitoring	Alt	ALV	. Ambient Air Quality Me	onitoring
	Monitori	ng Procedure	N/N	JALY	: As per IS-5182, P-14	a pl ph ppl
	Location	of Sampling Point	(K M		: Near STP Plant	
	Sampling	g Started on	6%		: 10:35 AM (02/03/2020)	
	Sampling	g Completed on			: 10:35 AM (03/03/2020)	
	Actual T	ime of Sampling (Hrs)		2.	: 24 Hrs.	
	Average	flow Rate for particulate matter	(m <sup>3</sup> /minute)	~	: 1.11	
	Total Vo	lume of air sampled for particula	te matter (m	3)	: 1598.4	
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5	µg/m <sup>3</sup>	43.8	60	CPCB Guideline/Gravimetric/
	2	Particulate Matter, PM 10	µg/m <sup>3</sup>	69.6	100	(AAL/SOP/ENV/002) IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	9.4	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	μg/m <sup>3</sup>	27.5	80	IS-5182(P-6)-2006
1	5	Carbon Monoxide (as CO)	mg /m <sup>3</sup>	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
	6	Ozone ( as $O_3$ )	µg/m <sup>3</sup>	<20.0	100 (8hr)	IS-5182(P-9)-1974
	7	Ammonia ( as NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.0	180 (1hr) 400	/Photometric CPCB Guideline
	8	Lead (as Pb)	$\mu g/m^3$	<0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
	9	Nickel (as Ni )	ng/ m <sup>3</sup>	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
			**]	End of Rep	ort**	



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#### TEST CERTIFICATE

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

#### TEST RESULTS

S. No.	Test Parameter	Unit	Results	(as per CPC	irement CB Guidelines) dB(A) Leq.	
1.	Noise Level	AL 12		Category of Area / Zone	Day Time	Night Time
1. P	Lmin	dB(A)	36.9	A PAN	p. M.	- P1
	L10	dB(A)	63.6	- 101		phi ppt
	L50	dB(A)	54.7		->A*	ph -
	L90	dB(A)	41.9	· · · >	Joi Ma	i per p
	Leq	dB(A)	60.5		1 P P	and a start of
	Lmax	dB(A)	68.8	A / · / P	Nº Nº N	. · · PP
		141	1 - 74	A: Industrial Area	75	70
	Leq-Day	dB(A)	62.1	B: Commercial Area	65	55
				C: Residential Area	55	45
	Leq-Night	dB(A)	46.5	D: Silence Zone	50	40
1.00		pat p	**End of	Report**		

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		Report No. AAL	ENV-20200303042	
Issued To:	M/s Hindustan College of Science &	AAL AL		
	Technology	Date of Receiving:	03/03/2020	
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Starting:	03/03/2020	
Sample Description:	Ambient Noise	Date of Completion:	07/03/2020	
Date of Monitoring:	02/03/2020 to 03/03/2020	Date of Reporting:	07/03/2020	
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	(as per CP	uirement CB Guidelines) 1 dB(A) Leq.	
M	Noise Level	at is	1	Category of Area / Zone	Day Time	Night Time
L. P.	Lmin	dB(A)	35.5	P. P.	PAL al	- pr
	L10	dB(A)	62.7	-10/1	. · · ·	AR AR
	L50	dB(A)	53.2		ph. ph.	at the
	L90	dB(A)	40.8	- 5	at the	part of
	Leq	dB(A)	59.5	· · · · · ·	Phillipping	at at a
	Lmax	dB(A)	68.3	A. / - 0	AN WALL	Pri pr
		4		A: Industrial Area	75	70
	Leq-Day	dB(A)	61.1	B: Commercial Area	65	55
		11/4		C: Residential Area	55	45
	Leq-Night	dB(A)	44.9	D: Silence Zone	50	40
- and			**End of	Report**		

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

#### **TEST RESULT**

Plant/Se	ction	: DG See	ction		all po
Stack Id	entification	NALY : / Stack A	Attached to DG		
Source o	fEmission	: DG Set	1 della		
Capacity	A COM AND	: 250 KV	A-DGN0.1		
Type of	Stack	: Metal	1001		
Diamete	r of Stack	: 12"	No		
Height o	f Stack from Ground Level	: 21m	T	P	
Height f	rom Roof Level	· · · · ·	1 P	apt.	
Height a	t Which Sampling Port	: 12m	14		apt at
Product	Manufacturing	: College	a. 0		
Type of	Fuel Used	: HSD	12		
Normal	Operating Schedule	: As per	requirement		
Duration	of Monitoring	: 30 min	181		
Emission	n Control (if any)	: Nil	1.510		A. A. A.
Observa	tions	W.			
Ambient	Temperature( °C)	GANOC: 31			
Stack Te	mperature (°C)	: 184			
Velocity	(m/s)	: 11.3			
Flow Ra	te(Nm <sup>3</sup> /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 <sub>2</sub> )	g/kw-hr	0.21	SPL-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO <sub>x</sub> )	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
p.p.		**End of Report**			L. P. DP

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#### TEST CERTIFICATE

#### Page 1 of 1

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

### TEST RESULT

·Phan		A AMAL	Pr.				
Plant/Sec		: DG Sec			apt at		
Stack Ide	ntification		ttached to DG		An ap		
Source of	fEmission	: DG Set					
Capacity		: 250 KV	A - D G No.2	Avial			
Type of S	Stack	: Metal	101				
Diameter	of Stack	: 12"	NO				
Height of	f Stack from Ground Level	: 21m	T				
Height fr	om Roof Level		15	all a			
Height at	Which Sampling Port	: 12m	4	A PL			
Product N	Manufacturing	: College	0	10. 42	A MA NO		
Type of I	Fuel Used		: HSD				
Normal Operating Schedule		: As per r	: As per requirement				
Duration	of Monitoring	: 30 min.					
Emission	Control (if any)	: Nil	AV.				
Observa	tions		YP		Mr. Mr. Mar.		
Ambient	Temperature( °C)	JNOC: 32	PL PL				
Stack Te	mperature (°C)	: 178					
Velocity	(m/s)	: 10.8					
Flow Rat	te(Nm <sup>3</sup> /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 <sub>2</sub> )	g/kw-hr	0.24	AL DI	IS 11255(P-2)-1985		
3	Oxide of Nitrogen (as NO <sub>x</sub> )	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		
p.P.		**End of Report**					

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### TEST CERTIFICATE

Page 1 of 1	Page	1	0	f 1
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Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL WQT-20	200303019
155000 10.	Agra Delhi Highway, NH-2	Date of Receiving:	03/03/2020
	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	03/03/2020
A A A A A		Date of Completion:	07/03/2020
Sample Description:	One Sample described as STP Inlet Water, was	Date of Reporting:	07/03/2020
	received.	Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

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

\*\*End of Report\*\*



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AN AL	(TEST CERTIFICATE)	AAL AAL IL AM	Page 1 of 1
at AAL A		Report No. AAL WQT-202	200303020
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving: Date of Starting: Date of Completion:	03/03/2020 03/03/2020 07/03/2020
Sample Description:	One Sample described as STP Outlet Water, was received.	Date of Reporting: Sample Quantity: Sample Packing Condition: Sample Collected By:	07/03/2020 1 Litre Plastic Bottle AAL
A. No. Test para	ANALYTICA	Requirement as per CPCB Guideline Into Inland On land for urface Water Irrigation	Testing Method

1	pH Value	(-)	7.85	5.5 - 9.0	5.5 - 9.0	15 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. 🔵	LAY LAL	IS 3025(P-58)-2006

\*\*End of Report\*\*

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  5. The non-perishable sample received shall be destroyed after one month and perishable sample shall be destroyed after one week from the

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			automation	
1.	TEST	CERT	IFICATE	

	A PARTICIPACITY A PARTICIPACIT		
		Report No. AAL WQT-20	200303021
Issued To:	M/s Hindustan College of Science &		
M. ABY AL	Technology	Date of Receiving:	03/03/2020
	Agra Delhi Highway, NH-2	Date of Starting:	03/03/2020
	Farah, Dist. Mathura -281 122(UP)	Date of Completion:	07/03/2020
Sample Description:	One Sample described as Drinking Water (R O	Date of Reporting:	07/03/2020
apt of	Water) was received.	Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test parameters	Unit	Results		ients As per 500-2012	Testing Method	Conformity
PL P	Colour	Hazen	<5.0	Acceptable Limit 5 Max.	Permissible Limit 15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	¥/.	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3	Taste	2	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	рН	∡∖.	7.13	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
6	Total Hardness (as caco,)	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	NAL TH
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		detectable in any of sample.	IS 1622-1981	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012. \*End of Report\*\*

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Page 1 of 1

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SONEPA	011	Web	site : www.	aalkundli.co	om			
No. B	An way	N	TEST CER	TIFICATE)	AAL AL	Р	age 1 of 1	- AL
	A Min Hendurate	n Callega of Saian	as & Taskualag	AAL AAL	Report No.	AAL WQT-2	20200303022	
Issued 7	Agra Delhi Hig	n College of Scien ghway, NH-2 athura -281 122(U		AAL AAL	Date of Receivin Date of Starting Date of Complet	P DP	03/03/2020 03/03/2020 07/03/2020	0
Sample	Description: One sample de	scribed as Bore w	ell Water, was re	eceived.	Date of Reportin Sample Quantity Sample Packing	ng: y: Condition:	07/03/2020 2 Litre Plastic Bot	0
- P	Part At	APA" ARL	TEST RES		Sample Collecte	100	AAL	p.r.
S. No.	Test parameters	Unit	Results		eents As per 500-2012 Permissible Limit	Testing		Conformit
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P	-4)-1983	Yes
2	Odour	p.P.	Agreeable	Agreeable	Agreeable	IS 3025(P	-5)-2018	Yes
3	pH Value	St. 10 1	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	0.03 Max.	0.2 Max.	IS 3025(P	-55)-2003	Yes
7	Anionic Detergent (as MBAS)	mg/l	(DL=0.03) BDL	0.2 Max.	1.0 Max.	APHA	5540 C	Yes
8	Boron (as B)	mg/l	(DL=0.2) BDL	0.5 Max.	2.4 Max.	IS 3025(P	-57)-2005	Yes
9	Calcium (as Ca)	mg/l	(DL=0.5) 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	0.05 Max.	1.5 Max.	IS 3025(P	-42)-1992	Yes
		m ~/l	(DL=0.05)	1 Max	1 5 Max	IS 3025(P	-60)-1984	Yes

	11	Copper (as Cu)	mg/1	DDL	0.00 1114.			
	12	Fluoride (as F)	mg/l	(DL=0.05) 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	JAN TA
	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 <sub>3</sub> )	mg/l	23.6	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
1	18	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l	BDL	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
ł.	19	Selenium(as Se)	mg/l	(DL=0.001) BDL	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Yes
	20	Sulphate (as SO <sub>4</sub> )	mg/l	(DL=0.01) 638.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No
	21	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	636.0	200 Max.	600 Max.	IS 3025(P-23)-1986	No
	22	Total Hardness (as CaCO <sub>3</sub> )	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	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes
	25	Cyanide (as CN)	mg/l	(DL=0.002) BDL	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes
t.	26	Lead(as Pb)	mg/l	(DL=0.05) BDL	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes
		DAY DAY	mg/l	(DL=0.01) BDL	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Yes
	27	Mercury (as Hg)		(DL=0.001) BDL	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Yes
	28	Total Arsenic (as As)	mg/l	(DL=0.01)	D. D.	No relaxation	IS 3025(P-52)-2003	Yes
	29	Total Chromium (as Cr)	mg/l	BDL (DL=0.05)	0.05 Max.	A. A.	A STATE	- 11
	30	E.Coli	Per 100ml	Absent		ectable in any 100 sample	IS 1622-1981	Yes
	31	Total Coliform	Per 100ml	Absent		ectable in any 100	IS 1622-1981 R	SHAMES

BDL = Below Do uit, DL=D

meet the requirement of IS: 10500:2012. Remarks: The above tested sample does \*\*End of Report\*\*

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ml of sample

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#### TEST CERTIFICATE)

Page 1 of 1

AAL

		Report No. AAL ENV	/-20200303045
Issued To:	M/s Hindustan College of Science &	- A BAL AL	
ART DAL	Technology	Date of Receiving:	03/03/2020
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Starting:	03/03/2020
	1 anal, 2151 Maanala 201 122(01)	Date of Completion:	07/03/2020
Sample Description:	Soil Sample	Date of Reporting:	07/03/2020
		Sample Qty.:	2 Kgs.
		Sample Packing Condition:	Polythene Bag

**TEST RESULT** 

Sample Collected By:

S. No.	Test Parameters	Unit	Results	Test Method
1	pH	AN	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	O 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 MAR MAR
(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
			4	

\*\*End of Report\*\*

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

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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

Somme VDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY

FARAH, MATHURA

Hindustan College of Science & Technology FARAH (MATHURA)

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### (TEST CERTIFICATE)

Issued To:	M/s Hindustan College of Science &	Report No. AAL E	ENV-20210327008	
issued to.	Technology Agra Delhi Highway, NH-2	Date of Receiving:	27/03/2021	
	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	27/03/2021	
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	31/03/2021	
Date of Monitoring:	26/03/2021 to 27/03/2021	Date of Reporting:	31/03/2021	
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	

#### TEST RESULT

1	Sampling	g Details:				
4	Type of N	Aonitoring	- N	ALY	Ambient Air Quality Me	onitoring
	Monitorin	ng Procedure	AP	ALY	: As per IS-5182, P-14	
	Location	of Sampling Point	4		: Near Main Gate	
	Sampling	Started on	10		: 11:00 AM (26/03/2021)	
	Sampling	Completed on			: 11:00 AM (27/03/2021)	
	Actual Ti	me of Sampling (Hrs)		20)	: 24 Hrs.	
	Average f	flow Rate for particulate matter	(m <sup>3</sup> /minute)	2	: 1.15	
		ume of air sampled for particula		3)	: 1656	
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	LAN .	Particulate Matter, PM 2.5	$\mu g/m^3$	48.1	60 20	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
	2	Particulate Matter, PM 10	µg/m <sup>3</sup>	73.2	100	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	9.5	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	µg/m <sup>3</sup>	31.6	80	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	NOS	01 <sup>02(8hr)</sup>	IS-5182(P-10)-1999 Reaff. 2003
	6	Ozone ( as $O_3$ )	$\mu g/m^3$	<20.0	100 (8hr)	IS-5182(P-9)-1974
	7	Ammonia ( as NH <sub>3</sub> )	$\mu g/m^3$	<20.0	180 (1hr) 400	/Photometric CPCB Guideline
	8	Lead (as Pb)	$\mu g/m^3$	< 0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
	9	Nickel (as Ni )	ng/m <sup>3</sup>	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
			**]	End of Rep	ort**	



Page 1 of 1

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44	(TEST CERTIFICATE)		Page 1 of 1	
Issued To:	M/s Hindustan College of Science &	Report No. AAL	ENV-20210327009	
	Technology Agra Delhi Highway, NH-2	Date of Receiving:	27/03/2021	
	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	27/03/2021	
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	31/03/2021	
Date of Monitoring:	26/03/2021 to 27/03/2021	Date of Reporting:	31/03/2021	
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	

#### TEST RESULT

	Sampling	g Details:				
5	Type of M	Monitoring	-	- 1 10	: Ambient Air Quality Me	onitoring
	Monitori	ng Procedure	A N	ALY	: As per IS-5182, P-14	0
	Location	of Sampling Point			: Near STP Plant	
	Sampling	Started on	21		: 11:15 AM (26/03/2021)	
	Sampling	Completed on	10		: 11:15 AM (27/03/2021)	
	Actual Ti	me of Sampling (Hrs)		1	: 24 Hrs.	
	Average	flow Rate for particulate matter (	m <sup>3</sup> /minute)	~)	: 1.1	
	Total Vol	ume of air sampled for particulat	e matter (m <sup>3</sup>	)	: 1584	
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5	$\mu g/m^3$	42.5	60 20	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
	2	Particulate Matter, PM 10	$\mu g/m^3$	66.7	100 -	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	μg/m <sup>3</sup>	8.5	80 >	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	$\mu g/m^3$	29.6	80	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	<0.2	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
)	6	Ozone ( as O <sub>3</sub> )	µg/m <sup>3</sup>	20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia ( as NH <sub>3</sub> )	$\mu g/m^3$	<20.0	400	CPCB Guideline
	8	Lead (as Pb)	μg/m <sup>3</sup>	<0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
	9	Nickel (as Ni)	ng/m <sup>3</sup>	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as $C_6H_6$ )	$\mu g/m^3$	< 0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
			**F	and of Repo	ort**	



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#### Website : www.aalkundli.com (TEST CEPTIEICATE)

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

#### **TEST RESULTS**

S. No.	Test Parameter	Unit	Results	VTI (as per CPC	irement CB Guidelines) dB(A) Leq.	
1	Noise Level	13	n	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	35.4	50	-	-
	L10	dB(A)	61.5	-10		
	L50	dB(A)	49.8	2 9	-	÷.
	L90	dB(A)	44.6	2 . 20	-	-
	Leq	dB(A)	57.2	- 2	-	-
	Lmax	dB(A)	71.4	· · 0		-
		14		A: Industrial Area	75	70
	Leq-Day	dB(A)	58.1	B: Commercial Area	65	55
		2		C: Residential Area	55	45
	Leq-Night	dB(A)	48.4	D: Silence Zone	50	40
		1	**End of	Report**		

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### Website : www.aalkundli.com

### TEST CERTIFICATE

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

#### **TEST RESULTS**

. O <sup>S. No.</sup>	Test Parameter	Unit	Results	VTI (as per CPC	irement CB Guidelines) dB(A) Leq.	
1	Noise Level	13	P.	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	33.6	1.0	-	-
	L10	dB(A)	55.2	10/	-	-
	L50	dB(A)	46.1	. 0		
	L90	dB(A)	40.5	5 . P	-	
	Leq	dB(A)	48.3	· 2		-
	Lmax	dB(A)	69.3			-
	- P	4		A: Industrial Area	75	70
	Leq-Day	dB(A)	49.5	B: Commercial Area	65	55
	4	2		C: Residential Area	55	45
	Leq-Night	dB(A)	44.6	D: Silence Zone	50	40
0		10	**End of	Report**		



Page 1 of 1

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### TEST CERTIFICATE)

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

#### TEST RESULT

Plant/Section		ection		
Stack Identification	NALY TI Stack	Attached to DG		
Source of Emission	: DG S	et		
Capacity		VA-DG No.1		
Capacity Type of Stack	: Metal	171		
Diameter of Stack	: 12"	1001		
Height of Stack from Ground Level	: 21m	101		
Height from Roof Level		120		
Height at Which Sampling Port	: 12m	P		
Product Manufacturing	: Colleg	ge 🛛	1.5	
Type of Fuel Used	: HSD	19		
Normal Operating Schedule	: As per	r requirement		
Duration of Monitoring	: 30 mi	n.		
Emission Control (if any)	: Nil	101		
Normal Operating Schedule Duration of Monitoring Emission Control (if any) <u>Observations</u> Ambient Temperature( °C) Stack Temperature (°C)		· //		
Ambient Temperature( °C)	34			
Stack Temperature (°C)	105: 176			
Velocity (m/s)	: 10.8			
Flow Rate(Nm <sup>3</sup> /hr)	: 1015.2	2		
S. No. Test Parameter	Unit	Results	Limits	<b>Test Methods</b>
1 Particulate Matter (PM)	g/kw-hr	0.13	0.3	IS 11255(P-1)-1985
2 Sulphur Dioxide (as SO <sub>2</sub> )	g/kw-hr	0.35	-	IS 11255(P-2)-1985
3 Oxide of Nitrogen (as NO <sub>x</sub> )	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**			



Page 1 of 1

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### (TEST CERTIFICATE)

Issued To:M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)Report No.AAL ENV-20210327013Sample Description:D G Stack MonitoringDate of Receiving:27/03/2021Date of Monitoring:26/03/2021Date of Completion:31/03/2021Sampling Method:IS:11255 (Part-1 to Part-7)Date of Reporting:31/03/2021	Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	
Issued To:       M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)       Date of Receiving:       27/03/2021         Sample Description:       D G Stack Monitoring       Date of Starting:       27/03/2021	Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Reporting:	31/03/2021	
Issued To: M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP) Date of Receiving: 27/03/2021	Date of Monitoring:	26/03/2021	Date of Completion:	31/03/2021	
Issued To: M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Date of Receiving: 27/03/2021	Sample Description:		Date of Starting:	27/03/2021	
	Issued To:	Technology Agra Delhi Highway, NH-2	Date of Receiving:	27/03/2021	
			Report No. AAL E	ENV-20210327013	

#### TEST RESULT

Plant/Section	: DG S	ection		
Stack Identification	ALVT: Stack	Attached to DG		
Stack Identification Source of Emission	: DG Se	et		
Source of Emission Capacity Type of Stack	: 250 K	VA - D G No.2		
Type of Stack	: Metal	171		
Diameter of Stack	: 12"	101		
Height of Stack from Ground Level	: 21m	101		
Height from Roof Level		R		
Height at Which Sampling Port	: 12m	P	1997	
Product Manufacturing	: Colleg	ge 📃		
Type of Fuel Used	: HSD	19	1 3	
Normal Operating Schedule	: As per	r requirement		
Duration of Monitoring	: 30 min	n.		
Normal Operating Schedule Duration of Monitoring Emission Control (if any) <u>Observations</u> Ambient Temperature( °C) Stack Temperature (°C)	: Nil	121		
Observations		·		
Ambient Temperature( °C)	: 34	17		
Stack Temperature (°C)	NOS : 196			
Velocity (m/s)	: 10.2			
Flow Rate(Nm <sup>3</sup> /hr)	: 956.8			
S. No. Test Parameter	Unit	Results	Limits	<b>Test Methods</b>
1 Particulate Matter (PM)	g/kw-hr	0.14	0.3	IS 11255(P-1)-1985
2 Sulphur Dioxide (as SO <sub>2</sub> )	g/kw-hr	0.47	·	IS 11255(P-2)-1985
3 Oxide of Nitrogen (as NO <sub>x</sub> )	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**			



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	the she	(TEST CERTIFICATE)		Page 1 of 1
	Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL WQT-20	210327005
	Issued For	Agra Delhi Highway, NH-2	Date of Receiving:	27/03/2021
	Farah, Dist. Mathura -281 122(U	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	27/03/2021
			Date of Completion:	31/03/2021
Sample Description:	One Sample described as STP Inlet Water, was	Date of Reporting:	31/03/2021	
		received.	Sample Quantity:	1 Litre
				Plastic Bottle
	1 August		Sample Collected By:	AAL

**TEST RESULT** 

No.	Test parameters	Unit	Results	<b>Testing Method</b>
1	рН	ANALTICA	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	mg/l	117.0	IS 3025(P-44)-1993
5	(BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)	mg/l	390.0	IS 3025(P-58)-2006
	AAL	**End of Report**	TO	
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	(TEST CERTIFICATE)		Page 1 of 1
		Report No. AAL WQT-20	210327006
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	27/03/2021
	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	27/03/2021
		Date of Completion:	31/03/2021
Sample Description: One Sample des received.	One Sample described as STP Outlet Water, was	Date of Reporting:	31/03/2021
	received.	Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

#### TEST RESULT

<b>No</b>	. Test parameters	Unit	Results	Requirement a Guide		Testing Method
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y ANT		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.70	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
	and the second se					

\*\*End of Report\*\*



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D.C	website : www.aaikundii.co	m	
and the second second	(TEST CERTIFICATE)	F	Page 1 of 1
Issued To:	M/s Hindustan College of Science &	Report No. AAL WQT-20	210327007
	Technology	Date of Receiving:	27/03/2021
	Agra Delhi Highway, NH-2	Date of Starting:	27/03/2021
a pre-	Farah, Dist. Mathura -281 122(UP)	Date of Completion:	31/03/2021
Sample Description:	One Sample described as Drinking Water (R O Water) was received.	Date of Reporting:	31/03/2021
		Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

**TEST RESULT** 

Test parameters	Unit	Results	IS: 105	500-2012	Testing Method	Conformity
	15					
Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
Odour	5/-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
		Agreeable	Agreeable	Agreeable	IS 3025(P-7)-2017	Yes
Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
pН	cl -	7.10	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
Total Hardness (as CaCO <sub>3</sub> )	mg/l	36.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
Iron (as Fe)	mg/I	<0.1	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
Chlorides (as Cl)	mg/l	57.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
Residual free chlorine	mg/l	Nil	0.2 Min.	1.0 Min.	IS 3025(P-26)-1986	-
Total Dissolved Solids	mg/l	174.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
Total Coliform	Per 100ml	Absent			IS 1622-1981	Yes
	Colour Odour Taste Turbidity pH Total Hardness (as caco.) Iron (as Fe) Chlorides (as Cl) Residual free chlorine Total Dissolved Solids Fluoride (as F)	ColourHazenOdour-Taste-TurbidityNTUpH-Total Hardness (as CaCO)mg/lIron (as Fe)mg/lChlorides (as Cl)mg/lResidual free chlorinemg/lTotal Dissolved Solidsmg/lFluoride (as F)mg/l	ColourHazen<5.0Odour-AgreeableTaste-AgreeableTurbidityNTU<1.0	ColourHazen<5.0S Max.Odour-AgreeableAgreeableTaste-AgreeableAgreeableTurbidityNTU<1.0	ColourHazen<5.05 Max.15 Max.Odour-AgreeableAgreeableAgreeableTaste-AgreeableAgreeableAgreeableTurbidityNTU<1.0	Is: 10500-2012Acceptable LimitPermissible LimitColourHazen<5.0

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

\*\*End of Report\*\*

(Microbiologist)



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TEST CERTIFICATE       Page         Issued To:       M/s Hindustan College of Science & Technology       Agra Delhi Highway, NH-2       Date of Receiving:       Date of Receiving:       Date of Starting:       Date of Completion:       Sample Quantity:       Sample Collected By:         S. No.       Test parameters       Unit       TEST RESULTS       Requirements As per       Testing Model	27/03/2021 27/03/2021 31/03/2021 2 Litre Plastic Bottle AAL ethod Conformit 0)-1983 Yes 0)-2018 Yes 1)-1983 Yes 0)-2018 Yes	ty
Issued To:       M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)       Date of Receiving: Date of Starting: Date of Completion:         Sample Description:       One sample described as Bore well Water, was received.       Date of Reporting: Sample Quantity: Sample Collected By:         S. No.       Test parameters       Unit       TEST RESULTS Results       Requirements As per       Testing Model	27/03/2021 27/03/2021 31/03/2021 2 Litre Plastic Bottle AAL ethod Conformit 0)-1983 Yes 0)-2018 Yes 1)-1983 Yes 0)-2018 Yes	ły
S. No. Test parameters Unit Results Requirements As per Testing Mo	Yes           Yes	ty
	Yes           Yes	ly
IS: 10500-2012	Y)-2018         Yes           1)-1983         Yes           0)-1984         Yes	
Acceptable Permissible Limit Limit	Y)-2018         Yes           1)-1983         Yes           0)-1984         Yes	
I Colour Hazen <5.0 5 Max. 15 Max. IS 3025(P-4	I)-1983         Yes           0)-1984         Yes	
2 Odour - Agreeable Agreeable IS 3025(P-5	0)-1984 Yes	
- 7.24 - 6.5-8.5 No relaxation IS 3025(P-1)		
4 Turbidity NTU 2.3 1 Max. 5 Max. IS 3025(P-10	6)1984 No	
5 Total Dissolved Solids mg/ 3510.0 500 Max. 2000 Max. IS 3025(P-10	and the second	
6 Aluminium (as Al) mg/l BDL 0.03 Max. 0.2 Max. IS 3025(P-55		
7 Anionic Detergent (as MBAS) mg/l BDL 0.2 Max. I.0 Max. APHA 55-		
8 Boron (as B) mg/l BDL 0.5 Max. 2,4 Max. IS 3025(P-57	7)-2005 Yes	
9 Calcium (as Ca) mg/l 282.0 75 Max. 200 Max. IS 3025(P-40	0)-1991 No	
10 Chlorides (as Cl)	2)-1988 No	
11         Copper (as Cu)         mg/l         BDL (DL=0.05)         0.05 Max.         1.5 Max.         IS 3025(P-42)	2)-1992 Yes	
12 Fluoride (as F) mg/l 0.93 1 Max. 1.5 Max. IS 3025(P-60	0)-1984 Yes	
13 Residual free chlorine / mg/l Nil 0.2 Min. 1.0 Min. IS 3025(P-26	5)-1986 -	
14 Iron (as Fe) mg/l 0.29 1.0 Max. No relaxation IS 3025(P-53	3)-2003 Yes	
15 Magnesium (as Mg) mg/l 219.0 30 Max. 100 Max. IS 3025(P-46	6)-1994 No	
16 Manganese (as Mn) mg/l BDL 0.1 Max. 0.3 Max. IS 3025(P-59	9)-2006 Yes	
17 Nitrate (as NO <sub>3</sub> ) mg/1 12.6 45 Max. No relaxation IS 3025(P-34	4)-1988 Yes	
18 Phenolic Compound (as C6H5OH) mg/1 BDL 0.001 Max. 0.002 Max. IS 3025(P-43	3)-1992 Yes	
19 Selenium(as Se) mg/l BDL S 0.01 Max. No relaxation IS 3025(P-56	6)-2003 Yes	
20 Sulphate (as SO <sub>4</sub> ) mg/l 497.0 200 Max. 400 Max. IS 3025(P-24	4)-1986 No	
21 Total Alkalinity (as CaCO <sub>3</sub> ) mg/l 432.0 200 Max. 600 Max. IS 3025(P-23	3)-1986 Yes	
22 Total Hardness (as CaCO <sub>3</sub> ) mg/l 1610.0 200 Max. 600 Max. IS 3025(P-21	1)-2009 No	
23 Zinc (as Zn) mg/l 0.37 5 Max. 15 Max. IS 3025(P-49	9)-1994 Yes	
24 Cadmium (as Cd) mg/l BDL 0.003 Max. No relaxation IS 3025(P-4)	1)-1992 Yes	
25 Cyanide (as CN) mg/l BDL 0.05 Max. No relaxation IS 3025(P-27	7)-1986 Yes	
26 Lead(as Pb) mg/l BDL 0.01 Max. No relaxation IS 3025(P-47	7)-1994 Yes	
27 Mercury (as Hg) mg/l BDL 0.001 Max. No relaxation IS 3025(P-48	8)-1992 Yes	
28 Total Arsenic (as As) mg/l BDL 0.01 Max. No relaxation IS 3025(P-37		
29 Total Chromium (as Cr) mg/l BDL 0.05 Max. No relaxation IS 3025(P-52		
30 E.Coli Per 100ml Absent Shall not be detectable in any 100 IS 1622-1		
ml of sample		
31 Total Coliform Per 100ml Absent Shall not be detectable in any 100 IS 1622-1 ml of sample	1981 Yes	
BDL - Below Detection Limit / DL-Detection Limit / ASSNUTC	osh Srivastava	
Vinay Dixit **End of Report**	ALYST ionsed Signatory	

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	TES	T CERTIFICATE	Page 1 of 1
		Report No. A	AL MIS-20210327004
Issued To:	M/s Hindustan College of Sc. Technology Agra Delhi Highway, NH-2	ience & Date of Receiving Date of Starting:	
	Farah, Dist. Mathura -281 122	(UP) Date of Completi	
		Date of Reporting	
Sample De		Sludge, was Sample Quantity	2 Kgs.
	received.	Sample Packing	Condition: Polythene Packing
		Sample Collected	By: AAL
S. No.	Test parameters	ALY TIC	Results
S. No.		ALY TICUNIT	
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	- P.	Non Reactive
7	Toxic Metals	TO	
(i)	Mercury (as Hg)	mg/kg	ND
	Lead (as Pb)	mg/kg	ND
(ii)		malka	ND
(ii) (iii)	Cadmium (as Cd)	mg/kg	ND
	Cadmium (as Cd) Chromium (as Cr)	mg/kg	ND
(iii)			

\*\*End of Report\*\*



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### TEST CERTIFICATE

Issued To:	M/s Hindustan College of Science &	керог
	Technology	Date of
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of
	201122(01)	Date of
Sample Description:	Soil Sample	Date of

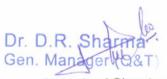
Report No.	AAL ENV	-20210327014
Date of Receivin	g:	27/03/2021
Date of Starting:		27/03/2021
Date of Complet	ion:	31/03/2021
Date of Reportin	ig:	31/03/2021
Sample Qty.:		2 Kgs.
Sample Packing	Condition:	Polythene Bag
Sample Collected	d By:	AAL

Page 1 of 1

**TEST RESULT** 

	S. No.	Test Parameters	Unit YT	Results	Test Method
	1	pH	XANN	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	e (% by mass)		0/
	(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
$\bigcirc$	(c)	Clay	% by mass	16.0	IS 2720(P-4)-1985, Reaff. 2001
			the second s		

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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

wom HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY FARAH, MATHURA

Director Hindustan College of Science & Technology FARAH (MATHURA)

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Website	· WAAAAA	aalku	ndli com
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	(TEST CERTIFICATE)	p.p. p.p.t.	Page 1 of 1
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL I	ENV-20220317020
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	17/03/2022
	A A A A A A A A A A A A A A A A A A A	Date of Starting:	17/03/2022
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	22/03/2022
Date of Monitoring:	16/03/2022 to 17/03/2022	Date of Reporting:	22/03/2022
<b>Purpose of Monitoring:</b>	Self Assessment	Sampling Done By:	AAL

#### TEST RESULT

Sampling Details

	Sampling	Details:				
	Type of M	Aonitoring		1	: Ambient Air Quality Monit	toring
-	Monitoria	ng Procedure		AIV	As per IS-5182, P-14	P' APT AL
	Location	of Sampling Point	A.	ALY	. Near Main Gate	
	Sampling	Started on	150		: 11:10 AM (16/03/2022)	
	Sampling	Completed on	14		: 11:10 AM (17/03/2022)	
	Actual Ti	me of Sampling (Hrs)			: 24 Hrs.	
	Average i	low Rate for particulate matter (m	<sup>3</sup> /minute)	120	: 1.1	
	Total Vol	ume of air sampled for particulate	matter (m <sup>3</sup> )	~	: 1584	
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1 1	Particulate Matter, PM 2.5	$\mu g/m^3$	51.4	60 0 8	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
	2	Particulate Matter, PM 10	μg/m <sup>3</sup>	87.2	100	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	10.8	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	µg/m <sup>3</sup>	35.6	80 0	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
2	6.	Ozone ( as O <sub>3</sub> )	µg/m <sup>3</sup>	<20.0 S	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia ( as NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.0	400	CPCB Guideline
	8	Lead (as Pb)	µg/m <sup>3</sup>	<0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
	9	Nickel (as Ni )	ng/ m <sup>3</sup>	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as $C_6H_6$ )	μg/m <sup>3</sup>	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
			**	End of Repo	rt**	

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### TEST CERTIFICATE

Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL	ENV-20220317021	
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	17/03/2022	
	All shirt in shirt at	Date of Starting:	17/03/2022	
Sample Description	a: Ambient Air Quality Monitoring	Date of Completion:	22/03/2022	
Date of Monitoring	: 16/03/2022 to 17/03/2022	Date of Reporting:	22/03/2022	
Purpose of Monitor	ring: Self Assessment	Sampling Done By:	AAL	

#### TEST RESULT

	Samplin	g Details:				
	Type of M	Monitoring			: Ambient Air Quality Monit	toring
7	Monitori	ng Procedure	1. Pro-	ALV		pro pat il
	Location	of Sampling Point	N/N	ALY	Near STP Plant	MAL AP N
	Sampling	g Started on	150		: 11:25 AM (16/03/2022)	
	Sampling	g Completed on	4		: 11:25 AM (17/03/2022)	
	Actual Ti	ime of Sampling (Hrs)	1/1		: 24 Hrs.	
	Average	flow Rate for particulate matter (m	<sup>3</sup> /minute)	4:00	: 1.15	
	Total Vol	lume of air sampled for particulate	matter (m <sup>3</sup> )	V	: 1656	
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5	μg/m <sup>3</sup>	45.5	60 0	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
	2	Particulate Matter, PM 10	µg/m <sup>3</sup>	69.8	100 -0	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	9.5	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO <sub>2</sub> )	µg/m <sup>3</sup>	32.6	80	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
2	6	Ozone ( as O <sub>3</sub> )	µg/m <sup>3</sup>	<20.0 0 S	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia ( as NH <sub>3</sub> )	μg/m <sup>3</sup>	<20.0	400	CPCB Guideline
	8	Lead (as Pb)	µg/m <sup>3</sup>	<0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
	9	Nickel (as Ni )	ng/ m <sup>3</sup>	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as $C_6H_6$ )	µg/m <sup>3</sup>	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m <sup>3</sup>	<1.0	01	CPCB/GC Method
			**	End of Repo	rt**	



Page 1 of 1

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Website : www.aalkundli.com

AN AN AL	(TEST CERTIFICATE)	p. har ist	Page 1 of 1	Y
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL	ENV-20220317022	
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	17/03/2022	
	1 mm, Dist. Manura -201 122(01)	Date of Starting:	17/03/2022	
Sample-Description:	Ambient Noise	Date of Completion:	22/03/2022	
Date of Monitoring:	16/03/2022 to 17/03/2022	Date of Reporting:	22/03/2022	
Sampling Location:	Near Main Gate	Sampling Method:	By Noise Meter	
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	

S. No.	Test Parameter	Unit	Results	(as per CP	uirement CB Guidelines) n dB(A) Leq.	at apt al
1	Noise Level	1.4	Am	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	36.4	a la la	at at	AN. AL
	L10	dB(A)	65.2	- 70	AM- AAL	nt-
	L50	dB(A)	51.4	) · · · ·	spil - m	Ar PAL
	L90	dB(A)	47.2	3 . 7	Alter	sal and
•	Leq	dB(A)	58.6	- P.	apt out	P. N
	Lmax	dB(A)	70.2	- 2	NL - N	AL .
	Leq-Day	dB(A)	59.5	A: Industrial Area	75	70
			07.0	B: Commercial Area	65	55
	Leq-Night	IDAN	10.2	C: Residential Area	55	45
	Leq-Night	dB(A)	49.2	D: Silence Zone	50	40
		and the	**End of	Report**		

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Website	· W/W/W/	aalkun	dli com
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Net and	Website . www.aaikullull.co	JIII		
	(TEST CERTIFICATE)	AAL AAL	Page 1 of 1	
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL I	ENV-20220317023	
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	17/03/2022	
	1 min, 5 151. Marian 201 122(01)	Date of Starting:	17/03/2022 22/03/2022	
Sample Description:	Ambient Noise	Date of Completion:		
Date of Monitoring:	16/03/2022 to 17/03/2022	Date of Reporting:	22/03/2022 By Noise Meter	
Sampling Location:	Near STP Plant	Sampling Method:		
<b>Purpose of Monitoring:</b>	Self Assessment	Sampling Done By:	AAL	
S. No. Test Parameter	TEST RESULTS Unit Results	Requireme (as per CPCB Gu Limits in dB(A) of Area / Zone D	idelines)	me
Lmin	dB(A) 35.6	1 per ar	AM DAL	

	1.7 '		and the second			0
Lmin	dB(A)	35.6			N. M. PI	- 11 h
L10	dB(A)	59.8	- 70	1 P	· ARI	7
L50	dB(A)	45.2		an a	- pr	Ar
L90	dB(A)	40.7	- 7		-AAV a:AL	
Leq	dB(A)	48.9	- 3	2 ppr	-12-1	P
Lmax	dB(A)	67.3		1	P. AR	1
and and	1		A: Industrial Area	1	75	70 -
Leq-Day	dB(A)	49.8	B: Commercial Area	lain.	65	55
and a set of	191		C: Residential Area	A D	55	45
Leq-Night	dB(A)	44.2	D: Silence Zone		50	40
	XA	**End of R	eport**	alt.		
	100	JNO	C.UT.			

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5. The non-perishable sample received shall be destroyed after 30 days and perishable sample shall be destroyed after 7 days from the date of issue of report unless specified.

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Website	:	www.aa	lk	und	li.	com	
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Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL	ENV-20220317024
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	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

Stack Ide	entification	: Stack	Attached to DG		· pli · 1 P	
Source o	fEmission	ANALYT: DG Se	- KIN			5
Capacity	A. A. A. A.	: 250 K	VA - D G No.1			
Type of s	Stack	: Metal				
Diameter	of Stack	: 12"	1701			
Height of	f Stack from Ground Level	: 21m	No!	pt at		
Height fr	om Roof Level	· · · ·	R	1 pr p		
Height at	Which Sampling Port	: 12m	15	1. Ala		
Product 1	Manufacturing	: College	. 14	P.		
Type of I	Fuel Used	🔺 : HSD	0	lat a		
Normal (	Dperating Schedule	: As per	requirement 7	pro pro	apt in the	
Duration	of Monitoring	: 30 min.		Jan May		
Emission	Control (if any)	: Nil	121			
Observat	tions		1.51			
Ambient	Temperature( °C)	: 32	1.21			
Stack Ter	nperature (°C)	JNOC: 185	N PP			
Velocity	(m/s)	: 10.9	apt at			
Flow Rate	e(Nm <sup>3</sup> /hr)	: 1027.5				
S. No.	Test Parameter	Unit	Results	Limits	Test Methods	
1 1	Particulate Matter (PM)	g/kw-hr	0.11	0.3	IS 11255(P-1)-1985	
2	Sulphur Dioxide (as SO <sub>2</sub> )	g/kw-hr	0.24	. Pr	IS 11255(P-2)-1985	
3	Oxide of Nitrogen (as NO <sub>x</sub> )	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**		P	2,00	



Page 1 of 1

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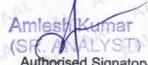
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### TEST CERTIFICATE

Sample Description: Date of Monitoring: Sampling Method: Purpose of Monitoring:	Farah, Dist. Mathura -281 122(U D G Stack Monitoring 16/03/2022 IS:11255 (Part-1 to Part-7) Self Assessment	P)	Date of Receivin Date of Starting Date of Complet Date of Reportin	: 1 tion: 2 ng: 2	17/03/2022 17/03/2022 12/03/2022 12/03/2022	
Turpose of Monitoring.	NAME AND	PAR ANY	Sampling Done	By: A	AAL	
all all all	TES	<u>T RESULT</u>				
Plant/Section	and the second sec	: DG Se	ection			
Stack Identification	P. a. C.	Stack	Attached to DG		apt it	
Source of Emission	ANA	LY : DG Se	et Por p			
Capacity	NI	: 250 K	VA - D G No.2			
Type of Stack	Sel C	: Metal	10/01			
Diameter of Stack	X	: 12"	101			
Height of Stack from Groun	d Level	: 21m	101			
Height from Roof Level	AN ZI	S : -	R			
Height at Which Sampling I	Port	: 12m	P			
Product Manufacturing	NP.Y	: Colleg	je 🚽			
Type of Fuel Used		: HSD	101		Pri -	
Normal Operating Schedule	141	: As per	requirement 7			
Duration of Monitoring	101	: 30 mir	1. <b>X</b>			
Emission Control (if any)	2 at 12 11	: Nil	101			
Observations	121	127	1.5			
Ambient Temperature( °C)	Por Port	: 32	19			
Stack Temperature (°C)	NEPAL	OS: 178				
Velocity (m/s)	A M LAL MAN	: 10.9				
Flow Rate(Nm <sup>3</sup> /hr)		: 941.8				
S. No. Test Parameter		Unit	Results	Limits	Test Methods	
1 Particulate Matt		g/kw-hr	0.12	0.3	IS 11255(P-1)-198	5
2 Sulphur Dioxide		g/kw-hr	0.36		IS 11255(P-2)-198	5
3 Oxide of Nitrog		g/kw-hr	2.84	9.2	IS 11255(P-7)-200	5
4 Carbon Monoxie		g/kw-hr	1.25	3.5	IS 13270-1992	
5 Hydrocarbon (as	s HC)	g/kw-hr	0.88	1.3	By GC	



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End of Report\*

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	(TEST CERTIFICATE)	P Start	Page 1 of 1	_
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL WQT-	20220317071	
	Agra Delhi Highway, NH-2	Date of Receiving:	17/03/2022	
	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	17/03/2022	
		Date of Completion:	22/03/2022	
Sample Description:	One Sample described as STP Inlet Water, was received.	Date of Reporting:	22/03/2022	
		Sample Quantity:	1 Litre	
		Sample Packing Condition:	Plastic Bottle	
34	and the second sec	Sample Collected By:	AAL	
	TEST RESULT	NAY DA		
S. No Test parame	eters Unit	Results	Testing Method	
∩ 1 pH	ANALYTICA	6.87	IS 3025(P-11)-1983	

mg/l

mg/l

mg/l

mg/l

\*\*End of Report\*\*

156.0

4.7

127.0

413.0

Total Suspended Solids 2

3 Oil & Grease

**Biochemical Oxygen Demand** 4 (BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)



IS 3025(P-17)-1984

IS 3025(P-39)-2021

IS 3025(P-44)-1993

IS 3025(P-58)-2006

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### TEST CERTIFICATE

	(TEST CERTIFICATE)		Page 1 of 1
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL WQT-20	220317072
	Agra Delhi Highway, NH-2	Date of Receiving:	17/03/2022
	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	17/03/2022
		Date of Completion:	22/03/2022
Sample Description:	One Sample described as STP Outlet Water, was received.	Date of Reporting:	22/03/2022
		Sample Quantity:	1 Litre
	and par at a population	Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL
All all	TEST RESULT	apt ne pro pa	- AL

S. No.	Test parameters	Unit	Results	Limits as per Environ Rules,1986 Sc General Standards fo	hedule-VI	Testing Method
1	At which and the	ANA		Inland Surface Water	land for Irrigation	
1	pH Value	1	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.	At in	IS 3025(P-58)-2006

\*\*End of Report\*

Srivastav h (SR. ANALYST) Authorised Signatory

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ANALYTICAL LYBORADO	ARIHANT ANALYTICAL LAB AN ISO 9001:2015, ISO 14001:2015, ISO 45001:20 272, Phase-IV, Sec-57, HSIIDC, Kundli, Sone Ph. : 7082301442, 9250014551 Email : aa Website : www.aalkundli.co	18 (OHSAS) pat-131028 Ikundli@gm	CERTIFIED LA (Harvana)	T. LTD. BORATORY	
AL SAL	(TEST CERTIFICATE)	AAVAP	L P	Page 1 of 1	1
P. 5.	and we have apply an and	Report No.	AAL WQT-20	220317073	

g: 17/03/2022
17/03/2022
ion: 22/03/2022
ng: 22/03/2022
y: 1 Litre
Condition: Plastic Bottle
d By: AAL
-

TEST RESULT

S. No.	Test parameters	Unit	Results		ents As per 500-2012	Testing Method	Conformity
The p	At and the	MAX P	NALY	Acceptable Limit	Permissible Limit	ARL ARL	
10	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	3/	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
3.	Taste	5/ -	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	рН		7.12	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
6	Total Hardness (as CaCO <sub>3</sub> )	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/1	51.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l		0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-2021	- al- al
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		detectable in any of sample.	IS 1622-1981	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012. \*\*End of Report\*\*



itosh Srivastava (SR. ANALYST) Authorised Signatory

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Website : www.aalkundli.com

#### **TEST CERTIFICATE**

Page 1 of 1

Authorised Signatory

AAI WOT-20220317074

**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.

ompletion: eporting: uantity: acking Condition:	22/03/2022 22/03/2022 2 Litre Plastic Bottle
eporting: uantity:	22/03/2022
ompletion:	22/03/2022
arting:	17/03/2022
eceiving:	17/03/2022
	0

Report No

C.N.	T	TL-M	TEST RES		. AL	PH BAY	No. a vi
S. No.	Test parameters	Unit	Results		ents As per 00-2012 Permissible	Testing Method	Conformity
1	Colour	Hazen	<5.0	Limit 5 Max.	Limit 15 Max.	IS 3025(P-4)-2021	Yes
2	Odour	p.P	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	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003	Yes
7	Anionic Detergent (as MBAS)	mg/l	(DL=0.03) BDL	0.2 Max.	1.0 Max.	APHA 5540 C	Yes
8	Boron (as B)	mg/l	(DL=0.2) BDL	0.5 Max.	2.4 Max.	IS 3025(P-57)-2005	Yes
9	Calcium (as Ca)	mg/l	(DL=0.5) 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	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992	Yes
12	Fluoride (as F)	mg/l	(DL=0.05) 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	av -
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	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
17	Nitrate (as NO <sub>3</sub> )	mg/l	(DL=0.05) 14.4	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
18	Phenolic Compound (as C6H3OH)	mg/l	BDL	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
19	Selenium(as Se)	mg/l	(DL-0.001) BDL	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Yes
20	Sulphate (as SO <sub>4</sub> )	mg/l	(DL=0.01) 452.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No
21	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	536.0	200 Max.	600 Max.	IS 3025(P-23)-1986	Yes
22	Total Hardness (as CaCO <sub>3</sub> )	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	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes
25	Cyanide (as CN)	mg/l	(DL=0.002) BDL	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes
26	Lead(as Pb)	mg/l	(DL=0.05) BDL	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/l	(DL=0.01) BDL	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Yes
28	Total Arsenic (as As)	mg/l	(DL=0.001) BDL	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Yes
29	Total Chromium (as Cr)	mg/l	(DL-0.01) BDL	0.05 Max.	No relaxation	IS 3025(P-52)-2003	Yes
30	E.Coli	Per 100ml	(DL=0.05) Absent	and the second	ectable in any 100	IS 1622-1981	Yes
31	Total Coliform	Per 100ml	Absent	Shall not be det	f sample ectable in any 100 f sample	IS 162 Dat Ashutosh	Srivastava

BDL = Below I

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

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a la	(TEST CERTIFIC	CATE	Page 1 of 1
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL MIS-20	220317016
	Agra Delhi Highway, NH-2	Date of Receiving:	17/03/2022
	Farah, Dist. Mathura -281 122(UP)	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	Sample Quantity:	2 Kgs.
. p	received.	Sample Packing Condition:	Polythene Packing
		Sample Collected By:	AAL

#### Organic Solids 73.4 2 3 **Inorganic Solids** % 26.6 4 Cyanide (as CN) mg/kg ND 2.4 5 Sulphide (as S) mg/kg Non Reactive 6 Reactivity 7 **Toxic Metals** ND (i) Mercury (as Hg) mg/kg ND (ii) Lead (as Pb) mg/kg ND mg/kg Cadmium (as Cd) (iii) 1.140 mg/kg ND Chromium (as Cr) (iv) mg/kg ND Nickel (as Ni) (v) mg/kg ND (vi) Copper (as Cu) ND = Not Detected \*\*End of Report\*\*

pH

Srivastava ANALYST) Authorised Signatory

7.78

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-anos u		Website : www.aalkur	ndli.com	. PI apr	per per	
Pr ali	and the second	(TEST CERTIFIC/	ATE)	ast is	Page 1 of 1	
		Part of the second	Report No.	AAL ENV	-20220317026	
Issued To	Agra Delhi Highw Farah, Dist. Mathu		Date of Rece	iving:	17/03/2022	
Der.	Faran, Dist. Matht	Ira -281 122(UP)	Date of Start	ting:	17/03/2022	
			Date of Com	pletion:	22/03/2022	
Sample D	escription: Soil Sample		Date of Repo	orting:	22/03/2022	
			Sample Qty.	: PAL DA	2 Kgs.	
			Sample Pack	ing Condition:	Polythene Bag	
1991	and the second second	ne por part	Sample Colle	ected By:	AAL	8
phi phi		TEST RESULT				
S. No.	Test Parameters	Unit	Results	T	est Method	
	pH	NALYTIC	7.78	IS 2720(P-2	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/S	SOP/ENV/010-D	
4	Potassium as K	mg/kg	201.4	AAL/S	SOP/ENV/010-D	
5	Total Kjeldahl Nitrogen	% by mass	0.079	AAL/S	SOP/ENV/010-C	
6	Phosphorus 🧹	mg/kg	72.4	AAL/S	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	O AAL/	SOP/ENV/010-B	
9	Magnesium (as Mg)	mg/kg	335.4	>>> AAL/S	SOP/ENV/010-B	

10 Soil Gran Size Analysis/Texture (% by mass)

(a) Sand(b) Silt

(c) Clay

\*\*End of Report\*\*

% by mass

% by mass

% by mass

71.0

10.0

19.0

IS 2720(P-4)-1985, Reaff. 2001 IS 2720(P-4)-1985, Reaff. 2001 IS 2720(P-4)-1985, Reaff. 2001

Dr. D arma Gen Manager (Q&T)

Authorised Signatory

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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

utami HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY FARAH, MATHURA

Cirector Hindustan College of Science & Technology FARAH (MATHURA)



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V	ebsite	):	WW	/w.a	alku	ndli	.com	1

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

#### TEST RESULT

Sampling Details:

Sampring	Details.				
Type of M	Monitoring		: Amb	ient Air Quality Monitoring	and the second
Sampling	, Method			r IS-5182 (P-14)-2000	SPACE AND
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)	
	me of Sampling (Hrs)		: 24:00	Hrs.	
	flow Rate for particulate matter (m <sup>3</sup>		: 1.15		
	ume of air sampled for particulate r	matter (m <sup>3</sup> )	: 1656		
S. No.	Test Parameters	Unit	Results	Limits NAAQS (Max.)	Test Methods
1	Particulate Matter, PM 2.5	μg/m <sup>3</sup>	51.3	60	IS-5182(P-24)-2019
2	Particulate Matter, PM 10	$\mu g/m^3$	. 92.5	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO <sub>2</sub> )	μg/m³	11.6	80	IS-5182 (P-2)-2001
4	Nitrogen Dioxide (as NO <sub>2</sub> )	μg/m <sup>3</sup>	29.2	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m <sup>3</sup>	<0.5	02 (8hr)	IS-5182(P-10)-1999
6	Ozone (as O <sub>3</sub> )	µg/m³	S <20.0	100 (8hr)	IS-5182(P-9)-1974
7	Ammonia (as NH <sub>3</sub> )	μg/m <sup>3</sup>	<20.0	400	IS-5182(P-25)-2018
8	Lead (as Pb)	μg/m <sup>3</sup>	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni )	ng/ m <sup>3</sup>	<1.0	20	AAL/SOP/008
10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	μg/m <sup>3</sup>	<0.1	05	IS-5182(P-11)-2006
12	Banzo a-pyrene (BaP)	ng/m <sup>3</sup>	<1.0	01	IS-5182(P-12)-2004
		4477 1	6 D		

\*End of Report\*

Page 1 of 1

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### TEST CERTIFICATE

				_
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	
Date of Monitoring:	20/04/2023 to 21/04/2023	Date of Reporting:	26/04/2023	
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	26/04/2023	
		Date of Starting:	21/04/2023	
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	21/04/2023	
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL EN	V-20230421050	

#### TEST RESULT

	Sampling	g Details:			A CALL	P. P. S.
	Type of M	Monitoring		: Ambier	nt Air Quality Monitoring	
-	Sampling	Method			IS-5182 (P-14)-2000	and the second
	Location	of Sampling Point			TP Plant	
	Sampling	Started on		: 11:10 A	M (20/04/2023)	
	Sampling	Completed on			M (21/04/2023)	
	Actual Ti	me of Sampling (Hrs)		: 24:00 H	Irs.	
	Average f	flow Rate for particulate matter (m <sup>3</sup> /	minute)	: 1.25		
	Total Vol	ume of air sampled for particulate n	natter (m <sup>3</sup> )	: 1800		
	S. No.	Test Parameters	Unit	Results	Limits NAAQS (Max.)	Test Methods
	1	Particulate Matter, PM 2.5	μg/m <sup>3</sup>	47.2	60	IS-5182(P-24)-2019
	2	Particulate Matter, PM 10	μg/m³	69.8	100	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO <sub>2</sub> )	μg/m³	10.3	80	IS-5182 (P-2)-2001
	4	Nitrogen Dioxide (as NO <sub>2</sub> )	μg/m³	29.6	. 80 .	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg /m <sup>3</sup>	<0.5	02 (8hr)	IS-5182(P-10)-1999
)	6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	S <20.0	100 (8hr)	IS-5182(P-9)-1974
	7	Ammonia (as NH <sub>3</sub> )	μg/m <sup>3</sup>	<20.0	400	IS-5182(P-25)-2018
	8	Lead (as Pb)	$\mu g/m^3$	<0.1	01	IS-5182(P-22)-2004
	9	Nickel (as Ni )	ng/ m <sup>3</sup>	<1.0	20	AAL/SOP/008
	10	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as $C_6H_6$ )	μg/m <sup>3</sup>	<0.1	05	IS-5182(P-11)-2006
	12	Banzo a-pyrene (BaP)	ng/m <sup>3</sup>	<1.0	01	IS-5182(P-12)-2004

\*End of Report\*\*



Page 1 of 1

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			Page 1 of 1	
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL ENV	-20230421051	
put april ar	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	21/04/2023	
		Date of Starting:	21/04/2023	
Sample Description:	Ambient Noise	Date of Completion:	26/04/2023	
Date of Monitoring:	20/04/2023 to 21/04/2023	Date of Reporting:	26/04/2023	
Sampling Location:	Near Main Gate	Sampling Method:	By Noise Meter	
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	
Pri alla alla	P SP P	A BAN	N. Pro	-

#### TEST RESULTS

S. No.	Test Parameter	Unit	Results	(as per CP	uirement CB Guidelines) n dB(A) Leq.	
1	Noise Level		ANT	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	35.9	Call and	No.	p.p. ply
	L10	dB(A)	64.8	10	Phr. BAL	
	L50	dB(A)	57.3	S YON	we was	por ,
	L90	dB(A)	49.2	5 · N	i philip	and and
	Leq	dB(A)	60.3	- P.	AL AL	P. p.
	Lmax	dB(A)	72.5		L . P	5.P.
	Leq-Day	dB(A)	60.8	A: Industrial Area	75	70
	Deq-Day	db(A)	00.8	B: Commercial Area	65	55
	Leq-Night	dB(A)	49.5	C: Residential Area	55	45
	Leq-Mgin	dB(A)	49.5	D: Silence Zone	50	40
- March			**End of	Report**		2ª play

Dr. D Gen.

Authorised Signatory

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### TEST CERTIFICATE

D.J. A.M.			
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL
Sampling Location:	Near STP Plant	Sampling Method:	By Noise Meter
Date of Monitoring:	20/04/2023 to 21/04/2023	Date of Reporting:	26/04/2023
Sample Description:	Ambient Noise	Date of Completion:	26/04/2023
port of the stand	in this this is a loss that	Date of Starting:	21/04/2023
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	21/04/2023
		Report No. AAL ENV	V-20230421052

#### TEST RESULTS

S. No.	Test Parameter	Unit	Results	(as per CP	uirement CB Guidelines) 1 dB(A) Leq.	
1	Noise Level			Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	35.1	1. 1. 3.		St. R.
	L10	dB(A)	59.3	Pol	P.M AV	-
	L50	dB(A)	48.2		· sha	
	L90	dB(A)	43.8		n war	· ·
	Leq	dB(A)	49.7	· >	Phil. N	
	Lmax	dB(A)	62.6		. P. 18	
	L D	(ID/I)		A: Industrial Area	75	70
	Leq-Day	dB(A)	50.3	B: Commercial Area	65	55
	Les Maht			C: Residential Area	55	45
	Leq-Night	dB(A)	41.8	D: Silence Zone	50	40
			**End of	Report**		

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### TEST CERTIFICATE

Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	
Dunnass of Monitoring	Self Assessment	Samalina Dana Bau	A A T	
Sampling Method:	IS:11255 (Part-1 to Part-7)	Date of Reporting:	26/04/2023	
Date of Monitoring:	20/04/2023	Date of Completion:	26/04/2023	
Sample Description:	D G Stack Monitoring	Date of Starting:	21/04/2023	
issued 10.	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	21/04/2023	
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL I	ENV-20230421053	

### TEST RESULT

Plant/Sec	tion	: DG Sec	tion	in the	and the second
Stack Ide	ntification	: Stack A	ttached to DG		
Source of	Emission	NALY : DG Set			
Capacity		: 250 KV	A - D G No.1		
Type of S	tack	: Metal			
Diameter	of Stack	: 12"			
Height of	Stack from Ground Level	: 21m			
Height fro	om Roof Level	No.			
Height at	Which Sampling Port	; 12m			
Product N	lanufacturing	: College			
Type of F	uel Used	: HSD			and the second
Normal O	perating Schedule	: As per r	equirement		
Duration	of Monitoring	: 30 min.			1 P. 1
Emission	Control (if any)	: Nil			
Observat	ions		( N/ 10 1	plu i	Pro para
Ambient	Femperature( °C)	: 34			
Stack Ten	nperature (°C)	JNOS : 0172			
Velocity (	m/s)	: 10.8	Str in		2.04
Flow Rate	(Nm <sup>3</sup> /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 <sub>2</sub> )	g/kw-hr	0.21	1. 1.	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO <sub>x</sub> )	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**			_,



Page 1 of 1

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		(ILOI C	ERTITIORIE			Page 1 0	DI I
	Level Te		- Philippi	Report No.	AAL ENV-	20230421054	
	Issued To:	M/s Hindustan College of Scien Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(U		Date of Receiving	g: 2	1/04/2023	10
	Sample Description:	D G Stack Monitoring		Date of Starting:	2	1/04/2023	
	Date of Monitoring:	20/04/2023		Date of Completi		6/04/2023	
	Sampling Method:	IS:11255 (Part-1 to Part-7)	par april	Date of Reporting		6/04/2023	
	Purpose of Monitoring:	Self Assessment	NY P	Sampling Done B	y: A	AL	
		<u>TES</u>	T RESULT		Strange Strange	P	-
	Plant/Section		: DG Sec	ction			
	Stack Identification		A PARTY	Attached to DG			
٢	Source of Emission	NAL NA	LYT: DG Set				
	Capacity			/A - D G No.2			
	Type of Stack		: Metal				
	Diameter of Stack	8	: 12"			phe inte	
	Height of Stack from Ground	Level	: 21m				
	Height from Roof Level		V				
	Height at Which Sampling Por	rt 🔨	: 12m				
	Product Manufacturing		: College				
	Type of Fuel Used		: HSD				
	Normal Operating Schedule		: As per r	requirement			
	Duration of Monitoring		: 30 min.				
	Emission Control (if any)		: Nil				
	Observations						
	Ambient Temperature( °C)		: 34	· <b>Y</b> /		Set and	
-	Stack Temperature (°C)	MED	168				
	Velocity (m/s)		: 10.8				
	Flow Rate(Nm <sup>3</sup> /hr)		: 995.3	1.0			
	S. No. Test Parameter		Unit	Results	Limits	Test Met	hada
	1 Particulate Matter	(PM)	g/kw-hr	0.13	0.3	IS 11255(P-1	
	2 Sulphur Dioxide (a		g/kw-hr	0.27	0.5		
	3 Oxide of Nitrogen		g/kw-hr	2.42	9.2	IS 11255(P-2	
	4 Carbon Monoxide		g/kw-hr	1.66	3.5	IS 11255(P-7	
	5 Hydrocarbon (as H		g/kw-hr	0.75	1.3	IS 13270-1	
		***	6 D	0.75	1.5	By GC	e

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\*\*End of Report\*\*



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Website : www.aalkundli.com         TEST CERTIFICATE       Page 1 of 1         Issued To:       M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)       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 Description:       One Sample described as STP Inlet Water, was received.         TEST RESULT       3         S. No. Test parameters       Unit       Results       Testing Method         1       pH       Intervention       6.72       IS 3025(P-11)-1983         2       Total Suspended Solids       mg/l       152.0       IS 3025(P-17)-1984							
Page 1 of 1							
T-20230421008							
21/04/2023							
21/04/2023							
26/04/2023							
26/04/2023							
1 Litre							
n: Plastic Bottle							
AAL							
And and and							
Testing Method							
IS 3025(P-11)-1983							
IS 3025(P-17)-1984							
IS 3025(P-39)-2021							
IS 3025(P-44)-1993							
IS 3025(P-58)-2006							
. P pla							

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SONES		Nebsite : w	ww.aalkund	li.com		A Carlos	
10	and the second second	(TEST C	ERTIFICAT	E)		Page 1 of 1	
ssued To	: M/s Hindustan College of S	Science & Techr	ology	Report No.	AAL WQT-2	20230421009	
	Agra Delhi Highway, NH-2		IOIOE9	Date of Red	ceiving:	21/04/2023	
	Farah, Dist. Mathura -281 12	22(UP)		Date of Sta	rting:	21/04/2023	
				Date of Con	mpletion:	26/04/2023	
Sample De	escription: One Sample described as ST	TP Outlet Water, was received.		Date of Rej	porting:	26/04/2023	
	at a property and			Sample Qu	antity:	1 Litre	
				Sample Pac	cking Condition:	Plastic Bottle	
	the second second	200		Sample Col	llected By:	AAL	
S. No.	Test parameters	s Unit Results		Rules,1986 Se	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge into		
				Inland Surface Water	land for Irrigation		
1	pH Value	1	7.62	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-198	
2	Total Suspended Solids	mg/l	20.0	100 Max.	200 Max.	IS 3025(P-17)-198	
3	Oil & Grease	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-202	
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	17.0	30 Max. 子	100 Max.	IS 3025(P-44)-199	

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1	D. SONEPA	IT		Web	site : www.a		m	licom		100
) }	2 Bar		D.P.L	(	TEST CERT	IFICATE)	APA SAL	- P	Page 1 o	f 1
in in in its second	Issued T Sample	°o: Description:	Agra Delhi Hig Farah, Dist. Ma	hway, NH-2 athura -281 122	ience & Technold (UP) king Water (R O	L. M.	Report No. Date of Receivi Date of Starting Date of Comple Date of Report Sample Quanti Sample Packing Sample Collect	g: etion: ing: ty: g Condition:	023042101 21/04/202 21/04/202 26/04/202 26/04/202 1 Litre Plastic Bo AAL	23 23 23 23
30					TEST RES	SULT				10 PC
	S. No.	Test parame	ters	Unit	Results		nents As per 500-2012	Testing	Method	Conformity
$\cap$	1				NALY	Acceptable Limit	Permissible Limit			and the second
	1	Colour	i phi	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P	-4)-2021	Yes
	2	Odour ·		<u>z</u> /-	Agreeable	Agreeable	Agreeable	IS 3025(P	-5)-2018	Yes
	3	Taste	1019	5/ -	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		1 -	7.11	6.5-8.5	No relaxation	IS 3025(P-	11)-1983	Yes
	6.	Total Hardnes	ss (as CaCO <sub>3</sub> )	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
0	9	Residual free	chlorine	mg/l	S OINING S	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-	26)-2021	- N
	10	Total Dissolve	ed 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)		N N	IS 3025(P-:	35)-1988	er an
	12	Fluoride (as F	)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-0	50)-1984	Yes
	13	Total Coliforn	n	Per 100ml	Absent		etectable in any f sample.	IS 15185	-2016	Yes

Remark: The above tested parameters meet the requirement of IS: 10500-2012. \*\*End of Report\*\*

Dr

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2	a pl		p. P. L.	Τ)	EST CERT	IFICATE)	A. May	Pa	age 1 of 1	S. S.L.	
	Issued	То:	M/s Hindu	istan College of Sci	ence & Techno	logy	Report No.	AAL WQT-2	202304210	)11	
		plat and	Agra Delhi	Highway, NH-2 . Mathura -281 122(	Date of Receiving: Date of Starting:		21/04/2023				
	Sample	Description:	ription: One sample described as Bore well Water, was received.					Date of Completion: Date of Reporting:		26/04/2023 26/04/2023	
			and and			· · par · pa	Sample Quant Sample Packin	g Condition:	2 Litre Plastic E	Bottle	
-		1	and and	and a second	TEST RES	ULTS	Sample Collect	led By:	AAL		
	S. No.	Test paramet	ers	Unit	Results ·	IS: 105 Acceptable	ents As per 500-2012 Permissible	Testing M	lethod	Conformi	ty
	1	Colour		Hazen	10	Limit 5 Max.	Limit 15 Max.	IS 3025(P-4	4)-2021	Yes	
	2	Odour		Pr de	Agreeable	Agreeable	Agreeable	IS 3025(P-	5)-2018	Yes	
	3	pH Value			7.55	6.5-8.5	No relaxation	IS 3025(P-1	1)-1983	Yes	
		T 1 1 11.			and the second s	and the second se			Contraction of the second		

					-			1.00	
	3	pH Value	2 P	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 <sub>3</sub> )	mg/l	27.6	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes	
	18	Phenolic Compound (as C <sub>6</sub> H <sub>3</sub> OH)	mg/l	ND(DL=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes	
١	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 <sub>4</sub> )	mg/l	638.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No .	
	21	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	716.0	200 Max.	600 Max.	IS 3025(P-23)-1986	No	
	22	Total Hardness (as CaCO <sub>3</sub> )	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 <sub>2</sub> )	mg/l	0.45	. 200		IS 3025(P-35)-1988	-	
	31	E.Coli	Per 100ml	Absent	Shall not be dete	ectable in any 100	IS 15185-2016	Yes	
								1.00	

ND = Not Detected, DL=Detection Limit

Total Coliform

32

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

\*\*End of Report\*\*

Absent

ml of sample

Shall not be detectable in any 100

ml of sample

Yes

p

ZMA

IS 15185-2016

Dr. D. R

(Microbiologist

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Per 100ml

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Website : www.aalkundli.com

		T	EST CER	TIFICATE		Pag	elofl	
Issued T Sample	Agra Delhi Hig	athura -281 122(U		ogy	Report No. Date of Receivin Date of Starting Date of Comple Date of Reportin Sample Quantit Sample Packing	:: 2 tion: 2 ng: 2 y: 1	1/04/202 1/04/202 6/04/202 6/04/202 5 Litre	3 3 3 3
- p.P	the second second	Ser Sec	1 pt	- philippi	Sample Submitt		lastic Bot Customer	lie
			TEST RE	SULTS				
S. No.	Test parameters	Unit	Results	IS: 10: Acceptable	tents As per 500-2012 Permissible	Testing Me	thod	Conformit
1	Colour	Hazen	<5.0	Limit 5 Max.	Limit 15 Max.	IS 3025(P-4)	-2021	Yes
2	Odour	1.1-5	Agreeable	Agreeable	Agreeable	IS 3025(P-5)		Yes
3	pH Value	Nº D	7.29	6.5-8.5	No relaxation	IS 3025(P-11)		Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)		Yes
5	Total Dissolved Solids	mg/l	398.0	500 Max.	2000 Max.	IS 3025(P-16		Yes
6	Aluminium (as Al)	mg/l	ND(D_=0.03)	0.03 Max.	0.2 Max.	IS 3025(P-55)	and the second second	Yes
7	Anionic Detergent (as MBAS)	mg/l	ND(DL=0.2)	0.2 Max.	1.0 Max.	APHA 554		Yes
8	Boron (as B)	mg/l	ND(DL=0.5)	0.5 Max.	0.5 Max.	IS 3025(P-57)		Yes
9	Calcium (as Ca)	mg/l	29.0	75 Max.	200 Max.	IS 3025(P-40)		Yes
10	Chlorides (as Cl)	mg/l	180.0	250 Max.	1000 Max.	IS 3025(P-32)		Yes
11	Copper (as Cu)	mg/l	ND(DL=0.05)	0.05 Max.	1.5 Max.	IS 3025(P-42)		Yes
12	Fluoride (as F)	mg/l	0.36	1 Max.	1.5 Max.	IS 3025(P-60)		Yes
13	Residual free chlorine	mg/l	Nil	0.2 Min.	1.0 Min.	IS 3025(P-26)		-
14	Iron (as Fe)	mg/l	0.16	(when Chlorinated) 1.0 Max.	(when Chlorinated) No relaxation			
15	Magnesium (as Mg)	mg/l	15.0	30 Max.	100 Max.	IS 3025(P-53)		Yes
16	Manganese (as Mn)	mg/l	ND(DL=0.05)	0.1 Max.	0.3 Max.	IS 3025(P-46)		Yes
17	Nitrate (as NO <sub>3</sub> )	mg/l	4.4	45 Max.	No relaxation	IS 3025(P-59)		Yes
18	Phenolic Compound (as C <sub>6</sub> H <sub>3</sub> OH)	mg/l	ND(DI =0.001)	0.001 Max.	0.002 Max.	IS 3025(P-34) IS 3025(P-43)		Yes
19	Selenium(as Se)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-43) IS 3025(P-56)		Yes
20	Sulphate (as SO <sub>4</sub> )	mg/l	66.0	200 Max.	400 Max.			Yes
21	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	112.0	200 Max.	600 Max.	IS 3025(P-24)		Yes
22	Total Hardness (as CaCO <sub>3</sub> )	mg/l	128.0	200 Max.	600 Max.	IS 3025(P-23)		Yes
23	Zinc (as Zn)	mg/l	ND(DL=0.05)	5 Max.	15 Max.	IS 3025(P-21)		Yes
24	Cadmium (as Cd)	mg/l	ND(DL=0.002)	0.003 Max.	No relaxation	IS 3025(P-49)		Yes
25	Cyanide (as CN)	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-41) IS 3025(P-27)		Yes
26	Lead(as Pb)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-27)		Yes
27	Mercury (as Hg)	mg/l	ND(DL=0.01)	0.001 Max.	No relaxation			Yes
28	Total Arsenic (as As)	mg/l	ND(DL=0.001)	0.01 Max.	No relaxation	IS 3025(P-48)		Yes
29	Total Chromium (as Cr)	mg/l	ND(DL=0.05)	0.01 Max.	No relaxation	IS 3025(P-37)		Yes
30	Silica (as SiO <sub>2</sub> )	mg/l	0.12	0.00 max.	-	IS 3025(P-52) IS 3025(P-35)		Yes
31	E.Coli	Per 100ml	Absent		ctable in any 100 sample	IS 15185-20		Yes
	Total Coliform	Per 100ml	Absent	Shall not be deter	ctable in any 100 sample	IS 15185-20	16	Yes
	ND = Not Detected, DL=Detection Limit	vit	**End of R	eport**		Dr. D. Gen, A	R. St	ARMA

Vinay Dixit (Microbiologist)

Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. 2. Total liability of our laboratory is limited to the invoice amount.

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4. This report shall not be used in any advertising media or as evidence in the court of law without prior written consent of the laboratory. 5. The non-perishable sample received shall be destroyed after 30 days and perishable sample shall be destroyed after 7 days from the



AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OHSAS) CERTIFIED LABORATORY

272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana) Ph. : 7082301442, 9250014551 Email : aalkundli@gmail.com Website : www.aalkundli.com

		vicosite . www.daikuitdi.	COM		
	and the	(TEST CERTIFICATE		Page 1 of 1	
	Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP) : One sample described as STP Sludge, was received.	<b>Report No.</b> AAL MIS-20230421008		
	Sample Description:		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 Kgs.	
			Sample Packing Condition:	Polythene Packing	
	and the second second		Sample Collected By:	AAL	
					-

(Protocol: APHA/AAS/CPCB Guidelines)

	S. No.	Test parameters	Unit	Results
,	1	pH	NALYTICA	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	V A A	Non Reactive
	7	Toxic Metals		Press Press
	(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)	ZNOS Omg/kg	ND
		ND = Not Detected	**End of Report**	

Dr

Authorised Signatory

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### TEST CERTIFICATE

Page 1 of 1

Issued To:	M/s Hindustan Colles	e of Science & Technology	Report No.	AAL ENV-	20230421055
issueu 10.	Agra Delhi Highway, N	NH-2	Date of Receiving:		21/04/2023
	Farah, Dist. Mathura -2	281 122(UP)	Date of Start		21/04/2023
	A Start Brand			Date of Completion:	
Sample Description: Soil Sample			Date of Reporting:		26/04/2023 26/04/2023
A.	As Market			Sample Qty.:	
			Sample Packing Condition		2 Kgs. : Polythene Bag
2PM	and a poly of the	in the second	Sample Colle	ected By:	AAL
		TEST RESULT			
S. No.	Test Parameters	Unit	Results		Test Method
1	рН	NALYTI	7.93	IS 2720(1	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	AAI	L/SOP/ENV/010-D
5	Total Kjeldahl Nitrogen	% by mass	0.061	AAI	L/SOP/ENV/010-C
6	Phosphorus	mg/kg	71.2	AAI	L/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	O AAI	L/SOP/ENV/010-B
9	Magnesium (as Mg) 🛛 🚄	mg/kg	320.5	AAI	/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. F Gen. Ma

Authorised Signatory

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

## CERTIFICATE OF ACCREDITATION

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has been assessed and accredited in accordance with the standard

## ISO/IEC 17025:2017

## "General Requirements for the Competence of Testing & **Calibration Laboratories''**

for its facilities at

PLOT NO. 272, SECTOR-57, PHASE-IV, SONIPAT, HARYANA, INDIA

in the field of

### TESTING

Certificate Number:

TC-5826

**Issue Date:** 

01/06/2022

Valid Until:

31/05/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

me 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

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in the field of

## TESTING

Certificate Number:

**Issue Date:** 

TC-5826 01/06/2019

Valid Until:

31/05/2021\*

\*The validity is extended for one year up to 31.05.2022

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Signed for and on behalf of NABL



relation

N. Venkateswaran Chief Executive Officer



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Signed for and on behalf of NABL

Anil Relia Chief Executive Officer

N. Venkateswaran

**Program Director**