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

hice HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY FARAH, MATHURA

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 Elerah, 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

hommo HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY FARAH, MATHURA

Director

Hindustan College of Science & Technology FARAH (MATHURA)



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TEST CERTIFICATE

Page 1 of 1

Date of Monitoring: 11/06/2018 to 12/06/2018	Date of Reporting:	16/06/2018
f and		
Sample Description: Ambient Air Quality Monitoring	Date of Completion:	16/06/2018
Faran, Distt. Mathura -281 122(UP)	Date of Starting:	12/06/2018
Issued To: M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	12/06/2018

TEST RESULT

	Samplin	ng Details:				
	Type of	Monitoring			: Ambient Air Quality M	onitoring
-	Monitor	ing Procedure	-	MAL	V T : As per IS-5182, P-14	all all
	Location	of Sampling Point	61	NW	: Near Main Gate	
	Samplin	g Started on	SN'		: 10:10 AM (11/06/2018)	
	Samplin	g Completed on	5/0		: 10:10 AM (12/06/2018)	
	Actual T	ime of Sampling (Hrs)	S/		: 24 hrs.	
	Average	flow Rate for particulate matter	(m ³ /min.)		: 1.15	
	Total Vo	olume of air sampled for particul	ate matter	(m^3)	: 1656	
	S. No.	Test Parameters	Unit	Results	Limits NAAOS Monitoring	Test Methods
					& Analysis Guidelines	
		No. In the second			Volume-I	
	1	Particulate Matter, PM 2.5	$\mu g/m^3$	51.61	60	SOP-(AAL/SOP/ENV/002)/
	2	Particulate Matter DM		04.22		CPCB Guideline
	2	Faiticulate Matter, FM 10	μg/m	94.22	100	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO ₂)	µg/m°	14.30	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO ₂)	µg/m°	28.17	80	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m ³	<0.2	02 (8hr)	IS-5182(P-10)-1999
	1.25%		NP.	1-	04 (1hr)	Reaff. 2003
-	6	Ozone (as O_3)	µg/m'	21.40	C 100 (8hr)	IS-5182(P-9)-1974
	7	Amount (- NUL)	, 3		180 (1hr)	/Photometric
	/	Ammonia (as NH ₃)	μg/m [°]	20.50	400	Indo-Phenol Blue Method
	8	Lead (as Pb)	µg/m³	0.09	01	IS-5182(P-22)-2004
	9	Nickel (as Ni)	ng/m ³	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic' (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C_6H_6)	$\mu g/m^3$	< 0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene' (Bap)	ng/m ³	<1.0	01	CPCB/GC Method
				End o	f Report	



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			100
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Reporting:	16/06/2018
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	16/06/2018
	Parall, Distt. Mathura -201 122(OF)	Date of Starting:	12/06/2018
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	12/06/2018
		Report No. AAL EN	V-2018061200

TEST RESULT

Samp	ing Details:				
Туре с	of Monitoring		and the second second	: Ambient Air Quality	Monitoring
Monito	oring Procedure	/	NAL	As per IS-5182, P-14	
Locati	on of Sampling Point	11	VNU-	: Near Girl Hostel Gate	
Sampl	ing Started on	21		: 10:30 AM (11/06/2018) AL
Sampl	ing Completed on	~/(: 10:30 AM (12/06/2018)
Actual	Time of Sampling (Hrs)	5/ ~		: 24 hrs.	- Vala
Averag	ge flow Rate for particulate matter	(m ³ /min.)	i.	\rightarrow : 1.1 $\langle O \rangle$	
Total V	Volume of air sampled for particul	ate matter	(m ³)	: 1584	
S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring	Test Methods
				& Analysis Guidelines	
	5.			Volume-I	
1	Particulate Matter, PM 2.5	$\mu g/m^3$	44.11	60	SOP-(AAL/SOP/ENV/002)/
2	Particulate Matter, PM 10	µg/m ³	82.75	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	13.50	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	28.70	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m ³	<0.2	02 (8hr)	IS-5182(P-10)-1999
- AN		V Po	171	04 (1hr)	Reaff. 2003
6	Ozone (as O_3)	µg/m³	21.20	S (1 100 (8hr)	IS-5182(P-9)-1974
7	Ammonia (as NH ₂)	$\mu g/m^3$	20.40	180 (1hr) 400	/Photometric
8	Lead (as Pb)	$\mu g/m^3$	0.08	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m^3	<1.0	20	IS-5182(P-22)-2004
10	Arsenic [*] (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₂ H ₂)	$\mu g/m^3$	<0.1	05	NISOH 6015 2005
12	Banzo a-pyrene' (Bap)	ng/m^3	<1.0	01	CPCB/GC Method
			End o	f Report	CI CD/GC Miculou
			Lind 0		



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Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL ENV-20180612005		
	Agra Delhi Highway, NH-2	Date of Receiving:	12/06/2018	
	Faran, Distt. Mathura -281 122(UP)	Date of Starting:	12/06/2018	
Sample Description:	Ambient Noise	Date of Completion:	16/06/2018	
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Reporting:	16/06/2018	
Sampling Location:	Near Main Gate	Sampling Method:	By Noise Meter	
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Rec (as per CI Limits	uirement PCB Guidelines n dB(A) Lea.	PAN (
1	Noise Level	X P		Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	39.7	12	-	-
	L10	dB(A)	66.2	0		
	L50	dB(A)	56.2	101		
	L90	dB(A)	52.5	2		
	Leq	dB(A)	62.6	- 4		M
	Lmax	dB(A)	70.4	- lol		P.P.
		4		A: Industrial Area	75	70
	Leq-Day	dB(A)	63.1	B: Commercial Area	65	55
		12	- The second	C: Residential Area	55	45
	Leq-Night	dB(A)	51.7	D: Silence Zone	50	40
		d	**End of Report	110		



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	Agra Delhi Highway, NH-2	Date of Receiving:	12/06/2018	
	Faran, Disti. Mathura -281 122(UP)	Date of Starting:	12/06/2018	
Sample Description:	Ambient Noise	Date of Completion:	16/06/2018	
Date of Monitoring:	11/06/2018 to 12/06/2018	Date of Reporting:	16/06/2018	
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	Req	uirement	
		N	NALYT	ICA (as per CF Limits i	CB Guidelines n dB(A) Leq.) PP
1	Noise Level	155		Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	38.1	15-07	-	-
	L10	dB(A)	64.9	10		
	L50	dB(A)	56.3	101		
	L90	dB(A)	46.5	12		
	Leq	dB(A)	61.8	- 4	•	-
	Lmax	dB(A)	68.6	- 101		WAY-
		4		A: Industrial Area	75	70
	Leq-Day	dB(A)	62.5	B: Commercial Area	65	55
		2		C: Residential Area	55	45
	Leq-Night	dB(A)	48.7	D: Silence Zone	50	40
		d	**End of Report	1**11		
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^{5.} date of issue of report unless specified.



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Issued To:	M/a Uindustan Callege of Salarse & Taskaslarse	Report No. AAL EN	V-20180612007
issued 10:	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/Se	ection	and the second	: D G Section		
Stack Id	entification	NALY	: Stack Attache	d to D G	
Source of	of Emission	AN	: D G Set		
Capacity	4	1	: 500 KVA		
Type of	Stack		: Metal	0	
Diamete	er of Stack		: 8"	NO N	
Height o	of Stack from Ground Level	~	: 23m	T	
Height f	rom Roof Level		: -	ISI	
Height a	t Which Sampling Port		: 10m	4	
Product	Manufacturing		: College	0	
Type of	Fuel Used		: HSD	121	
Normal	Operating Schedule		: As per require	ment	
Duration	n of Monitoring		: 30 min.	8/	
Emission	n Control (if any)		: Nil	-/	
Observa	ations	bas	-177		
Ambient	t Temperature(°C)	SONES	: 38		
Stack Te	emperature (°C)	and the second se	: 220		
Velocity	(m/s)		: 10.50		
Quantity	of emission (Nm ³ /hr.)		: 298.8		
S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (as PM)	g/kw-hr	0.12	0.3	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	1.05	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	3.45	9.2	IS 11255(P-7)-2005
4	Carbon Monoxide (as CO)	g/kw-hr	1.52	3.5	By GC
5	Hydrocarbon* (as HC)	g/kw-hr	0.82	1.3	By GC
		End of Re	port		



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	p	age 1 of 1
M/s Hindustan College of Science & Technology	Report No. AAL	ENV-20180612008
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

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/Sec	ction	ALY T: DG Se	etion		
Stack Ide	entification	: Stack A	ttached to D G		
Source o	of Emission	: DGSe	1		
Capacity	8	: 1010 K	VAT		
Type of	Stack	: Metal	1001		
Diameter	r of Stack	: 12"	191		
Height o	f Stack from Ground Level	: 23m	12		
Height fr	rom Roof Level	: -	12	1	
Height at	t Which Sampling Port	: 10m	16		p.P.*
Product	Manufacturing	: College			
Type of I	Fuel Used	: HSD	121		
Normal (Operating Schedule	: As per r	requirement		
Duration	of Monitoring	: 30 min.	1		
Emission	a Control (if any)	: Nil	· Y/		
Observa	tions d3	NOC OL	/		
Ambient	Temperature(°C)	105:38			
Stack Te	mperature (°C)	: 178			
Velocity	(m/s)	: 9.09			
Quantity	of emission (Nm ³ /hr.)	: 1361.8			
S. No.	Test Parameter	Unit	Results	Limits	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	44.28	75	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	mg/Nm ³	20.10	-	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	241.62	710	IS 11255(P-7)-2005
4	Carbon Monoxide (as CO) At 15%O ₂	mg/Nm ³	13.11	150	By GC
5	Non Methane Hydrocarbon (as C) At 15% ($D_2 mg/Nm^3$	11.58	100	By GC
	** "	End of Report**			North al



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date of issue of report unless specified.



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	(TEST CERTIFICATE)		Dage 1 of 1
			Fage 1 01 1
		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), was received	Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL
			. Pit
	<u>TEST RESULTS</u>		

S. No.	Test parameters	NAL YUnit	Results	Testing Method
1	pH Value	NALINCA	7.21	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	174.0	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	7.6	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	127.0	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	462.0	IS 3025(P-58)-2006
		End of Report	12	
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155000 10.	Agra Delhi Highway, NH-2	Date of Receiving:	12/06/2018
	 Farah, Distt. Mathura -281 122(UP) One Sample described as Waste Water (Outlet), was received 	Date of Starting:	12/06/2018
		Date of Completion:	16/06/2018
		Date of Reporting:	16/06/2018
Sample Description:		Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirement as Guidel	s per CPCB	Testing Method
	5	MI		Into Inland	On land for	
1	pH Value	~	7.88	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	28.0	100 Max.	200 Max.	IS 3025(P-17)-1984
3	Oil & Grease	mg/l	2.0	10 Max.	10 Max.	IS 3025(P-39)-1991
4	Biochemical Oxygen Demand (BOD - 3 days at 27° C)	mg/l	21.0	30 Max. D	100 Max.	IS 3025(P-44)-1993
5	Chemical Oxygen Demand (COD)	mg/l	112.0	250 Max.		IS 3025(P-58)-2006
		End o	f Report	12		
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date of issue of report unless specified.



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	(TEST CERTIFICATE)		Page 1 of 1
Issued To:	M/s Hinduston 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

Test parameters	Unit	Results	Requirements	ents As per 00-2012	Testing Method	Conformity
	155		Limit	Limit		40
Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
Odour	2/.	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983	Yes
Taste	E/ -	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-1984	Yes
Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
pH Value	-	6.95	6.5 - 8.5	6.5 - 8.5	IS 3025(P-11)-1983	Yes
Total Hardness(as CaCO ₃)	mg/l	23.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
Iron (as Fe)	mg/l	<0.1	0.3 Max.	0.3 Max.	IS 3025(P-53)-2003	Yes
Chlorides (as Cl)	1 mg/l	38.0	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	- P
	~	JNUC	(when	(when Chlorinated)		
Total Dissolved Solids	mg/l	98.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
Fluoride (as F)	mg/l	<0.01	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
Total Coliform	Per 100ml	Absent	Shall not be	detectable in	IS 1622-1981	Yes
	Test parameters Colour Odour Taste Turbidity pH Value Total Hardness(as CaCO ₃) Iron (as Fe) Chlorides (as Cl) Residual free chlorine Total Dissolved Solids Fluoride (as F) Total Coliform	Test parametersUnitColourHazenOdour-Taste-TurbidityNTUpH Value-Total Hardness(as CaCO3)mg/lIron (as Fe)mg/lChlorides (as Cl)mg/lResidual free chlorinemg/lTotal Dissolved Solidsmg/lFluoride (as F)mg/lTotal ColiformPer 100ml	Test parametersUnitResultsColourHazen<5.0	Test parametersUnitResultsRequirementsColourHazen<5.0	Test parametersUnitResultsRequirements As per IS: 10500-2012ColourHazen<5.0	Test parametersUnitResultsRequirements As per IS: 10500-2012 DesirableTesting MethodColourHazen<5.0

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	ALVTICAL LAND	RIHA N ISO 900 272, Phae Ph. : 7	NT ÁN 01:2015, ISO se-IV, Sec-3 082301442 V	ALYTIC 14001:200 57, HSIIDC 2, 92500145 Vebsite : ww	AL LA 4, OHSAS 18 551 Email : a ww.aalkundli	BORATC 001:2007 CER nepat-131028 aalkundli@gm .com	RY PVT. TIFIED LABORA (Haryana) ail.com	LTD.	
				(TEST CI	ERTIFICATE	Ξ)	Page 1	of 2	
							Tuge T	012	
Issued	Tot	M/s Llind	lustan Collogo	of Colones P.	Technology	Report No.	AAL WQT-201	80612004	
Issueu	10.	Agra Dell	hi Highway, N	H-2	rechnology	Date of Rec	eiving:	12/06/2018	
		Farah, Di	stt. Mathura -2	81 122(UP)		Date of Sta	rting:	12/06/2018	
						Date of Cor	npletion:	16/06/2018	
						Date of Rep	oorting:	16/06/2018	
Sample	Description:	One Samp	ple described a	s Bore well W	ater, was	Sample Qua	antity:	1 Litre	
		received.				Sample Pac	Sample Packing Condition:		le
						Sample Col	lected By:	AAL	
				<u>TEST R</u>	RESULTS				
Ő.	Test paramete	ers	Unit	Results	PRequirem IS: 105 Desirable	ents As per 00-2012 Permissible	Testing Method	d Confo	rmity
1	Colour		Hazen	<5.0	Limit 5 Max.	Limit 15 Max.	IS 3025(P-4)-198	33 Y	les
2	Odour		151	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-198	33 Y	les
3	pH Value		121	7 48	65-85	65-85	IS 3025(P-11)-10	83 V	las
			V	,,,,,,	0.0 0.0		15 5025(1-11)-15		CS
4	Taste		-	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-198	34 Y	es
5	Turbidity		NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-19	84 PY	les
6	Total Dissolved	d Solids	d_mg/l	1862.0	500 Max.	2000 Max.	IS 3025(P-16)198	34 Y	es
7	Aluminium (as	Al)	mg/l	ND	0.03 Max.	0.2 Max.	IS 3025(P-55)-20	03 Y	es
8	Anionic Deterg	ent	mg/l	ND	0.2 Max.	1.0 Max.	Annex K of	Y	es
									10.2072 (
9	(as MABS) Boron (as B)		mg/I	ND	0.5 Max.	0.5 Max.	IS 13428-2005 IS 3025(P-57)-20	05 Y	es

17 Manganese (as Mn)

Iron (as Fe)

Chlorides (as Cl)

Copper (as Cu)

Fluoride (as F)

Residual free chlorine

Magnesium (as Mg)

18 Mineral Oil Vinay Dixit

11

12

13

14

15

16

(Microbiologist)

Authorized Signatory

250 Max.

0.05 Max.

1 Max.

0.2 Min.

(when

Chlorinated)

0.3 Max.

30 Max.

0.1 Max.

0.5 Max.

1000 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-32)-1988

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

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Yes

Yes

Yes

Yes

Yes

Yes

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

937.0

ND

0.13

Nil

0.18

54.0

ND

ND

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1		Report No. AAL WQT-20	180612004
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 received.	Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULTS

S.	Test parameters	Unit	Results	Y Requirem	ients As per 500-2012	Testing Method	Conformity
'		13	<u> </u>	Desirable	Permissible		
19	Nitrate (as NO ₃)	mg/4	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	Sulphate (as SO_4)	mg/l	289.0	200 Max.	400 Max.70	IS 3025(P-24)-1986	Yes
22	Total Alkalinity (as CaCO ₂)	mg/l	372.0	200 Max.	600 Max. 🚬	IS 3025(P-23)-1986	Yes
23	Total Hardness (as CaCO ₂)	mg/l	562.0	200 Max.	600 Max. 🔿	IS 3025(P-21)-2009	Yes
24	Zinc (as Zn)	mg/l	0.11	5 Max.	15 Max	IS 3025(P-49)-1994	Yes
25	Cadmium (as Cd)	mg/l	ND	0.003 Max.	0.003 Max.	IS 3025(P-41)-1992	Yes
26	Lead (as Pb)	mg/l	ND	0.01 Max.	0.01 Max.	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/I	ND	0.001 Max.	0.001 Max.	IS 3025(P-48)-1992	Yes
3	Nickel (as Ni)	mg/l	ND	0.02 Max.	0.02 Max.	IS 3025(P-54)-2003	Yes
29	Total Arsenic (as As)	mg/l	ND	0.01 Max.	0.05 Max.	IS 3025(P-37)-1988	Yes
30	Total Chromium (as Cr)	mg/l	ND	0.05 Max.	0.05 Max.	IS 3025(P-52)-2003	Yes
31	E.Coli	Per 100ml	Absent	Shall not be	detectable any	IS 1622-1981	Yes
32	Total Coliform	Per 100ml	Absent	Shall not be 100 m	detectable any l sample	IS 1622-1981	Yes
	bill bolot Detected						

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

End of Report





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		Report No. AAL ENV-2013	80612008
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Date of Receiving: Date of Starting:	12/06/2018 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 RESULT	S	
S. No.	Test Parameters	ANDALYTI	CResults	Test Method
1	рН	N.	7.44	IS 2720(P-26)-1987, Reaff-2007
2	Conductivity	μS/cm	574.4	IS 2720(P-21)-1977, Reaff-2006
3	Sodium (as Na)	mg/kg	238.6	AAL/SOP/ENV/010-D
4	Potassium (as K)	mg/kg	165.4	AAL/SOP/ENV/010-D
5	Total Kjeldahl Nitrogen 🏹	% by mass	0.095	AAL/SOP/ENV/010-C
6	Phosphorus (as P)	mg/kg	83.25	AAL/SOP/ENV/010-G
7	Organic Matter	% by mass	0.54	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/Textur	e (% by mass)	1.5	e par at
(a)	Sand	% by mass	71,25	IS 2720(P-4)-1985, Reaff. 2001
(b)	Silt	% by mass	15.50	IS 2720(P-4)-1985, Reaff. 2001
(c)	Clay	% by mass	13.25	IS 2720(P-4)-1985, Reaff. 2001
		End of Report	1. C. S.	



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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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Issued 7	To:	M/s Hindustan	College of 9	cience & Tec	hnology	Report No.	AAL EN	V-2019122501	9
Issued	10. / H	Agra Delhi High Farah, Distt. Ma	thura -281 1	22(UP)	unology	Date of Rece	iving:	25/12/2019	
Sample	Description:	Ambient Air O	uality Moni	toring		Date of Com	nletion:	30/12/2019	
Date of	Monitoring: 2	4/12/2019 to 2	5/12/2019	ion in 6		Date of Rend	orting.	30/12/2019	
Purpose	e of Monitoring:	Self Assessment				Sampling Do	ne By:	AAL.	
- urpoor	, and the second s					Sumpring De	ne by.	TITL	
			TES	T RESULT	2				
Sampli	ng Details:								
Type of	Monitoring				Ambient Air	r Quality Mor	nitoring		
Monitor	ring Procedure		-	ALV+	As per IS-51	82, P-14	Б		
Location	n of Sampling Point		10	ALYI	Near Main	Gate			
Samplin	ng Started on		K P		12:05 PM (2	4/12/2019)			
Samplin	ng Completed on	- /-	4%	:	12:05 PM (2	5/12/2019)			
Actual 7	Time of Sampling (Hr	s)	10	. :	24 Hrs.	Yol'			
Average	e flow Rate for particu	late matter (m ³	min.)	:	1.15	1001			
Total V	olume of air sampled	for particulate n	natter (m ³)		1656	121			
S. No.	Test Parameters		Jnit Res	sults Limits & A	NAAQS Mon Analysis Guide Volume-I	lines	Te	st Methods	
1	Particulate Matter, 1	PM 2.5 μ	g/m ³ 53	3.5	60	0	SOP-(AA)	L/SOP/ENV/00	2)/
2	Particulate Matter, I	PM 10 🔶 µ	g/m ³ 8'	7.3	100	101	IS-518	82(P-23)-2006	
3	Sulphur Dioxide (as	SO ₂) Ou	g/m ³ 9	.5	80	171	IS-51	82 (P-2)-2001	
4	Oxide of Nitrogen (as NO ₂)	g/m ³ 30	5.2	80	81	IS-51	82(P-6)-2006	
5	Carbon Monoxide (as CO) m	g /m ³ <	0.2	02 (8hr) 04 (1hr)	5/	IS-518 R	82(P-10)-1999 eaff, 2003	
6	Ozone (as O ₃)	μι	g/m ³ 0 2	0.0VOS	100 (8hr) 180 (1hr)		IS-51	82(P-9)-1974	
7	Ammonia (as NH ₃)	μι	$g/m^3 < 2$	0.0	400		Indo-Phe	nol Blue Metho	bd

- Lead (as Pb)
 Nickel (as Ni)
- Arsenic (as As)
 Benzene (as C₆H₆)
- 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/m³

ng/m³

 $\mu g/m^3$

ng/m³

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Page 1 of 1

Date of Monitoring: 24	4/12/2019 to 25/12/2019	Date of Reporting:	30/12/2019	
Purpose of Monitoring: Se	elf Assessment	Sampling Done By:	AAL	

Sa	mplin	g Details:				
Ty	pe of l	Monitoring			: Ambient Air Quality N	Ionitoring
Mo	onitori	ng Procedure		10	V + As per IS-5182, P-14	Nº14
Lo	cation	of Sampling Point	1	ANA	Near Girl Hostel Gate	
Sa	mpling	g Started on	13	2	: 12:15 PM (24/12/2019)	
Sa	mpling	g Completed on	2	~	: 12:15 PM (25/12/2019)	
Ac	tual T	ime of Sampling (Hrs)	S/	1	: 24 Hrs.	
Av	erage	flow Rate for particulate matter	(m ³ /min.)	-	: 1.1	
To	tal Vo	lume of air sampled for particula	te matter	(m ³)	: 1584	
s.	No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5 Particulate Matter, PM 10	μg/m ³ μg/m ³	50.3 80.5	60 9	SOP-(AAL/SOP/ENV/002)/ CPCB Guideline IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO ₂)	$\mu g/m^3$	9.5	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO2)	µg/m ³	33.8	80 0	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg /m ³	<0.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
1	6	Ozone (as O ₃)	μg/m ³	<20.0	S (100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia (as NH ₃)	$\mu g/m^3$	<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 ³	<1.0	20	IS-5182(P-22)-2004
1	10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
1	11	Benzene (as C ₆ H ₆)	$\mu g/m^3$	< 0.1	05	NISOH 6015-2005
1	12	Banzo a-pyrene (Bap)	ng/m ³	<1.0	01	CPCB/GC Method
				End of	f Report	



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111 0010100

Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL EN	10-20191225021
	Agra Delhi Highway, NH-2	Date of Receiving:	25/12/2019
	Farah, Distt. Mathura -281,122(UP)	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 Main Gate	Sampling Method:	By Noise Meter
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq.		s)
1	Noise Level	1.5	Alter	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	34.8			P.P.
	L10	dB(A)	62.6	10		
	L50	dB(A)	- 54.8	10		
	L90	dB(A)	47.2	R		
	Leq	dB(A)	57.2	- P	-	
	Lmax	dB(A)	69.8		-	Par Not
		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
1		XP	**End of Repor	110		



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Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL EN	12-20191225022
	Agra Delhi Highway, NH-2	Date of Receiving:	25/12/2019
	Farah, Distt. Mathura -281 122(UP)	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	Req (as per CP Limits i	uirement 'CB Guidelines) n dB(A) Leq.	AL AL
1	Noise Level	1.5	P.M.	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	34.8	60		P.P.
	L10	dB(A)	61.2	10		· Mar
	L50	dB(A)	49.4			
	L90	dB(A)	44.8	R		
	Leq	dB(A)	57.4	- P.	-	
	Lmax	dB(A)	66.3		- P	1
		4		A: Industrial Area	75	70
	Leq-Day	dB(A)	58.1	B: Commercial Area	65	55
		12		C: Residential Area	55	45
	Leq-Night	dB(A)	47.9	D: Silence Zone	50	40
		×6	**End of Report	11017		



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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/Section		: D G Section				
Stack Identification	NAL	: Stack Attache	d to D G			
Source of Emission	AN	: DG Set				
Capacity		: 500 KVA	1			
Type of Stack		: Metal	Pal			
Diameter of Stack		: 8"	100			
Height of Stack from Ground Level		: 23m	1 mil			
Height from Roof Level			121			
Height at Which Sampling Port		: 10m	: 10m			
Product Manufacturing		: College	: College			
Type of Fuel Used	: HSD	: HSD				
Normal Operating Schedule		: As per require	ement	11 A.		
Duration of Monitoring		: 30 min.	×1 .			
Emission Control (if any)		: Nil	~			
Observations	he		2/11			
Ambient Temperature(°C)	DINED	: .18				
Stack Temperature (°C)	ZINO	: 232				
Velocity (m/s)		: 11.2				
Quantity of emission (Nm ³ /hr.)		: 842.4				
S. No. Test Parameter	Unit	Results	Limits	Test Methods		
1 Particulate Matter (as PM)	g/kw-hr	0.16	0.3	IS 11255(P-1)-1985		
2 Sulphur Dioxide (as SO ₂)	g/kw-hr	0.94	-	IS 11255(P-2)-1985		
3 Oxide of Nitrogen (as NO _x)	g/kw-hr	3.42	9.2	IS 11255(P-7)-2005		
4 Carbon Monoxide (as CO)	g/kw-hr	1.17	3.5	By GC		
5 Hydrocarbon (as HC)	g/kw-hr	0.71	1.3	By GC		
	End of Re	port				



Page 1 of 1

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Issued To:	M/a Hinduston College of Science & Technology	Report No. AAL EN	V-20191225024
issued 10.	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

1	Plant/Sect	ion	IV:7D	G Section		
2	Stack Iden	tification		ack Attached to D G		
	Source of	Emission	: D	G Set		
	Capacity	A C	: 10	010 KVA		
	Type of St	tack	: M	letal		
	Diameter of	of Stack	7 1	2" \0		
	Height of	Stack from Ground Level	: 23	3m 🛛 🎵		
	Height fro	m Roof Level	: -	P		
	Height at '	Which Sampling Port	: 10)m		
	Product M	lanufacturing	: C	ollege		
	Type of Fu	uel Used	: H			
	Normal O	perating Schedule	: As per requirement			· · · · · · · · · · · · · · · · · · ·
	Duration of	of Monitoring	: 30 min.			
	Emission	Control (if any)	: N	ii A		
1	Observati	ions da		117		
2	Ambient 7	Temperature(°C)	0 <u>9</u> 1			
	Stack Tem	perature (°C)	: 19	06		
	Velocity (m/s)	: 11	.2		
	Quantity o	f emission (Nm ³ /hr.)	: 15	566.5		
	S. No.	Test Parameter	Unit	Results	Limits	Test Methods
	1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	51.4	75	IS 11255(P-1)-1985
	2	Sulphur Dioxide (as SO ₂)	mg/Nm ³	13.8	-	IS 11255(P-2)-1985
	3	Oxide of Nitrogen (as NO_x) At 15% O_2	ppmv	316.5	710	IS 11255(P-7)-2005
	4	Carbon Monoxide (as CO) At 15%O ₂	mg/Nm ³	25.6	150	By GC
	5	Non Methane Hydrocarbon (as C) At 15% O_2	mg/Nm ³	14.8	100	By GC
		End of	of Report			



Page 1 of 1

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	Website . www.aaikullu	II.COITI	
	(TEST CERTIFICAT	E)	Page 1 of 1
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP)	Report No. AAL WQT-2 Date of Receiving: Date of Starting:	0191225009 25/12/2019 25/12/2019
Sample Description:	One Sample described as STP Inlet Water, was received.	Date of Completion: Date of Reporting: Sample Quantity: Sample Packing Condition: Sample Collected By:	30/12/2019 30/12/2019 1 Litre Plastic Bottle
AL ARL MAL P	TEST RESULTS	PAL NAL AL A	AALAAL
S. No. Test paran 1 pH Value	ANALYTIC	Results To 10.87 IS 3	esting Method 8025(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 CERTIF	ICATE)		Page 1 of 1
Issued '	To:	M/s Hindustan Colleg	e of Science	a & Technolo	Report No	AAL WQT-	20191225010
Issueu	10.	Agra Delhi Highway, N	VH-2		Date of R	eceiving:	25/12/2019
		Farah, Distt. Mathura -2	281 122(UP	r)	Date of St	arting:	25/12/2019
					Date of Co	ompletion:	30/12/2019
					Date of Re	eporting:	30/12/2019
Sample	Description:	One Sample described as STP Outlet Water, was			as Sample Q	Sample Quantity:	
		received.			Sample Pa	acking Condition	: Plastic Bottle
					Sample C	ollected By:	AAL
S No	Test narame	store	<u>TEST</u> Unit	RESULT	Requirement	ner CPCB	Testing Mathod
5. 110.	rest parame		AN	ALYT	Guideli Cinto Inland	ne On land for	resting method
1	pH Value	12		7.72	5.5 - 9.0	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	A	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-1991
4	Biochemical	Oxygen Demand	mg/l	21.0	30 Max.	100 Max.	IS 3025(P-44)-1993
5	Chemical Ox	ygen Demand (COD)	mg/l	108.0	250 Max.		IS 3025(P-58)-2006

End of Report

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

EPAL INV

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	(TEST CERTIFICATE)	Page 1 of 1	
		Report No. AAL WQT-20	191225011	
Issued Io:	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	
		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

S. No.	Test parameters	Unit	Results	Requireme IS: 1050 Desirable	ents As per 00-2012 Permissible	Testing Method	Co	nformity
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983		Yes
2	Odour	X.	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983	al	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 ₃)	mg/l	28.0	200 Max	600 Max.	IS 3025(P-21)-2009		Yes
7	Iron (as Fe)	mg/l	<0.1	0.3 Max.	0.3 Max.	IS 3025(P-53)-2003		Yes
8	Chlorides (as Cl)	mg/l	33.0	250 Max.	1000 Max.	IS 3025(P-32)-1988		Yes
9	Residual free chlorine	mg/l b	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when	IS 3025(P-26)-1986		-
10	Total Dissolved Solids	mg/l	136.0	500 Max.	2000 Max.	IS 3025(P-16)-1984		Yes
11	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984		Yes
12	Total Coliform	Per 100ml	Absent	Shall not be any 100ml	detectable in 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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				(TEST C	ERTIFICATE)	Page 1 of 1	1-1-5	
						Report No.	AAL WOT-20190622	012	
Issu	ed To:	M/s Hindustan C	ollege of Scien	ce & Technolo	gy				•
		Agra Delhi Highw Farah Distt Math	ay, NH-2	IP)		Date of Receiving	g: 25	/12/2019	
		Taran, Dist. Math	ula -201 122(C	,,,,		Date of Starting:	ion: 30	/12/2019	
Sam	ple Description:	One sample descri	bed as Bore w	ell Water, was	received.	Date of Reportin	g: 30	/12/2019	
				1		Sample Quantity	. 11	itre	
						Sample Packing	Condition: Pla	stic Bott	le
				TEOT DE		Sample Collected	d By: A/	L	
S. N	No. Test parame	eters	Unit	Results	Requireme	nts As per	Testing Method	Co	aformity
					IS: 1050	0-2012			
					Limit	Limit			
1	Colour		Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983		Yes
2	Odour		-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-1983		Yes
3	pH Value		•	7.24	6.5-8.5	6.5-8.5	IS 3025(P-11)-1983		Yes
4	Turbidity		NTU	2.5	1 Max.	5 Max.	IS 3025(P-10)-1984		Yes
5	Total Dissolv	ved Solids	mg/l	10731.0	500 Max.	2000 Max.	IS 3025(P-16)1984	. P	No
6	Aluminium ((as Al)	mg/l	BDL	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003		Yes
7	Anionic Dete	ergent (as MBAS)	mg/l	BDL	0.2 Max.	1.0 Max.	APHA 5540 C		Yes
8	Boron (as B)	· · · · /	mg/l	BDL	0.5 Max.	0.5 Max.	IS 3025(P-57)-2005		Yes
9	Calcium (as	Ca)	mg/l	1176.0	75 Max.	200 Max.70	IS 3025(P-40)-1991		No
10	Chlorides (as	s Cl)	mg/l	6634.0	250 Max.	1000 Max.	IS 3025(P-32)-1988		No
11	Copper (as C	Cu)	mg/l	BDL	0.05 Max.	1.5 Max	IS 3025(P-42)-1992		Yes
12	2 Fluoride (as)	F)	mg/l	1.38	1 Max.	1.5 Max. 🔿	IS 3025(P-60)-1984		Yes
13	3 Residual free	e chlorine	mg/l	Nil	0.2 Min.	1.0 Min.	IS 3025(P-26)-1986		<u> </u>
14	Iron (as Fe)		mg/l	0.44	0.3 Max.	0.3 Max.	IS 3025(P-53)-2003		No
15	5 Magnesium ((as Mg)	mg/l	702.0	30 Max.	100 Max.	IS 3025(P-46)-1994		No
16	5 Manganese (as Mn)	mg/l	BDL	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006		Yes
17	7 Nitrate (as N	O ₃)	mg/l	18.6	45 Max.	45 Max.	IS 3025(P-34)-1988		Yes
18	B Phenolic Cor	npound (as C ₆ H ₅ OH)	mg/l	BDL	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992		Yes
19	Selenium(as	Se)	mg/l	BDL	0.01 Max.	0.01 Max.	IS 3025(P-56)-2003		Yes
20	Sulphate (as	SO ₄)	mg/l	837.0	200 Max.	400 Max.	IS 3025(P-24)-1986		No
21	Total Alkalin	nity (as CaCO ₃)	mg/l	554.0	200 Max.	600 Max.	IS 3025(P-23)-1986		Yes
22	2 Total Hardne	ess (as CaCO ₃)	mg/l	5840.0	200 Max.	600 Max.	IS 3025(P-21)-2009		No
23	Zinc (as Zn)		mg/l	0.56	5 Max.	15 Max.	IS 3025(P-49)-1994		Yes
24	Cadmium (as	Cd)	mg/l	BDL (DL=0.002)	0.003 Max.	0.003 Max.	IS 3025(P-41)-1992		Yes
25	Cyanide (as (CN)	mg/l	BDL	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	c (as As)	mg/l	BDL	0.01 Max.	0.05 Max.	IS 3025(P-37)-1988		Yes
29	Total Chromi	um (as Cr)	mg/l	BDL	0.05 Max.	0.05 Max.	IS 3025(P-52)-2003		Yes
30	E.Coli		Per 100ml	Absent	Shall not be detect	table in any 100	IS 1622-1981		Yes
31	Total Colifor	m	Per 100ml	Absent	Shall not be detect ml of sa	table in any 100	IS 1622-1981		Yes

BDL = Below Detection Limit

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

Inav **End of Report**

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	(TEST CERTIFIC	CATE) P	age 1 of 1
		Report No. AAL MIS-20	191225004
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Distt. Mathura -281 122(UP) One sample described as STP Sludge, was received.	Date of Receiving:	25/12/2019
		Date of Starting:	25/12/2019
		Date of Completion:	30/12/2019
		Date of Reporting:	30/12/2019
Sample Description:		Sample Quantity:	2 Kgs.
		Sample Packing Condition:	Polythene Packing
		Sample Collected By:	AAL





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TEST CERTIFICATE

Page 1 of 1

		Report No. AAL ENV-2019	91225025
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Forab Distr. Mathura 281 122(UP)	Date of Receiving:	25/12/2019
	raian, Disti. Mainura -201 122(UP)	Date of Starting:	25/12/2019
		Date of Completion:	30/12/2019
Sample Description:	One sample described as Soil, was received.	Date of Reporting:	30/12/2019
		Sample Qty.	2 Kgs.
		Sample Packing Condition:	Polythene Bag
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test Parameters	Unit LYT	Results	Test Method
1	рН	X M	7.68	IS 2720(P-26)-1987, Reaff-2007
2	Conductivity	μS/cm	695	JS 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 AN LAN
(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

YDY HI **\$TAN COL** EGE OF SC ICE & TECHNOLOGY FARAH, MATHIN

Director Hindustan College of Science & Technology FARAH (MATHURA)



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TEST CERTIFICATE

Issued To:	M/s Hindustan College of Science &	Report No. AAL H	ENV-20200303039
A.A. AAL	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

١	Samplin	g Details:	P.	ALM	Pr . DV	A A A A A A A A A A A A A A A A A A A
	Type of I	Monitoring	N/N	JALY	Ambient Air Quality M	onitoring
	Monitori	ng Procedure	13.12		: As per IS-5182, P-14	A A A A A A A A A A A A A A A A A A A
	Location	of Sampling Point	4%		: Near Main Gate	
	Sampling	g Started on	7/5	-	: 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 ³ /minute)		: 1.12	
	Total Vo	lume of air sampled for particula	ate matter (m	3)	: 1612.8	and the production of the
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5	µg/m ³	47.6	60	CPCB Guideline/Gravimetric/
	2	Particulate Matter, PM 10	µg/m ³	75.8	100	(AAL/SOP/ENV/002) IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO ₂)	µg/m ³	10.2	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO ₂)	µg/m ³	28.6	80	IS-5182(P-6)-2006
)	5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
	6	Ozone (as O_3)	μg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia (as NH ₃)	$\mu g/m^3$	<20.0	400	CPCB Guideline
	8	Lead (as Pb)	μg/m ³	<0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
	9	Nickel (as Ni)	ng/m ³	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C_6H_6)	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method
			E	and of Repo	rt	



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		Report No. AAL E	ENV-20200303040	
Issued To:	M/s Hindustan College of Science &	AN AL	A. A.	
	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

Sampl	ing Details:				C DIA DA
Type o	f Monitoring	P.M.	ALV	: Ambient Air Quality M	onitoring
Monito	oring Procedure	N/N	ALI	: As per 1S-5182, P-14	
Locatio	on of Sampling Point	12 2		: Near STP Plant	
Sampli	ng Started on	6.		: 10:35 AM (02/03/2020)	
Sampli	ng Completed on			: 10:35 AM (03/03/2020)	
Actual	Time of Sampling (Hrs)		2. 200	: 24 Hrs.	
Averag	e flow Rate for particulate matter	(m ³ /minute)	No.	: 1.11	
Total V	olume 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	$\mu g/m^3$	43.8	60	CPCB Guideline/Gravimetric/
2	Particulate Matter, PM 10	µg/m³	69.6	100	(AAL/SOP/ENV/002) IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	9.4	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	μg/m ³	27.5	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff, 2003
6	Ozone (as O ₃)	μg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	µg/m ³	<20.0	400	CPCB Guideline
8	Lead (as Pb)	μg/m ³	<0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C_6H_6)	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method
]	End of Rep	ort	



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A AL	M/ We have College (Science)	Report No. AAL I	ENV-20200303041
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:	03/03/2020 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 Main Gate	Sampling Method:	By Noise Meter
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	YTICA (as per CPC Limits in	irement CB Guidelines) dB(A) Leq.	
1.	Noise Level	AL 12		Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	36.9	7	p.P	- 24
	L10	dB(A)	63.6	- 101		An ARL
	L50	dB(A)	54.7	· 17	-phy	Nº -
	L90	dB(A)	41.9	- · · >	all the	i Pri
	Leq	dB(A)	60.5		i P pl	and and a second
1	Lmax	dB(A)	68.8	A · · ! ! !	and the second	- N
		141		A: Industrial Area	75	70
	Leq-Day	dB(A)	62.1	B: Commercial Area	65	55
		121		C: Residential Area	55	45
	Leq-Night	dB(A)	46.5	D: Silence Zone	50	40
1. pp		AAL S	**End of	Report**		

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		Report No. AAL	ENV-20200303042
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:	03/03/2020 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	YTICA, (as per CPC Limits in	irement CB Guidelines) dB(A) Leg.	
1	Noise Level	at is	1	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	35.5	P. P.	PAL AL	- pr
	L10	dB(A)	62.7	-10	~ · ·	AR AR
	L50	dB(A)	53.2		Phi ppt	D2
	L90	dB(A)	40.8	- 5	and the	and the second
	Leq	dB(A)	59.5	V (V ·) 4	P. P.	at at
	Lmax	dB(A)	68.3	A	AN NEW IN	P- P
		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
1 april			**End of	Report**		

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Part Part	AV ANT AV T	Report No. AAL E	NV-20200303043
Issued To:	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Earch Dist. Mathura, 281, 122(UD)	Date of Receiving:	03/03/2020
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

Plant/Sec	ction	: DG Se	ction		apt at the		
Stack Ide	entification	Stack A	: Stack Attached to DG				
Source o	f Emission	: DG Se	: DG Set				
Capacity		: 250 K	VA – D G No.1				
Type of	Stack	: Metal	101				
Diameter	r of Stack	: 12"	NO				
Height o	f Stack from Ground Level	: 21m	D	P			
Height fi	rom Roof Level	· · ·		ant a			
Height at	t Which Sampling Port	: 12m	1		april at		
Product	Manufacturing	: Colleg	e 🖉				
Type of	Fuel Used	: HSD	: HSD 💫				
Normal Operating Schedule		: As per	: As per requirement				
Duration	of Monitoring	: 30 min	: 30 min.				
Emission	n Control (if any)	: Nil	1.5/8		A A A		
Observa	itions V	and the second s					
Ambient	Temperature(°C)	SANOC: 31		P.AL			
Stack Te	mperature (°C)	: 184					
Velocity	(m/s)	: 11.3					
Flow Rat	te(Nm ³ /hr)	: 1884.7	AALAL				
S. No.	Test Parameter	Unit	Results	Limits	Test Methods		
2-1	Particulate Matter (PM)	g/kw-hr	0.12	0.3	IS 11255(P-1)-1985		
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.21	AN SAL	IS 11255(P-2)-1985		
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.18	9.2	IS 11255(P-7)-2005		
4	Carbon Monoxide (CO)	g/kw-hr	1.23	3.5	By GC		
5	Hydrocarbon (as HC)	g/kw-hr	0.75	1.3	By GC		
		End of Report					

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A CARLER AND A		Report No. AAL E	ENV-20200303044
Issued To:	M/s Hindustan College of Science &	AAL AL	
	Technology	Date of Receiving:	03/03/2020
	Agra Delhi Highway, NH-2	Alt a Alt	
	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

Plant/Sec	ction	: DG See	ction				
Stack Ide	entification	Stack A	Attached to DG		par plat a		
Source o	f Emission	: DG Set	: DG Set				
Capacity	and the set of the	: 250 KV	A-DGN0.2	Ja Val			
Type of S	Stack	: Metal	1801				
Diameter	r of Stack	: 12"	101				
Height o	f Stack from Ground Level	: 21m		A M			
Height fr	rom Roof Level		15	1 AL			
Height at	t Which Sampling Port	: 12m	4				
Product	Manufacturing	: College		LAY is			
Type of I	Fuel Used	: HSD	1	P. P.	DAL IL		
Normal	Operating Schedule	: As per	requirement				
Duration	of Monitoring	: 30 min	1/2/				
Emission	n Control (if any)	: Nil	1.5/1				
Observa	ations		· Y/		At all all all		
Ambient	Temperature(°C)	HOC: 32	1 pt				
Stack Te	emperature (°C)	: 178					
Velocity	(m/s)	: 10.8					
Flow Ra	te(Nm ³ /hr)	: 1828.2					
S. No.	Test Parameter	Unit	Results	Limits	Test Methods		
1	Particulate Matter (PM)	g/kw-hr	0.13	0.3	IS 11255(P-1)-1985		
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.24	AL al	IS 11255(P-2)-1985		
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.56	9.2	IS 11255(P-7)-2005		
4	Carbon Monoxide (CO)	g/kw-hr	1.32	3.5	By GC		
5	Hydrocarbon (as HC)	g/kw-hr	0.85	1.3	By GC		
6.P	A A A A A A A A A A A A A A A A A A A	**End of Report**					

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		Report No. AAL WQT-20	200303019
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:	03/03/2020 03/03/2020
APR all		Date of Completion:	07/03/2020
Sample Description:	One Sample described as STP Inlet Water, was received.	Date of Reporting:	07/03/2020
		Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
	At AAL AL AMA AAL	Sample Collected By:	AAL
al i da	Pro al Prophy Pro	all	N

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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AL AL	ph pat at TE	ST CERTIFICATE)	AALAAL	pr	Page 1 of 1
L. M. APL			Report No. AA	L WQT-202	00303020
Issued To:	M/s Hindustan College of Scien Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(U	nce & Technology IP)	Date of Receiving Date of Starting: Date of Completion	: on:	03/03/2020 03/03/2020 07/03/2020
Sample Description:	One Sample described as STP O received.	utlet Water, was	Date of Reporting Sample Quantity: Sample Packing (Sample Collected	g: Condition: By:	07/03/2020 1 Litre Plastic Bottle AAL
🥌 No. Test para	<u>]</u> meters U	<u>TEST RESULT</u>	Requirement as per	СРСВ	Testing Method
White was want	and and and ATA	NALYTICA	Guideline nto Inland On rface Water Ir	land for rigation	

1	pH Value	(7.85	5.5 - 9.0	5.5 - 9.0	15 3023(P-11)-1903
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. 🔍	Alt - AL	IS 3025(P-58)-2006

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- - date of issue of report unless specified.

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TEST	CERTIFICATE

	A PARTING A PARTICIPANT		
		Report No. AAL WQT-20	200303021
Issued To:	M/s Hindustan College of Science &		
APT 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
		Date of Completion:	07/03/2020
Sample Description:	One Sample described as Drinking Water (R O	Date of Reporting:	07/03/2020
	Water) was received.	Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
		15		Acceptable Limit	Permissible Limit		
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
2	Odour	\$1-	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	4.	7.13	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
6	Total Hardness (as CaCo ₃)	mg/l	31.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
7	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
8	Chlorides (as Cl)	mg/l	51.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
9	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	NAL IN
10	Total Dissolved Solids	mg/l	156.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
11	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
12	Total Coliform	Per 100ml	Absent	Shall not be a 100ml	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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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana) Ph.: 7082301442, 9250014551 Email : aalkundli@gmail.com

	SONE	UL.	Website : www.aalkundli.com						
2	A	had not	Carl (TEST CER	TIFICATE)	AAL AAL	Р	age 1 of 1	ARY
						Report No.	AAL WQT-2	20200303022	
	Issued 7	fo: M/s Hindus	stan College of Scien	ce & Technolog	У	When ph			
	·Palar	Agra Delhi	Highway, NH-2			Date of Receivin	g:	03/03/2020	
		Farah, Dist.	Mathura -281 122(U	P)		Date of Starting	- DA	03/03/2020	
	No.					Date of Complet	ion:	07/03/2020	
	Sample	Description: One sample	described as Bore we	ell Water, was re	eceived.	Date of Reportin	ng:	07/03/2020	
						Sample Quantity	y:	2 Litre	
5	P					Sample Packing	Condition:	Plastic Bottle	e
2	- P	r No.	- phi phi	TROT DEC	UL TO	Sample Collecte	a By:	AAL	p.s.
	C No	Test norematers	Unit	Results	Requirem	ents As per	Testing	Method	Conform
	5. 190.	Test parameters	Can	Results	IS: 105	00-2012	, toning .		N
					Acceptable	Permissible			
	1.1	0.1	Haran	-50	Limit 5 Max	Limit 15 Max	IS 3025(P	-4)-1983	Yes
	1.0	Colour	Hazen	-5.0	J Max.	15 Max.	10 2025(1	5) 2019	Ves
ć	2	Odour	pu- 0	Agreeable	Agreeable	Agreeable	15 3025(P	-5)-2018	res
	3	pH Value	AL IS	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
	Ū			(DL=0.03)	0.2 Max	10 Max	АРНА	5540 C	Ves
	7	Anionic Detergent (as MBA	AS) mg/l	(DL=0.2)	0.2 Max.	1.0 Iviax.	AITIA	0040 0	105
	8	Boron (as B)	mg/l	BDL	0.5 Max.	2.4 Max.	IS 3025(P-	-57)-2005	Yes
	9	Calcium (as Ca)	mg/l	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
	10	Compose (os Cu)	mg/l	BDL	0.05 Max	1.5 Max.	IS 3025(P	-42)-1992	Yes
	11	copper (as cu)	ing/1	(DL=0.05)	114	15340	10 2025/0	60) 1094	Ves
			···· ··· ··· ··· ··· ··· ··· ··· ··· ·	1 15	I May		13 10/3(P	-001-1964	ICS

12	Fluoride (as F)	mg/l	1.15	1 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
13	Residual free chlorine	mg/l	Nil	0.2 Min.	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	apple to
14	Iron (as Fe)	mg/l	0.38	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
15	Magnesium (as Mg)	mg/l	242.0	30 Max.	100 Max.	IS 3025(P-46)-1994	No
16	Manganese (as Mn)	mg/l	0.18	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
17	Nitrate (as NO ₃)	mg/l	23.6	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
18	Phenolic Compound (as C6H5OH)	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 ₄)	mg/l	(DL=0.01) 638.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No
21	Total Alkalinity (as CaCO ₃)	mg/l	636.0	200 Max.	600 Max.	IS 3025(P-23)-1986	No
22	Total Hardness (as CaCO ₃)	mg/l	1738.0	200 Max.	600 Max.	IS 3025(P-21)-2009	No
23	Zinc (as Zn)	mg/l	0.35	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
24	Cadmium (as Cd)	mg/l	BDL	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes
25	Cyanide (as CN)	mg/l	BDL	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes
26	Lead(as Pb)	mg/l	BDL	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes
27	Mercury (as Hg)	mg/l	(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	Absent	Shall not be det	ectable in any 100	IS 1622-1981	Yes
31	Total Coliform	Per 100ml	Absent	Shall not be det	ectable in any 100	IS 1622-1981	SHARWES

BDL = Below De meet the requirement of IS: 10500:2012.

Remarks: The above tested sample doe **End of Report**

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ml of sample

Gen. M

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AAL

		Report No. AAL ENV	7-20200303045
Issued To:	M/s Hindustan College of Science &	ARU AL	
AMAAL	Technology	Date of Receiving:	03/03/2020
	Agra Delni Hignway, NH-2 Farah, Dist, Mathura -281 122(UP)	Date of Starting:	03/03/2020
	1 anal, 2001 Maanana 2011 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	рН	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)	11/1/1	A A A A
(a)	Sand	% by mass	74.0	IS 2720(P-4)-1985, Reaff. 2001
(b)	Silt	% by mass	11.0	IS 2720(P-4)-1985, Reaff. 2001
(c)	Clay	% by mass	15.0	IS 2720(P-4)-1985, Reaff. 2001

End of Report

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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Issued To:		M/s Hindustan College of Science &	Report No. AAL ENV-20210327008		
	155404 101	Technology	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

٦	Sampling	<u>d Details</u> :		Contraction of the local division of the loc		
	Type of M	Aonitoring	N	ALY	: Ambient Air Quality M	onitoring
	Monitorin	ng Procedure	X A"		: As per IS-5182, P-14	
	Location	of Sampling Point	41		: Near Main Gate	
	Sampling	Started on		_	: 11:00 AM (26/03/2021)	
	Sampling	Completed on			: 11:00 AM (27/03/2021)	
	Actual Tin	me of Sampling (Hrs)			: 24 Hrs.	
	Average f	low Rate for particulate matter ((m ³ /minute)	1	: 1.15	
	Total Vol	ume of air sampled for particula	te matter (m ³)	: 1656 🔊	
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1 05	Particulate Matter, PM 2.5	$\mu g/m^3$	48.1	60 -0	CPCB Guideline/Gravimetric/
	2	Particulate Matter, PM	µg/m ³	73.2	100	(AAL/SOP/ENV/002) IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO ₂)	µg/m ³	9.5	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO ₂)	μg/m ³	31.6	80	IS-5182(P-6)-2006
)	5	Carbon Monoxide (as CO)	mg/m ³	NOS	01 02(8hr)	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 ₃)	$\mu g/m^3$	<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 ³	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C ₆ H ₆)	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method
			E	nd of Rep	ort	



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	Technology	Date of Recei	ving:	27/03/2021	
	Farah, Dist. Mathura -281 122(UP)	Date of Starti	ng:	27/03/2021	
Sample Description:	Ambient Air Quality Monitoring	Date of Comp	letion:	31/03/2021	
Date of Monitoring:	26/03/2021 to 27/03/2021	Date of Repor	rting:	31/03/2021	
Purpose of Monitoring:	Self Assessment	Sampling Dor	ne By:	AAL	

TEST RESULT

	Sampling	g Details:				
5	Type of M	Monitoring	-	- 1 V/	: Ambient Air Quality M	onitoring
	Monitori	ng Procedure	AN	ALY	: As per IS-5182, P-14	
	Location	of Sampling Point	X P		: Near STP Plant	
	Sampling	Started on	2.4		: 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 ³ /minute)	~	: 1.1	
	Total Vol	lume of air sampled for particular	te matter (m ³)	: 1584 70	
	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 ₂)	μg/m ³	8.5	80 >	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO ₂)	µg/m ³	29.6	80	IS-5182(P-6)-2006
1	5	Carbon Monoxide (as CO)	mg/m ³	<0.2	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
	6	Ozone (as O ₃)	μg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia (as NH ₃)	μg/m ³	<20.0	400	CPCB Guideline (Indo-Phenol Blue Method)
	8	Lead (as Pb)	$\mu g/m^3$	<0.1	01	IS-5182(P-22)-2004
	9	Nickel (as Ni)	ng/m ³	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C ₆ H ₆)	$\mu g/m^3$	< 0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method
			E	nd of Rep	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
issued 10.	Technology	Date of Receiving:	27/03/2021
Issued To:	M/a Hindustan College of Spierce &	Report No. AAL I	ENV-20210327010
	(TEOT OLIVITIONTE)		

TEST RESULTS

S. No.	Test Parameter	Unit	Results	YTICA Requ (as per CPC Limits in	irement CB Guidelines) dB(A) Leq.	
1	Noise Level	15	n	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	35.4	50	-	-
	L10	dB(A)	61.5	- 0		
	L50	dB(A)	49.8		-	
	L90	dB(A)	44.6	2 . 20	-	-
	Leq	dB(A)	57.2	- 2	-	-
	Lmax	dB(A)	71.4	· · 0	-	-
	1. P	4		A: Industrial Area	75	70
	Leq-Day	dB(A)	58.1	B: Commercial Area	65	55
		12		C: Residential Area	55	45
	Leq-Night	dB(A)	48.4	D: Silence Zone	50	40
			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
	Technology 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

S. No.	Test Parameter	Unit	Results	A CALE AND A CALE AND A CALE A	irement CB Guidelines) dB(A) Leg.	
1	Noise Level	13	Alt	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	33.6	5.0	-	-
	L10	dB(A)	55.2	-100/	-	
	L50	dB(A)	46.1	. \0	-	
	L90	dB(A)	40.5	- R	-	
	Leq	dB(A)	48.3	- <u>2</u>	-	-
	Lmax	dB(A)	69.3	- 6		-
		4		A: Industrial Area	75	70
	Leq-Day	dB(A)	49.5	B: Commercial Area	65	55
		2		C: Residential Area	55	45
	Leq-Night	dB(A)	44.6	D: Silence Zone	50	40
0		10	**End of	Report**		



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date of issue of report unless specified.

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Issued To:	M/s Hindustan College of Science &	Report No. AAL E	ENV-20210327012
	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
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	: DG S	ection		
Stack Identification	Stack	Attached to DG		
Source of Emission	: DG S	et		
Capacity	: 250 K	VA-DG No.1		
Type of Stack	: Metal	17		
Diameter of Stack	: 12"	101		
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 pe	r requirement		
Duration of Monitoring	: 30 mi	n.		
Emission Control (if any)	: Nil	101		
Observations		· Y/		
Ambient Temperature(°C)	7100:34			
Stack Temperature (°C)	105 : 176			
Velocity (m/s)	: 10.8			
Flow Rate(Nm ³ /hr)	: 1015.2	2		
S. No. Test Parameter	Unit	Results	Limits	Test Methods
1 Particulate Matter (PM)	g/kw-hr	0.13	0.3	IS 11255(P-1)-1985
2 Sulphur Dioxide (as SO ₂)	g/kw-hr	0.35	-	IS 11255(P-2)-1985
3 Oxide of Nitrogen (as NO _x)	g/kw-hr	2.84	9.2	IS 11255(P-7)-2005
4 Carbon Monoxide (CO)	g/kw-hr	1.19	3.5	By GC
5 Hydrocarbon (as HC)	g/kw-hr	0.86	1.3	By GC
*	*End of Report**			



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Issued To:	M/s Hindustan College of Saianas &	Report No. AAL E	ENV-20210327013	
issued 10.	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	
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	: DG S	ection		
Stack Identification	ALVT: Stack	Attached to DG		
Source of Emission	: DGS	et		
Capacity	: 250 k	VA - D G No.2		
Type of Stack	: Metal	121		
Diameter of Stack	: 12"	101		
Height of Stack from Ground Level	: 21m	101		
Height from Roof Level		170		
Height at Which Sampling Port	: 12m	P	Peter an	
Product Manufacturing	: Colle	ge 📃 🗖	1.	
Type of Fuel Used	: HSD	19	1 2	
Normal Operating Schedule	: As pe	r requirement		
Duration of Monitoring	: 30 mi	n.		
Emission Control (if any)	: Nil	101		
Observations		·		
Ambient Temperature(°C)	: 34	17		
Stack Temperature (°C)	NOS : 196			
Velocity (m/s)	: 10.2			
Flow Rate(Nm ³ /hr)	: 956.8			
S. No. Test Parameter	Unit	Results	Limits	Test Methods
1 Particulate Matter (PM)	g/kw-hr	0.14	0.3	IS 11255(P-1)-1985
2 Sulphur Dioxide (as SO ₂)	g/kw-hr	0.47	-	IS 11255(P-2)-1985
3 Oxide of Nitrogen (as NO _x)	g/kw-hr	3.11	9.2	IS 11255(P-7)-2005
4 Carbon Monoxide (CO)	g/kw-hr	1.37	3.5	By GC
5 Hydrocarbon (as HC)	g/kw-hr	0.95	1.3	By GC
*	*End of Report**			



Page 1 of 1

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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 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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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana) Ph.: 7082301442, 9250014551 Email : aalkundli@gmail.com VAL 1 1

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the sta	(TEST CERTIFICATE)		Page 1 of 1
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL WQT-	20210327005
issued fo.	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 described as STP Inlet Water, was	Date of Reporting:	31/03/2021
	received.	Sample Quantity:	1 Litre
		Sample Packing Condition	: Plastic Bottle
you the		Sample Collected By:	AAL

TEST RESULT

No.	Test parameters	Unit	Results	Testing Method
1	рН	ANALITICA	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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	At and The		10/	

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and the second	(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 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

S No.	Test parameters	Unit	Results	Requirement a Guide	Requirement as per CPCB Guideline		
	1	AN		Into Inland Surface Water	On land for Irrigation		
1	pH Value	0	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	

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	TEST CERTIFICATE	P	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 Forah Dist Mathura 281 122(UD)	Date of Starting:	27/03/2021
·	Faran, Dist. Matnura -281 122(UP)	Date of Completion:	31/03/2021
Sample Description:	One Sample described as Drinking Water (R O	Date of Reporting:	31/03/2021
	Water) was received.	Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

1	S. No.	Test parameters	Unit	Results	Requirem IS: 10	ents As per 500-2012	Testing Method	Conformity
			SI		Acceptable Limit	Permissible Limit		
	1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1983	Yes
	2	Odour	2/-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
	3	Taste	₹/ ·	Agreeable	Agreeable	Agreeable	IS 3025(P-7)-2017	Yes
	4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
	5	pH	<u>z</u> (-	7.10	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
	6	Total Hardness (as CaCO ₃)	g mg/l	36.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
	7	Iron (as Fe)	mg/I	<0.1	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes
)	8	Chlorides (as Cl)	mg/l	357.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
	9	Residual free chlorine	mg/l	Nil	0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-1986	•
	10	Total Dissolved Solids	mg/l	174.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
	11	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
	12	Total Coliform	Per 100ml	Absent	Shall not be de 100ml o	etectable in any of sample.	IS 1622-1981	Yes

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

End of Report

(Microbiologist)



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Website : www.aalkundli.con	n
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Margan Dehi Highway, NH-2 gran Dehi Highway, NH-2 Fank, Dist. Matura: -281 122(UP) Parab., Dist. Matura: -281 122(UP) Sample Description: One sample described as Bore well Water, was received. Date of Completion: 3103/2021 Date of Completion: Sample Packing Condition: Sample Packing Condita: Sample Packing Condition: Sample Packing Condita				TEST CEF	RTIFICATE		Page	1 of 1		
Issued 16 ² MAS lindustan College of Science & Technology Aga Debli Highway, N122 Date of Receiving: 27/03/2021 27/03/2021 Sample Description: One sample described as Bore well Water, was received. Date of Receiving: Sample Packing Condition: Sample Packing Conding Condition: Sample Packing Condition: Sample Packi		D.P.Y				Report No.	AAL WQT-2021	0327008	3	
Sample Description: One sample described as Bore well Water, was received. Date of Reputing: 3 103/2021 Sample Factor Competing: 3 103/2021 Colour Testing Method Conformition: A competing: 3 103/2021 A competing: Colspan="2">Conformition: A competing: Sample Factor Conformition: A competing: Sample Factor Conformition: Conformition: Colour Hazer (Sample Factor Conformition: Sample Factor Conformition: Sample Factor Conformition: A contrable factor Conformition: Colspan= Colspan="2">Colspan= Colspan="2">Colspan= Colspan="2">Colspan= Colspan="2">Colspan= Colspan="2" Colspan= Colspan="2"	Issued	To: M/s I Agra Farah	Hindustan College of So Delhi Highway, NH-2 , Dist. Mathura -281 122	cience & Technolog 2(UP)	gy	Date of Receivin Date of Starting	g:	27/03/	/2021 /2021	
S. No.Test parametersTest RESULTSRequirements A precomments A pr	Sample	e Description: One s	ample described as Bore	e well Water, was n	received.	Date of Complet Date of Reportin Sample Quantity Sample Packing Sample Collector	ion: ig: v: Condition:	31/03/ 31/03/ 2 Litro Plastic	/2021 /2021 e c Bottle	
S. No. Test parameters Unit Results Requirements As per IS: 1050-0212 Acceptable Testing Method Conformi 1 Colour Hazen <5.0	8			TEST RES	SULTS	Sample Concerts	a by.	AAL		_
Acceptable Permissible 1 Colour Hazen <5.0	S. No.	Test parameters	Unit	Results	Requirem IS: 104	tents As per	Testing Meth	od	Conformity	
Limit Colour Hazen Hazen <5.0 Shax. IS 3025(P-4)-1983 Yes Qdour - Agreeable Agreeable Agreeable IS 3025(P-5)-2018 Yes Torbidity NTU 23 pH Value - 7.24 6.5-8.5 No relaxation IS 3025(P-1)-1983 Yes Torbidity NTU 23 1.6-5-8.5 No relaxation IS 3025(P-1)-1984 No Aluminium (as A) mg/l BDL 0.03 Max 0.2 Max. IS 3025(P-5)-2003 Yes Anionic Detergent (as MBAS) mg/l BDL 0.3 Max 0.2 Max. IS 3025(P-57)-2005 Yes Calcium (as Ca) mg/l BDL 0.5 Max. 1.0 Max IS 3025(P-40)-1991 No Christing (as Ca) mg/l 1367.0 250 Max. 1000 Max. IS 3025(P-40)-1984 Yes Calcium (as Ca) mg/l 0.29 1.0 Max. 1.5 Max. IS 3025(P-40)-1984 Yes I'ron (as Fe) mg/l 0.29 1.0 Max. 1.5 Max. IS 3025(P-40)-198					Acceptable	Permissible				
2 Odour - Agreeable Agreeable IS 3025(P-5)-2018 Yes 3 pH Value - 7,24 6.5% 5. No relaxation IS 3025(P-11)-1983 Yes 4 Turbidity NTU 2.3 I Max. 5 Max. IS 3025(P-10)-1984 No 6 Aluminium (as Al) mg/1 BDL 0.03 Max. 0.20 Max. IS 3025(P-5)-2003 Yes 7 Anionic Detergent (as MBAS) mg/1 BDL 0.5 Max. 2.4 Max. IS 3025(P-5)-2005 Yes 8 Boron (as B) mg/1 BDL 0.5 Max. 2.4 Max. IS 3025(P-3)-1988 No 10 Chlorides (as C1) mg/1 1367.0 250 Max. 1000 Max. IS 3025(P-4)-1992 Yes 12 Fluoride (as F) mg/1 Nil 0.02 Max. 1.0 Max. IS 3025(P-4)-1984 Yes 13 Residual free chlorine mg/1 Nil 0.2 Min. I.0 Max. IS 3025(P-4)-1986 - 14 fron (as Fe)	1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-1	.983	Yes	
3 pH Value - 7.24 6.5*8.5 No relaxation IS 3025(P-11)-1983 Yes 4 Turbidity NTU 2.3 I Max. 5 Max. IS 3025(P-10)-1984 Yes 5 Total Dissolved Solids mg/1 3510.0 500 Max. IS 3025(P-10)-1984 No 6 Aluminium (as Al) mg/1 BDL 0.2 Max. IS 3025(P-55)-2003 Yes 7 Anionic Detergent (as MBAS) mg/1 BDL 0.2 Max. IS 3025(P-57)-2005 Yes 8 Boron (as C) mg/1 BDL 0.5 Max. 2.4 Max. IS 3025(P-47)-2005 Yes 9 Calcium (as Ca) mg/1 1367.0 250 Max. 1000 Max. IS 3025(P-42)-1981 No 10 Copper (as Cu) mg/1 0.93 I Max. 1.5 Max. IS 3025(P-46)-1984 Yes 13 Residual free chlorine mg/1 0.29 1.0 Max. No relaxation IS 3025(P-46)-1984 Yes 14 frorn (as Fe) mg/1 0	2	Odour		Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2	018	Yes	
4 Turbidity NTU 2.3 1 Max. 5 Max. IS 3025(P-10)-1984 Yes 5 Total Dissolved Solids mg/l 5510.0 500 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-16)-1984 No 7 Anionic Detergent (as MBAS) mg/l Bbc-on. 0.2 Max. I 0 Max. APHA 5540 C Yes 8 Boron (as B) mg/l 0.5 Max. 2.4 Max. IS 3025(P-40)-1991 No 10 Chlorides (as Cl) mg/l 1367.0 250 Max. 1000 Max. IS 3025(P-40)-1991 No 10 Chorides (as F) mg/l BDL 0.05 Max. IS 3025(P-40)-1984 Yes 12 Fluoride (as F) mg/l BDL 0.05 Max. IS 3025(P-40)-1984 Yes 13 Residual free chlorine mg/l Ni Max. IS 3025(P-30)-006 Yes 14 Iron (as Fe) mg/l 0.29 Jo	3	pH Value	-	7,24	6.5-8.5	No relaxation	IS 3025(P-11)-	1983	Yes	
5 Total Dissolved Solids mg/l 3510.0 500 Max. 2000 Max. IS 3025(P-16)1984 No 6 Aluminium (as Al) mg/l BDL 0.03 Max. 0.2 Max. IS 3025(P-55)-2003 Yes 7 Anionic Detergent (as IBAS) mg/l BDL 0.2 Max. 1.0 Max. APHA 5540 C Yes 8 Boron (as B) mg/l BDL 0.2 Max. 1.0 Max. APHA 5540 C Yes 9 Calcium (as Ca) mg/l BDL 0.5 Max. 2.4 Max. IS 3025(P-37)-2005 Yes 10 Chlorides (as Cl) mg/l 1367.0 2500 Max. 1000 Max. IS 3025(P-40)-1991 No 11 Copper (as Cu) mg/l BDL 0.05 Max. 1.5 Max. IS 3025(P-40)-1984 Yes 12 Flaoride (as F) mg/l No 0.2 Min. 1.0 Max. IS 3025(P-40)-1984 Yes 14 fron (as Fe) mg/l 0.29 1.0 Max. No relaxation IS 3025(P-40)-1986 - <td< td=""><td>4</td><td>Turbidity</td><td>NTU</td><td>N 2.3 L</td><td>1 Max.</td><td>5 Max.</td><td>IS 3025(P-10)-</td><td>1984</td><td>Yes</td><td></td></td<>	4	Turbidity	NTU	N 2.3 L	1 Max.	5 Max.	IS 3025(P-10)-	1984	Yes	
6 Aluminium (as Al) mg/l BDL (nL+am) 0.03 Max. 0.2 Max. IS 3025(P-55)-2003 Yes 7 Anionic Detergent (as MBAS) mg/l BDL (nL+am) 0.2 Max. 1.0 Max. APHA 5540 C Yes 8 Boron (as B) mg/l BDL (nL+am) 0.5 Max. 2.4 Max. IS 3025(P-57)-2005 Yes 9 Calcium (as Ca) mg/l 282.0 75 Max. 200 Max. IS 3025(P-40)-1991 No 10 Chorides (as Cl) mg/l 1367.0 250 Max. 1.000 Max. IS 3025(P-42)-1992 Yes 11 Copper (as Cu) mg/l BDL (nL+am) 0.05 Max. 1.0 Max. IS 3025(P-42)-1992 Yes 12 Fluoride (as F) mg/l 0.29 Max. No relaxation IS 3025(P-40)-1984 Yes 13 Residual free chlorine mg/l 0.29 Max. No relaxation IS 3025(P-40)-1984 Yes 14 fron (as Fe) mg/l 0.29 Max. No relaxation IS 3025(P-40)-1984 <t< td=""><td>5</td><td>Total Dissolved Solid</td><td>s mg/l</td><td>3510.0</td><td>500 Max.</td><td>2000 Max.</td><td>IS 3025(P-16)1</td><td>984</td><td>No</td><td></td></t<>	5	Total Dissolved Solid	s mg/l	3510.0	500 Max.	2000 Max.	IS 3025(P-16)1	984	No	
7 Anionic Detergent (as MBAS) mg/l BDL (DC-P) 0.2 Max. 1.0 Max. APHA 5540 C Yes 8 Boron (as B) mg/l BDL (DC-P) 0.5 Max. 2.4 Max. IS 3025(P-57)-2005 Yes 9 Calcium (as Ca) mg/l 282.0 75 Max. 200 Max. IS 3025(P-40)-1991 No 10 Chlorides (as Cl) mg/l 1367.0 250 Max. 1000 Max. IS 3025(P-40)-1992 Yes 11 Copper (as Cu) mg/l BDL (DC-e) 0.05 Max. 1.5 Max. IS 3025(P-40)-1984 Yes 12 Fluoride (as F) mg/l 0.93 1 Max. 1.5 Max. IS 3025(P-50)-1986 - 13 Residual free chlorine mg/l 0.29 Min. 1.0 Max. No relaxation IS 3025(P-60)-1984 Yes 14 fron (as Fc) mg/l 219.0 30 Max. 100 Max. IS 3025(P-50)-2006 Yes 15 Magnesium (as Mg) mg/l 219.0 30 Max. No relaxation IS 3025(P-6)-1994 No 16 Magnesium (as Mg) mg/l BDL 0.001 Ma	6	Aluminium (as Al)	mg/l	BDL	0.03 Max.	0.2 Max.	IS 3025(P-55)-2	2003	Yes	
8 Boron (as B) mg/l BOL (abc) 0.5 Max. 2.4 Max. 15 3025(P-57)-2005 Yes 9 Calcium (as Ca) mg/l 282.0 75 Max. 200 Max. 100 OMax. 15 3025(P-57)-2005 Yes 10 Chlorides (as Cl) mg/l 1367.0 250 Max. 1000 Max. 15 3025(P-40)-1991 No 11 Copper (as Cu) mg/l BDL 0.05 Max. 1.5 Max. 15 3025(P-40)-1991 Yes 12 Fluoride (as F) mg/l 0.93 1 Max. 1.5 Max. 18 3025(P-60)-1984 Yes 13 Residual free chlorine mg/l 0.29 10 Max. 10.0 Max. 13 3025(P-40)-1994 No 14 fron (as Fe) mg/l 219.0 30 Max. 100 Max. 15 3025(P-40)-1994 No 16 Mangensium (as Mg) mg/l BDL 0.1 Max. 0.3 Max. 15 3025(P-40)-1994 No 17 Nitrate (as NO ₃) mg/l BDL 0.01 Max. No relaxation 15 3025(P-4)-1988	7	Anionic Detergent (as	s MBAS) mg/l	BDL	0.2 Max.	1.0 Max.	APHA 5540	С	Yes	
9 Calcium (as Ca) mg/1 282.0 75 Max. 200 Max. IS 3025(P-40)-1991 No 10 Chlorides (as Cl) mg/1 1367.0 250 Max. 1000 Max. IS 3025(P-42)-1992 Yes 11 Copper (as Cu) mg/1 BDL 0.05 Max. 1.5 Max. IS 3025(P-42)-1992 Yes 12 Fluoride (as F) mg/1 0.93 1 Max. 1.5 Max. IS 3025(P-42)-1992 Yes 13 Residual free chlorine mg/1 0.93 1 Max. 1.5 Max. IS 3025(P-42)-1992 Yes 14 fron (as Fe) mg/1 0.29 1.0 Max. No relaxation IS 3025(P-53)-2003 Yes 15 Magnesium (as Mg) mg/1 19.0 30 Max. 100 Max. IS 3025(P-46)-1994 No 16 Manganese (as Mn) mg/1 BDL 0.1 Max. 0.3 Max. IS 3025(P-43)-1992 Yes 17 Nitrate (as NO ₃) mg/1 BDL 0.01 Max. No relaxation IS 3025(P-43)-1992 Yes 18 Phenolic Compound (as C,H ₃ OH mg/1 497.0 200 Max.	8	Boron (as B)	mg/l	BDL	0.5 Max.	2.4 Max.	IS 3025(P-57)-2	2005	Yes	
10 Chlorides (as Cl) mg/l 1367.0 250 Max. 1000 Max. IS 3025(P-32)-1988 No 11 Copper (as Cu) mg/l BDL (attreads) 0.05 Max. 1.5 Max. IS 3025(P-42)-1992 Yes 12 Fluoride (as F) mg/l 0.93 1 Max. 1.5 Max. IS 3025(P-42)-1992 Yes 13 Residual free chlorine mg/l 0.93 1 Max. 1.5 Max. IS 3025(P-42)-1992 Yes 14 iron (as Fe) mg/l 0.29 1.0 Max. No relaxation IS 3025(P-53)-2003 Yes 15 Magnesium (as Mg) mg/l 12.6 30 Max. 100 Max. IS 3025(P-53)-2003 Yes 16 Magnese (as Mn) mg/l 12.6 0.01 Max. 0.3 Max. IS 3025(P-53)-2006 Yes 18 Phenolic Compound (as C44;OH) mg/l 12.6 0.01 Max. 0.30 Max. IS 3025(P-56)-2003 Yes 20 Sulphate (as SO_4) mg/l 497.0 200 Max. 600 Max. IS 3025(P-26)-2003 <	9	Calcium (as Ca)	/ C/ mg/l	282.0	75 Max.	200 Max.	IS 3025(P-40)-	1991	No	
11Copper (as Cu)mg/lBDL $(abc + 69)$ 0.05 Max.1.5 Max.1S 3025(P-42)-1992Yes12Fluoride (as F)mg/l0.931 Max.1.5 Max.1S 3025(P-42)-1992Yes13Residual free chlorinemg/l0.931 Max.1.5 Max.1S 3025(P-40)-1984Yes14Iron (as Fe)mg/l0.291.0 Max.1.0 Min.IS 3025(P-53)-2003Yes15Magnesium (as Mg)mg/l219.030 Max.100 Max.IS 3025(P-46)-1994No16Manganese (as Mn)mg/lBDL (bbc.600)0.1 Max.0.3 Max.IS 3025(P-59)-2006Yes17Nitrate (as NO ₃)mg/l12.645 Max.No refaxationIS 3025(P-43)-1992Yes18Phenolic Compound (as C ₄) _(CH) mg/lBDL (bbc.600)0.01 Max.0.002 Max.IS 3025(P-43)-1992Yes19Selenium(as Se)mg/lBDL (bbc.600)0.01 Max.No relaxationIS 3025(P-41)-1986Yes20Sulphate (as SO ₄)mg/l497.0200 Max.400 Max.IS 3025(P-41)-1986Yes21Total Alkalinity (as CaCO ₃)mg/l1610.0200 Max.600 Max.IS 3025(P-41)-1994Yes22Total Hardness (as CACO ₃)mg/lBDL (bbc.600)0.03 Max.No relaxationIS 3025(P-41)-1992Yes23Zinc (as CN)mg/lBDL (bbc.600)0.03 Max.No relaxationIS 3025(P-47)-1994Yes24 <td< td=""><td>10</td><td>Chlorides (as Cl)</td><td>mg/l</td><td>1367.0</td><td>250 Max.</td><td>1000 Max.</td><td>IS 3025(P-32)-</td><td>1988</td><td>No</td><td></td></td<>	10	Chlorides (as Cl)	mg/l	1367.0	250 Max.	1000 Max.	IS 3025(P-32)-	1988	No	
12 Fluoride (as F) mg/l 0.93 1 Max. 1.5 Max. IS 3025(P-6)-1984 Yes 13 Residual free chlorine mg/l Nil 0.2 Min. (nbm Cilement) 1.0 Min. (nbm Cilement) IS 3025(P-26)-1986 - 14 Iron (as Fe) mg/l 0.29 1.0 Max. No relaxation IS 3025(P-3)-2003 Yes 15 Magnesium (as Mg) mg/l 219.0 30 Max. 100 Max. IS 3025(P-46)-1994 No 16 Margenesic (as Mn) mg/l 12.6 45 Max. No relaxation IS 3025(P-43)-1988 Yes 17 Nitrate (as NO ₃) mg/l BDL 0.01 Max. 0.022 Max. IS 3025(P-43)-1988 Yes 18 Phenolic Compound (as C _H ,OH) mg/l BDL 0.001 Max. 0.002 Max. IS 3025(P-43)-1986 No 20 Sulphate (as SO ₄) mg/l 497.0 200 Max. 400 Max. IS 3025(P-24)-1986 No 21 Total Alkalinity (as CaCO ₃) mg/l 1610.0 200 Max. 600 Max.	11	Copper (as Cu)	mg/l	BDL	0.05 Max.	1.5 Max.	IS 3025(P-42)-	1992	Yes	
13 Residual free chlorine mg/l Nil 0.2 Min. (here Clorinal) 1.0 Mir. (view Ribatines) IS 3025(P-26)-1986 - 14 fron (as Fe) mg/l 0.29 0.0 Max. No relaxation IS 3025(P-26)-1986 - 15 Magnesium (as Mg) mg/l 219.0 30 Max. 100 Max. IS 3025(P-36)-2003 Yes 16 Manganese (as Mn) mg/l BDL 0.1 Max. 0.3 Max. IS 3025(P-34)-1988 Yes 17 Nitrate (as NO ₃) mg/l BDL 0.01 Max. No relaxation IS 3025(P-34)-1988 Yes 18 Phenolic Compound (as C ₄ H ₅ OH) mg/l BDL 0.001 Max. 0.002 Max. IS 3025(P-34)-1988 Yes 20 Sulphate (as SO ₄) mg/l BDL 0.01 Max. No relaxation IS 3025(P-34)-1986 No 21 Total Alkalinity (as CaCO ₃) mg/l 497.0 200 Max. 400 Max. IS 3025(P-32)-1986 Yes 22 Total Hardness (as CaCO ₃) mg/l 1610.0 200 Max. 600 Max. IS 3025(P-31)-1986 Yes 23 Zinc (as Z	12	Fluoride (as F)	mg/l	0.93	1 Max.	1.5 Max.	IS 3025(P-60)-	1984	Yes	
Id Iron (as Fe) mg/l 0.29 1.0 Max. No relaxation IS 3025(P-53)-2003 Yes 15 Magnesium (as Mg) mg/l 219.0 3.0 Max. 100 Max. IS 3025(P-46)-1994 No 16 Magnesium (as Ng) mg/l BDL 0.1 Max. 0.3 Max. IS 3025(P-46)-1994 No 17 Nitrate (as NO ₃) mg/l BDL 0.1 Max. 0.3 Max. IS 3025(P-46)-1994 No 18 Phenolic Compound (as C ₄ H ₃ OH) mg/l BDL 0.001 Max. No relaxation IS 3025(P-43)-1988 Yes 19 Selenium(as Se) mg/l BDL 0.001 Max. No relaxation IS 3025(P-24)-1986 No 20 Sulphate (as SO ₄) mg/l 497.0 200 Max. 400 Max. IS 3025(P-24)-1986 No 21 Total Alkalinity (as CaCO ₃) mg/l 432.0 200 Max. 600 Max. IS 3025(P-21)-1986 Yes 22 Total Hardness (as CaCO ₃) mg/l 0.37 5 Max. IS 3025(P-21)-2009 N	13	Residual free chlorine	e mg/l	Nil	0.2 Min.	1.0 Min.	IS 3025(P-26)-	1986	-	
15 Magnesium (as Mg) mg/l 219.0 30 Max. 100 Max. 15 3025(P-46)-1994 No 16 Manganese (as Mn) mg/l BDL 0.1 Max. 0.3 Max. 100 Max. 15 3025(P-46)-1994 Yes 17 Nitrate (as NO ₃) mg/l 12.6 45 Max. No refaxation 15 3025(P-34)-1988 Yes 18 Phenolic Compound (as C ₄ H ₅ OH) mg/l BDL 0.001 Max. 0.002 Max. 15 3025(P-43)-1992 Yes 19 Selenium(as Se) mg/l BDL 0.01 Max. No relaxation IS 3025(P-43)-1982 Yes 20 Sulphate (as SO ₄) mg/l 497.0 200 Max. 400 Max. IS 3025(P-24)-1986 No 21 Total Alkalinity (as CaCO ₃) mg/l 432.0 200 Max. 600 Max. IS 3025(P-21)-1986 Yes 22 Total Hardness (as CaCO ₃) mg/l 1610.0 200 Max. 600 Max. IS 3025(P-49)-1994 Yes 23 Zinc (as Zn) mg/l 0.37 5 Max. 15 Max. IS 3025(P-47)-1994 Yes 24 Cadmium (as Cd) <td< td=""><td>14</td><td>Iron (as Fe)</td><td>mg/l</td><td>0.29</td><td>1.0 Max.</td><td>No relaxation</td><td>IS 3025(P-53)-2</td><td>2003</td><td>Yes</td><td></td></td<>	14	Iron (as Fe)	mg/l	0.29	1.0 Max.	No relaxation	IS 3025(P-53)-2	2003	Yes	
16Manganese (as Mn)ng/lBDL ($DL=0.05$)0.1 Max.0.3 Max.IS 3025(P-59)-2006Yes17Nitrate (as NO ₃)ng/l12.645 Max.No relaxationIS 3025(P-34)-1988Yes18Phenolic Compound (as C4H ₃ OH)ng/lBDL BDL0.001 Max.0.002 Max.IS 3025(P-43)-1992Yes19Sclenium(as Se)ng/lBDL BDL actional0.01 Max.No relaxationIS 3025(P-43)-1992Yes20Sulphate (as SO ₄)ng/l497.0200 Max.400 Max.IS 3025(P-26)-2003Yes21Total Alkalinity (as CaCO ₃)mg/l432.0200 Max.600 Max.IS 3025(P-24)-1986No22Total Hardness (as CaCO ₃)mg/l1610.0200 Max.600 Max.IS 3025(P-21)-2009No23Zinc (as Zn)mg/l0.375 Max.15 Max.IS 3025(P-21)-2009No24Cadmium (as Cd)mg/lBDL ($DL=0.05$)0.05 Max.No relaxationIS 3025(P-27)-1986Yes25Cyanide (as CN)mg/lBDL ($DL=0.05$)0.01 Max.No relaxationIS 3025(P-47)-1994Yes27Mercury (as Hg)mg/lBDL ($DL=0.01$)0.01 Max.No relaxationIS 3025(P-47)-1994Yes28Total Arsenic (as As)mg/lBDL ($DL=0.01$)0.01 Max.No relaxationIS 3025(P-48)-1992Yes29Total Arsenic (as As)mg/lBDL ($DL=0.01$)0.01 Max.No relaxation <td< td=""><td>15</td><td>Magnesium (as Mg)</td><td>mg/l</td><td>219.0</td><td>30 Max.</td><td>100 Max.</td><td>IS 3025(P-46)-</td><td>1994</td><td>No</td><td></td></td<>	15	Magnesium (as Mg)	mg/l	219.0	30 Max.	100 Max.	IS 3025(P-46)-	1994	No	
17Nitrate (as NO3) $mg/1$ 12.6 45 Max.No relaxationIS $3025(P-34)-1988$ Yes18Phenolic Compound (as CaH3OH) $mg/1$ BDL 0.001 Max. 0.002 Max. $IS 3025(P-34)-1992$ Yes19Selenium(as Se) $mg/1$ BDL 0.001 Max. 0.002 Max. $IS 3025(P-34)-1992$ Yes20Sulphate (as SO4) $mg/1$ BDL 0.001 Max.No relaxation $IS 3025(P-34)-1992$ Yes21Total Alkalinity (as CaCO3) $mg/1$ 497.0 200 Max. 400 Max. $IS 3025(P-24)-1986$ No22Total Hardness (as CaCO3) $mg/1$ 1610.0 200 Max. 600 Max. $IS 3025(P-24)-1986$ Yes23Zinc (as Zn) $mg/1$ 0.37 5 Max. 15 Max. $IS 3025(P-21)-2009$ No24Cadmiun (as Cd) $mg/1$ BDL 0.003 Max.No relaxation $IS 3025(P-49)-1994$ Yes24Cadmiun (as Cd) $mg/1$ BDL 0.05 Max.No relaxation $IS 3025(P-47)-1994$ Yes25Cyanide (as CN) $mg/1$ BDL 0.01 Max.No relaxation $IS 3025(P-47)-1994$ Yes26Lead(as Pb) $mg/1$ BDL 0.001 Max.No relaxation $IS 3025(P-47)-1994$ Yes27Mercury (as Hg) $mg/1$ BDL 0.01 Max.No relaxation $IS 3025(P-48)-1992$ Yes28Total Arsenic (as As) $mg/1$ BDL 0.001 Max.No relaxation $IS 3025(P-52)-2003$ Yes <td>16</td> <td>Manganese (as Mn)</td> <td>mg/l</td> <td>BDL</td> <td>0.1 Max.</td> <td>0.3 Max.</td> <td>IS 3025(P-59)-2</td> <td>2006</td> <td>Yes</td> <td></td>	16	Manganese (as Mn)	mg/l	BDL	0.1 Max.	0.3 Max.	IS 3025(P-59)-2	2006	Yes	
18 Phenolic Compound (as C _{H3} OH) mg/l BDL medotoric Decision 0.001 Max. 0.002 Max. IS 3025(P-43)-1992 Yes 19 Selenium(as Se) mg/l BDL mg/l 0.01 Max. No relaxation IS 3025(P-43)-1992 Yes 20 Sulphate (as SO ₄) mg/l 497.0 200 Max. 400 Max. IS 3025(P-24)-1986 No 21 Total Alkalinity (as CaCO ₃) mg/l 432.0 200 Max. 600 Max. IS 3025(P-24)-1986 Yes 22 Total Alkalinity (as CaCO ₃) mg/l 1610.0 200 Max. 600 Max. IS 3025(P-21)-2009 No 23 Zinc (as Zn) mg/l 0.37 5 Max. 15 Max. IS 3025(P-41)-1994 Yes 24 Cadmium (as Cd) mg/l BDL (0L=0001) 0.003 Max. No relaxation IS 3025(P-47)-1994 Yes 26 Lead(as Pb) mg/l BDL (0L=001) 0.01 Max. No relaxation IS 3025(P-47)-1994 Yes 27 Mercury (as Hg) mg/l BDL (0L=001) 0.01 Max.	17	Nitrate (as NO ₃)	mg/l	(DL=0.05) 12.6	45 Max.	No relaxation	IS 3025(P-34)-	1988	Yes	
19 Selenium(as Se) mg/l mg/l 0.01 Max. No relaxation IS 3025(P-56)-2003 Yes 20 Sulphate (as SO ₄) mg/l 497.0 200 Max. 400 Max. IS 3025(P-24)-1986 No 21 Total Alkalinity (as CaCO ₃) mg/l 432.0 200 Max. 600 Max. IS 3025(P-23)-1986 Yes 22 Total Alkalinity (as CaCO ₃) mg/l 1610.0 200 Max. 600 Max. IS 3025(P-21)-2009 No 23 Zinc (as Zn) mg/l 0.37 5 Max. 15 Max. IS 3025(P-49)-1994 Yes 24 Cadmium (as Cd) mg/l BDL (DL=0002) 0.003 Max. No relaxation IS 3025(P-47)-1992 Yes 25 Cyanide (as CN) mg/l BDL (DL=0001) 0.05 Max. No relaxation IS 3025(P-47)-1994 Yes 26 Lead(as Pb) mg/l BDL (DL=001) 0.01 Max. No relaxation IS 3025(P-47)-1994 Yes 27 Mercury (as Hg) mg/l BDL (DL=001) 0.01 Max. No relaxation <td>18</td> <td>Phenolic Compound (</td> <td>as C₆H₃OH) mg/l</td> <td>BDL</td> <td>0.001 Max.</td> <td>0.002 Max.</td> <td>IS 3025(P-43)-</td> <td>1992</td> <td>Yes</td> <td></td>	18	Phenolic Compound (as C ₆ H ₃ OH) mg/l	BDL	0.001 Max.	0.002 Max.	IS 3025(P-43)-	1992	Yes	
20Sulphate (as SO_4)mg/l 497.0 200 Max. 400 Max.IS $3025(P-24)-1986$ No21Total Alkalinity (as CaCO_3)mg/l 432.0 200 Max. 600 Max.IS $3025(P-23)-1986$ Yes22Total Hardness (as CaCO_3)mg/l1610.0200 Max. 600 Max.IS $3025(P-21)-2009$ No23Zine (as Zn)mg/l 0.37 5 Max.15 Max.IS $3025(P-21)-2009$ No24Cadmium (as Cd)mg/lBDL (DL-002) 0.003 Max.No relaxationIS $3025(P-41)-1994$ Yes25Cyanide (as CN)mg/lBDL (DL-003) 0.05 Max.No relaxationIS $3025(P-27)-1986$ Yes26Lead(as Pb)mg/lBDL (DL-003) 0.01 Max.No relaxationIS $3025(P-47)-1994$ Yes27Mercury (as Hg)mg/lBDL (DL-004) 0.01 Max.No relaxationIS $3025(P-47)-1994$ Yes28Total Arsenic (as As)mg/lBDL (DL-004) 0.01 Max.No relaxationIS $3025(P-37)-1988$ Yes29Total Chromium (as Cr)mg/lBDL (DL-004) 0.05 Max.No relaxationIS $3025(P-52)-2003$ Yes30E,ColiPer 100mlAbsentShall not be detectable in any 100 ml of sampleIS $1622-1981$ Yes31Total ColiformPer 100mlAbsentShall not be detectable in any 100 ml of sampleIS $1622-1981$ Yes	19	Selenium(as Se)	mg/l	(DL=0.001) BDL	S 0.01 Max.	No relaxation	IS 3025(P-56)-2	2003	Yes	
21 Total Alkalinity (as CaCO ₃) mg/l 432.0 200 Max. 600 Max. IS 3025(P-23)-1986 Yes 22 Total Hardness (as CaCO ₃) mg/l 1610.0 200 Max. 600 Max. IS 3025(P-21)-2009 No 23 Zinc (as Zn) mg/l 0.37 5 Max. 15 Max. IS 3025(P-21)-2009 No 24 Cadmium (as Cd) mg/l BDL 0.003 Max. No relaxation IS 3025(P-41)-1992 Yes 25 Cyanide (as CN) mg/l BDL 0.003 Max. No relaxation IS 3025(P-41)-1992 Yes 26 Lead(as Pb) mg/l BDL 0.05 Max. No relaxation IS 3025(P-47)-1994 Yes 27 Mercury (as Hg) mg/l BDL 0.01 Max. No relaxation IS 3025(P-48)-1992 Yes 28 Total Arsenic (as As) mg/l BDL 0.01 Max. No relaxation IS 3025(P-52)-2003 Yes 29 Total Chromium (as Cr) mg/l BDL 0.05 Max. No relaxation IS 3025(P-52)-2003 Yes 30 E.Coli Per 100ml Absent<	20	Sulphate (as SO ₄)	mg/l	(DL=0.01) 497.0	200 Max.	400 Max.	IS 3025(P-24)-	1986	No	
22 Total Hardness (as CaCO ₃) mg/l 1610.0 200 Max. 600 Max. IS 3025(P-21)-2009 No 23 Zinc (as Zn) mg/l 0.37 5 Max. 15 Max. IS 3025(P-4)-1994 Yes 24 Cadmium (as Cd) mg/l BDL 0.003 Max. No relaxation IS 3025(P-4)-1992 Yes 25 Cyanide (as CN) mg/l BDL 0.05 Max. No relaxation IS 3025(P-27)-1986 Yes 26 Lead(as Pb) mg/l BDL 0.01 Max. No relaxation IS 3025(P-47)-1994 Yes 27 Mercury (as Hg) mg/l BDL 0.01 Max. No relaxation IS 3025(P-47)-1994 Yes 28 Total Arsenic (as As) mg/l BDL 0.01 Max. No relaxation IS 3025(P-48)-1992 Yes 29 Total Chromium (as Cr) mg/l BDL 0.01 Max. No relaxation IS 3025(P-52)-2003 Yes 30 E.Coli Per 100ml Absent Shall not be detectable in any 100 IS 1622-1981 Yes 31 Total Coliform Per 100ml Absent	21	Total Alkalinity (as C	CaCO ₃) mg/l	432.0	200 Max.	600 Max.	IS 3025(P-23)-	1986	Yes	
23Zinc (as Zn)mg/l0.375 Max.15 Max.IS 3025(P-49)-1994Yes24Cadmium (as Cd)mg/lBDL (DL=0.02)0.003 Max.No relaxationIS 3025(P-41)-1992Yes25Cyanide (as CN)mg/lBDL (DL=0.03)0.05 Max.No relaxationIS 3025(P-27)-1986Yes26Lead(as Pb)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-47)-1994Yes27Mercury (as Hg)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-48)-1992Yes28Total Arsenic (as As)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-37)-1988Yes29Total Chromium (as Cr)mg/lBDL (DL=0.05)0.05 Max.No relaxationIS 3025(P-52)-2003Yes30E.ColiPer 100mlAbsentShall not be detectable in any 100 ml of sampleIS 1622-1981Yes31Total ColiformPer 100mlAbsentShall not be detectable in any 100 ml of sampleIS 1622-1981Yes	22	Total Hardness (as Ca	aCO ₃) mg/l	1610.0	200 Max.	600 Max.	IS 3025(P-21)-2	2009	No	
24Cadmium (as Cd)mg/lBDL (DL=0.002)0.003 Max.No relaxationIS 3025(P-41)-1992Yes25Cyanide (as CN)mg/lBDL (DL=0.05)0.05 Max.No relaxationIS 3025(P-27)-1986Yes26Lead(as Pb)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-47)-1994Yes27Mercury (as Hg)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-47)-1994Yes28Total Arsenic (as As)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-37)-1988Yes29Total Chromium (as Cr)mg/lBDL (DL=0.05)0.05 Max.No relaxationIS 3025(P-52)-2003Yes30E.ColiPer 100mlAbsentShall not be detectable in any 100 ml of sampleIS 1622-1981Yes31Total ColiformPer 100mlAbsentShall not be detectable in any 100 IS 1622-1981Yes	23	Zinc (as Zn)	mg/l	0.37	5 Max.	15 Max.	IS 3025(P-49)-	1994	Yes	
25Cyanide (as CN)mg/lBDL (DL=0.05)0.05 Max.No relaxationIS 3025(P-27)-1986Yes26Lead(as Pb)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-47)-1994Yes27Mercury (as Hg)mg/lBDL (DL=0.01)0.001 Max.No relaxationIS 3025(P-47)-1994Yes28Total Arsenic (as As)mg/lBDL (DL=0.01)0.001 Max.No relaxationIS 3025(P-48)-1992Yes29Total Chromium (as Cr)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-37)-1988Yes30E.ColiPer 100mlAbsentShall not be detectable in any 100 ml of sampleIS 1622-1981Yes31Total ColiformPer 100mlAbsentShall not be detectable in any 100 ml of sampleIS 1622-1981Yes	24	Cadmium (as Cd)	mg/l	BDL	0.003 Max.	No relaxation	IS 3025(P-41)-	1992	Yes	
26Lead(as Pb)mg/lBDL (DL=0.05)0.01 Max.No relaxationIS 3025(P-47)-1994Yes27Mercury (as Hg)mg/lBDL (DL=0.01)0.001 Max.No relaxationIS 3025(P-48)-1992Yes28Total Arsenic (as As)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-48)-1992Yes29Total Chromium (as Cr)mg/lBDL (DL=0.05)0.01 Max.No relaxationIS 3025(P-37)-1988Yes30E.ColiPer 100mlAbsentShall not be detectable in any 100IS 1622-1981Yes31Total ColiformPer 100mlAbsentShall not be detectable in any 100IS 1622-1981Yes31Total ColiformPer 100mlAbsentShall not be detectable in any 100IS 1622-1981Yes	25	Cyanide (as CN)	mg/l	BDL	0.05 Max.	No relaxation	IS 3025(P-27)-	1986	Yes	
27Mercury (as Hg)mg/lBDL (DL=0.01)0.001 Max.No relaxationIS 3025(P-48)-1992Yes28Total Arsenic (as As)mg/lBDL (DL=0.01)0.01 Max.No relaxationIS 3025(P-37)-1988Yes29Total Chromium (as Cr)mg/lBDL (DL=0.05)0.05 Max.No relaxationIS 3025(P-37)-1988Yes30E.ColiPer 100mlAbsentShall not be detectable in any 100IS 1622-1981Yes31Total ColiformPer 100mlAbsentShall not be detectable in any 100IS 1622-1981Yes31Total ColiformPer 100mlAbsentShall not be detectable in any 100IS 1622-1981Yes	26	Lead(as Pb)	mg/l	(DL=0.05) BDL	0.01 Max.	No relaxation	IS 3025(P-47)-	1994	Yes	
28 Total Arsenic (as As) mg/l BDL (DL=0.01) 0.01 Max. No relaxation IS 3025(P-37)-1988 Yes 29 Total Chromium (as Cr) mg/l BDL (DL=0.05) 0.05 Max. No relaxation IS 3025(P-52)-2003 Yes 30 E.Coli Per 100ml Absent Shall not be detectable in any 100 IS 1622-1981 Yes 31 Total Coliform Per 100ml Absent Shall not be detectable in any 100 IS 1622-1981 Yes 31 Total Coliform Per 100ml Absent Shall not be detectable in any 100 IS 1622-1981 Yes	27	Mercury (as Hg)	mg/l	BDL	0.001 Max.	No relaxation	IS 3025(P-48)-	1992	Yes	
29 Total Chromium (as Cr) mg/l BDL BDL (DL=0.05) 0.05 Max. No relaxation IS 3025(P-52)-2003 Yes 30 E.Coli Per 100ml Absent Shall not be detectable in any 100 ml of sample IS 1622-1981 Yes 31 Total Coliform Per 100ml Absent Shall not be detectable in any 100 ml of sample IS 1622-1981 Yes	28	Total Arsenic (as As)	mg/l	(DL=0.001) BDL	0.01 Max.	No relaxation	IS 3025(P-37)-	1988	Yes	
30 E.Coli Per 100ml Absent Shall not be detectable in any 100 ml of sample IS 1622-1981 Yes 31 Total Coliform Per 100ml Absent Shall not be detectable in any 100 ml of sample IS 1622-1981 Yes	29	Total Chromium (as ((r) mg/l	(DL=0.01) BDL	0.05 Max.	No relaxation	IS 3025(P-52)-2	2003	Yes	
31 Total Coliform Per 100ml Absent Shall not be detectable in any 100 IS 1622-1981 Yes ml of sample IS 1622-1981 Yes	30	E Coli	Per 100m	(DL=0.05)	Shall not be det	ectable in any 100	IS 1622-198	1	Yes	
mi of sample	31	Total Coliform	Per 100m	al Absent	ml of Shall not be det	sample ectable in any 100	IS 1622-198	1-	Yes	
BDL - Below Detection Limit Remarks: The above tested sample does not meet the requirement of IS: 10500:2012. (SR_ANALYST).	BDL - Below Remark	* Detection Limit, DL-Detection Limit s: The above tested sample	does not meet the require	ment of IS: 10500:2	ml of 012.	sample	Ashutos (SR, ANA	h Sri	vastava	

Vinay Dixit

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the prospect of the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. Note: 1 The NA

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				(TEST CERTIFIC	CATE)	Р	age 1 of 1	
	Issued To: M/s Hindustan Coll			llege of Science &	Report No.	AAL MIS-20	210327004	
			Technology		Date of Receiv	ving:	27/03/2021	
			Agra Delhi Highwa	y, NH-2	Date of Starti	ng:	27/03/2021	
			Falan, Dist. Mathur	a -201 122(UP)	Date of Comp	letion:	31/03/2021	
					Date of Repor	ting:	31/03/2021	
	Sample Do	escription:	One sample describ	ed as STP Sludge, was	Sample Quan	tity:	2 Kgs.	
			received.		Sample Packin	ng Condition:	Polythene Packing	
					Sample Collec	ted By:	AAL	_
				TEST RESULT (Protocol: APHA/AAS/CPCB Guidelin	E es)			
\cap	S. No.	Test parai	meters	INIVE	Unit		Results	
	1	pН			CA		7.66	
	2	Organic Sc	olids		%		68.5	
	3	Inorganic S	Solids		%		31.3	
	4	Cyanide (a	s CN)	1.	mg/kg	1	ND	
	5	Sulphide (a	as S)		mg/kg) (2.6	
	6	Reactivity			· ·] 3	No	n Reactive	
	7	Toxic Meta	als		1			
	(i)	Mercury (a	is Hg)		mg/kg	51	ND	
	(ii)	Lead (as P	b)		mg/kg	1	ND	
	(iiii)	Cadmium	(as Cd)		mg/kg	/	ND	
	(iv)	Chromium	(as Cr)		mg/kg		ND	
	(v)	Nickel (as	Ni)		mg/kg		ND	
0	(vi)	Copper (as	Cu)		mg/kg		ND	
		ND - Not Detected		**End of Report*	*			



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TEST CERTIFICATE

Issued To: M/s Hindustan College of Science &	- op o
Technology	Date
Agra Deini Hignway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date
(ului, Dist. Multilu 201 122(01)	Date
Sample Description: Soil Sample	Date

Report No.	AAL ENV	-20210327014
Date of Receiving:		27/03/2021
Date of Starting:		27/03/2021
Date of Completio	n:	31/03/2021
Date of Reporting		31/03/2021
Sample Qty.:		2 Kgs.
Sample Packing C	ondition:	Polythene Bag
Sample Collected	By:	AAL

Page 1 of 1

TEST RESULT

S	. No.	Test Parameters	Unit	Results	Test Method
	1	рН	A AM	7.86	IS 2720(P-26)-1987, Reaff-2007
	2	Conductivity	μS/cm	918	JIS 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/Textur	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
	(c)	Clay	% by mass	16.0	IS 2720(P-4)-1985, Reaff. 2001

End of Report



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Hindustan College of Science and Technology

Farah, Mathura

Environment Audit-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	· www	aalku	ndli com
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TEST CERTIFICATE)

Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL 1	ENV-20220317020
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	17/03/2022
	A PART 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
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL

TEST RESULT

Sampling Details

		a sectorial and a sector and a sector a				
	Type of M	Monitoring		1	: Ambient Air Quality Monit	toring
1	Monitoria	ng Procedure	A.	AIV		A AAL AL
	Location	of Sampling Point	10 18	ALI	: Near Main Gate	
	Sampling	Started on	150		: 11:10 AM (16/03/2022)	
	Sampling	Completed on	19		: 11:10 AM (17/03/2022)	
	Actual Ti	me of Sampling (Hrs)			: 24 Hrs.	
	Average i	flow Rate for particulate matter (m	³ /minute)	120	: 11	
	Total Vol	ume of air sampled for particulate	matter (m ³)	~	: 1584	
	S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
	1	Particulate Matter, PM 2.5	$\mu g/m^3$	51.4	60 0 0	CPCB Guideline/Gravimetric (AAL/SOP/ENV/002)
	2	Particulate Matter, PM 10	μg/m ³	87.2	100	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO ₂)	µg/m ³	10.8	80	IS-5182 (P-2)-2001
	4	Oxide of Nitrogen (as NO ₂)	µg/m ³	35.6	80 0	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg/m ³	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
2	6.	Ozone (as O ₃)	μg/m ³	20.0 S	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
	7	Ammonia (as NH ₃)	μg/m ³	<20.0	400	CPCB Guideline
	8	Lead (as Pb)	µg/m ³	<0.1	01	(Indo-Flichof Blue Method) IS-5182(P-22)-2004
	9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
	10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C ₆ H ₆)	µg/m ³	<0.1	05	NISOH 6015-2005
	12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method
			**	End of Repo	rt**	P. D.L
				-		

Page 1 of 1

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TEST CERTIFICATE

Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL 1	ENV-20220317021	
	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	17/03/2022	
	AAL AL	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	
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	

TEST RESULT

Samplin	L'ottano.				
Type of	Monitoring			: Ambient Air Quality Monit	toring
Monitori	ing Procedure	1	ALV	-: As per IS-5182, P-14	pr pat it
Location	of Sampling Point	N/N	JALI	Near STP Plant	Y NL AP
Sampling	g Started on	15		: 11:25 AM (16/03/2022)	
Sampling	g Completed on	19		: 11:25 AM (17/03/2022)	
Actual T	ime of Sampling (Hrs)	1/1		: 24 Hrs.	
Average	flow Rate for particulate matter (m	/minute)	1	: 1.15	
Total Vo	lume of air sampled for particulate	matter (m ³)	V	: 1656	
S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM 2.5	$\mu g/m^3$	45.5	60 0	CPCB Guideline/Gravimetric
2	Particulate Matter, PM 10	µg/m ³	69.8	100 -0	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	µg/m ³	9.5	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO ₂)	µg/m ³	32.6	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m ³	<0.5	02(8hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	µg/m ³	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
1	Ammonia (as NH ₃)	µg/m³	<20.0	400	CPCB Guideline
8	Lead (as Pb)	µg/m ³	<0.1	01	(Indo-Phenol Blue Method) IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C_6H_6)	µg/m ³	<0.1	05	NISOH 6015-2005
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	CPCB/GC Method
		**	End of Repo	ort**	



Page 1 of 1

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all all a	(TEST CERTIFICATE)	p. A.L. a.A.L.	Page 1 of 1
Insued Tax	AND A CHARTER AND A PAR	Report No. AAL	ENV-20220317022
Issued 10:	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving: Date of Starting:	17/03/2022
Sample-Description:	Ambient Noise	Date of Completion:	22/03/2022
Date of Monitoring: Sampling Location:	16/03/2022 to 17/03/2022 Near Main Gate	Date of Reporting: Sampling Method:	22/03/2022 By Noise Meter
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL

Results

S. No.

Test Parameter

Unit

	APL . N.	NA	As per CF Limits i	CB Guidelines) in dB(A) Leq.	AL AAL
1 Noise Level	1.4	An	Category of Area / Zone	Day Time	Night Time
Lmin	dB(A)	36.4		at at	APT- N
L10	dB(A)	65.2	10	Ar. AAI	ne-
L50	dB(A)	51.4	. Yo	spl. a	Phr P. P.
L90	dB(A)	47.2	3 · N	Pres	apt at
• Leq	dB(A)	58.6	- P.	AAL OAL	P. P.
Lmax	dB(A)	70.2		at - 1	AL SAL .
Las Day		50.5	A: Industrial Area	75	70
Leq-Day	dB(A)	39.5	B: Commercial Area	65	55
Las Night	ID ID	10.0	C: Residential Area	55	45
Leq-Might	aB(A)	49.2	D: Silence Zone	50	40
	and the set	**End o	f Report**		

Authorised Signatory

Requirement

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Pro Provincia de la compañía de	(TEST CERTIFICATE)	AAL AAL I	Page 1 of 1	
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL	ENV-20220317023	
	Agra Delhi Highway, NH-2	Date of Receiving:	17/03/2022	
	raran, Dist. Mainura -281 122(OP)	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 STP Plant	Sampling Method:	By Noise Meter	
Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	
S. No. Test Parameter 1 Noise Level	TEST RESULTS Unit Results	Requireme (as per CPCB Gu Limits in dB(A of Area / Zone D	nt idelines) .) Leq. Day Time Night Tim	ne
Imin	dB(A) 35.6	A Star Star		

Lmin	dB(A)	35.6	111	at it po	N. IL
L10	dB(A)	59.8	TO	par nat	
L50	dB(A)	45.2	S · Vol	AL- A	-A-
L90	dB(A)	40.7	· R	-AAU aiAl	
Leq	dB(A)	48.9	· >	p.p p.	P
Lmax	dB(A)	67.3	- 1	at the apr	Ne
Las Dau		40.0	A: Industrial Area	75	70 —
Leq-Day	dB(A)	49.8	B: Commercial Area	65	55
Las Niskt	JDCAS		C: Residential Area	55	45
Leq-Night	dB(A)	44.2	D: Silence Zone	50	40
	X.P.	**End of F	Report**	APT AN	
		VAIA	a'01		

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Website	: www.aal	kundli.com
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TEST CERTIFICATE

	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	AAL AAL	Date of Receiving:	17/03/2022	
Sample Description: Date of Monitoring: Sampling Method: Purpose of Monitoring:	D G Stack Monitoring 16/03/2022 IS:11255 (Part-1 to Part-7) Self Assessment	at white a	Date of Starting: Date of Completion: Date of Reporting: Sampling Done By:	17/03/2022 22/03/2022 22/03/2022 AAL	
	TEST RE	SULT	at pr pa	NAL P	1
Plant/Section		: DG Sect	tion AAL AL		
Stack Identification	C. Pro AAL	· Stack At	tached to DC	pat ni .	
Source of Emission	NAL	DG Set	lached to DO		
Capacity	X AN	· 250 KV	-DCNo1		
Type of Stack	4	: Metal	4-0 G110.1		
Diameter of Stack	8	: 12"	TO P		
Height of Stack from Ground L	evel	: 21m	101		
Height from Roof Level	XX	4	TT P		
Height at Which Sampling Port	A	: 12m	SLA		
Product Manufacturing		: College	4		
Type of Fuel Used		i HSD	101×		
Normal Operating Schedule		: As per re	quirement 2		-
Duration of Monitoring	151	: 30 min.	12/2		
Emission Control (if any)	and the second	: Nil	181		
Observations		12-1	E 8		
Ambient Temperature(°C)	at the	: 32	· V/ Salar		
Stack Temperature (°C)	ONE	: 185	AM AN		
Velocity (m/s)		: 10.9			
Flow Rate(Nm ³ /hr)		: 1027.5			
S. No. Test Parameter		Unit	Damilia T.	Pt a pt	

Particulate Matter (PM) 2 Sulphur Dioxide (as SO₂)

- 3 Oxide of Nitrogen (as NO_x)
- Carbon Monoxide (CO) 4
- Hydrocarbon (as HC)

Survey of the local division in which the local division in which the local division in	Statement and	32	1
No	25:	185	/ .
-	-	10.9	
	P.S.	1027.5	
	Uni	t	Resu
	g/kw-	-hr	0.1
	g/kw-	hr	0.2
	g/kw-	hr	2.1
	g/kw-	hr	1.04

g/kw-hr

*End of Report**

Limits **Test Methods** IS 11255(P-1)-1985 IS 11255(P-2)-1985 IS 11255(P-7)-2005 IS 13270-1992 By GC

0.3

9.2

3.5

1.3

Page 1 of 1



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TEST CERTIFICATE

Issued To:	M/s Hindustan College of Scier Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(U	nce & Technology P)	Report No. Date of Recei	AAL ENV	7-20220317025
Sample Description: Date of Monitoring: Sampling Method:	D G Stack Monitoring 16/03/2022 IS:11255 (Part-1 to Part-7)		Date of Starti Date of Comp	ng: bletion:	17/03/2022 22/03/2022
Purpose of Monitoring:	Self Assessment		Sampling Dor	ne By:	AAL
A A A A	TES	T RESULT	at . M	P.P.L	at pr pat
Plant/Section	P. S.	· DC S	antion of the		
Stack Identification	No Pro All	. DG S	Attached to DC		N
Source of Emission	NA	LY TOCS	Attached to DG		
Capacity	X ANT	·			
Type of Stack	4	· 250 R	VA - D G140.2		
Diameter of Stack	8	: 12"	Pol		
Height of Stack from Ground	d Level	: 21m	101		
Height from Roof Level	A RANGE		1 m	pr 1	
Height at Which Sampling P	Port 🔨	: 12m	15	. pl	
Product Manufacturing	ar in	: Colles	ze 4	1 pl	
Type of Fuel Used		: HSD	10	lat is	
Normal Operating Schedule	4	: As per	requirement	pr pr	pat in the
Duration of Monitoring	151	: 30 min	n. / – /	and the	
Emission Control (if any)	all 1 hall	: Nil	181		
Observations		A JL	1.51		
Ambient Temperature(°C)	AN YOU	: 32	YY/		
Stack Temperature (°C)	NED	00: 178	- P.		
Velocity (m/s)	Martin Providence	: 10.9	p.p.t. al		
Flow Rate(Nm ³ /hr)		: 941.8			
S. No. Test Parameter	An "A Charles and	Unit	Results	Limits	Test Methods
1 Particulate Matte	er (PM)	g/kw-hr	0.12	0.3	IS 11255(P-1)-1985
2 Sulphur Dioxide	(as SO ₂)	g/kw-hr	0.36	J. M	IS 11255(P-2)-1985
3 Oxide of Nitroge	en (as NO _x)	g/kw-hr	2.84	9.2	IS 11255(P-7)-2005
4 Carbon Monoxid	le (CO)	g/kw-hr	1.25	3.5	IS 13270-1992
5 Hydrocarbon (as	HC)	g/kw-hr	0.88	1.3	By GC

End of Report



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	Website . www.aaikullull.t	John		
	(TEST CERTIFICATE)	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	
	Falai, Dist. Maulura -281 122(UP)	Date of Starting:	17/03/2022	
		Date of Completion:	22/03/2022	
Sample Description:	Ine Sample described as STP Inlet Water, was received.	Date of Reporting:	22/03/2022	
		Sample Quantity:	1 Litre	
		Sample Packing Condition:	Plastic Bottle	
		Sample Collected By:	AAL	
	TEST RESULT	Net to a set		
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)

Srivastava

Authorised Signatory

IS 3025(P-17)-1984

IS 3025(P-39)-2021

IS 3025(P-44)-1993

IS 3025(P-58)-2006

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date of issue of report unless specified.

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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)

	(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 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	17/03/2022
		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
	sail par ait i por ait	Sample Packing Condition:	Plastic Bottle
AP LAL al.		Sample Collected By:	AAL
Print	TEST RESULT	wat ne pr pa	- A

AN AN AL	NA	V TIO	Rules, 1986 Sci General Standards fo	hedule-VI or Discharge into	Testing Method
A A A	ANA		Inland Surface Water	land for Irrigation	
pH Value	~	7.84	5.5 - 9.0	5.5 - 9.0	IS 3025(P-11)-1983
Total Suspended Solids	mg/l	26.0	100 Max.	200 Max.	IS 3025(P-17)-1984
Oil & Grease	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39)-2021
Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	21.0	30 Max.	100 Max.	IS 3025(P-44)-1993
Chemical Oxygen Demand (COD)	mg/l	112.0	250 Max.	A.	IS 3025(P-58)-2006
	pH Value Total Suspended Solids Oil & Grease Biochemical Oxygen Demand (BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)	pH Value Total Suspended Solids Oil & Grease Biochemical Oxygen Demand (BOD - 3 days at 27°C) Chemical Oxygen Demand (COD) mg/l	pH Value - 7.84 Total Suspended Solids mg/l 26.0 Oil & Grease mg/l 22.0 Biochemical Oxygen Demand mg/l 21.0 (BOD - 3 days at 27°C) Chemical Oxygen Demand (COD) mg/l 112.0	pH Value Total Suspended Solids Oil & Grease Biochemical Oxygen Demand (BOD - 3 days at 27°C) Chemical Oxygen Demand (COD) mg/l 112.0 COD mg/l 112.0 Comparison Co	pH Value-7.845.5 - 9.0Iand for IrrigationTotal Suspended Solidsmg/l26.0100 Max.200 Max.Oil & Greasemg/l22.010 Max.10 Max.Biochemical Oxygen Demandmg/l21.030 Max.100 Max.(BOD - 3 days at 27°C)mg/l112.0250 Max

**End of Report*



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AMALYTICAL LABOR	ARIHANT ANALYTICAL LABO AN ISO 9001:2015, ISO 14001:2015, ISO 45001:201 272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonep Ph. : 7082301442, 9250014551 Email : aal Website : www.aalkundli.co	DRATC L8 (OHSAS) pat-131028 kundli@gm om	CERTIFIED LABORATORY B (Haryana) mail.com	
AL .	(TEST CERTIFICATE)	P. P.	Page 1 of 1	
		Report No.	AAL WQT-20220317073	

Issued To:	M/s Hindustan College of Science & Technology	pr pr	
	Agra Delhi Highway, NH-2	Date of Receiving:	17/03/2022
No. I Pro	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	17/03/2022
P' N' al		Date of Completion:	22/03/2022
Sample Description:	One Sample described as Drinking Water (R O	Date of Reporting:	22/03/2022
	Water) was received.	Sample Quantity:	1 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Requirements As per IS: 10500-2012		Testing Method	Conformity
		MAX P	NALT	Acceptable Limit	Permissible Limit	AL AAL AAL	
1	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	-	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 ₃)	mg/l	44.0	200 Max	600 Max.	IS 3025(P-21)-2009	Yes
7	Iron (as Fe)	1mg/1	<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		0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-26)-2021	P p.
10	Total Dissolved Solids	mg/l	157.0	500 Max.	2000 Max.	IS 3025(P-16)-1984	Yes
11	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
12	Total Coliform	Per 100ml	Absent	Shall not be 100ml	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

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AAL WQT-20220317074

Issued To:

Sample Description:

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

One sample described as Bore well Water, was received.

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

Report No.

			TEST RES	ULTS	al	pr pr	
S. No.	Test parameters	Unit	Results	Requirem IS: 105 Acceptable	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.	1.0 Min.	IS 3025(P-26)-2021	al -
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 ₃)	mg/l	(DL=0.05) 14.4	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
18	Phenolic Compound (as C6H5OH)	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 ₄)	mg/l	(DL=0.01) 452.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No
21	Total Alkalinity (as CaCO ₃)	mg/l	536.0	200 Max.	600 Max.	IS 3025(P-23)-1986	Yes
22	Total Hardness (as CaCO ₃)	mg/l	1510.0	200 Max.	600 Max.	IS 3025(P-21)-2009	No
23	Zinc (as Zn)	mg/l	0.34	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
24	Cadmium (as Cd)	mg/l	BDL	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
20	· 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	Shall not be det	ectable in any 100	IS 1622-1981	Yes
31	Total Coliform	Per 100ml	Absent	ml of Shall not be det	sample ectable in any 100	IS 162-1981	Srivactava
				mlot	sample	A MILLING	A REVENSION C

BDL = Below I

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

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L AL-	(TEST CERTIFICA	ATE)	Page 1 of 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the part wat the part	Report No. AAL MIS-20	220317016
Issued To: M/s Hindustan Co Agra Delhi Highwa	M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2	Date of Receiving:	17/03/2022
al and all	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.
· •	received.	Sample Packing Condition:	Polythene Packin
		Sample Collected By:	AAL

pH 7.78 Organic Solids 73.4 2 % 3 **Inorganic Solids** % 26.6 Cyanide (as CN) mg/kg ND 4 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**

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an all	the star and	(TEST CERTIFIC/	ATE)	L. L	Page 1 of 1	2
Issued To:	M/s Hindustan C	college of Science & Technology	Report No.	AAL ENV	/-20220317026	
Agra Delhi Highway, M Farah, Dist. Mathura -2		vay, NH-2 ura -281 122(UP)	Date of Receiving: Date of Starting:		17/03/2022 17/03/2022	
Nº pl			Date of Completio	n:	22/03/2022	
Sample De	escription: Soil Sample		Date of Reporting		22/03/2022	
			Sample Qty.:		2 Kgs.	
			Sample Packing C	ondition:	Polythene Bag	
i la Pri	all and a part of the	and and salt	Sample Collected	By:	AAL	2
Nº 1944		TEST RESULT				
S. No.	Test Parameters	Unit	Results	Т	est Method	
1	pH	NALYTIC	7.78	IS 2720(P-	26)-1987, Reaff-2007	
2	Conductivity	μS/cm	826	IS 2720(P-	21)-1977, Reaff-2006	
3	Sodium as Na	mg/kg	385.2	AAL/	SOP/ENV/010-D	
4	Potassium as K	mg/kg	201.4	AAL/	SOP/ENV/010-D	
5	Total Kjeldahl Nitrogen	% by mass	0.079	AAL/	SOP/ENV/010-C	
6	Phosphorus	mg/kg	72.4	AAL/	SOP/ENV/010-G	
7	Organic matter	% by mass	1.10	IS 2720(P-	-22)-1972, Reaff:2005	
8	Calcium (as Ca)	% by mass	0.51	AAL/	SOP/ENV/010-B	
9	Magnesium (as Mg)	mg/kg	335.4	AAL/	SOP/ENV/010-B	

% by mass

% by mass

% by mass

**End of Report*

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



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10

(a)

(b)

(c)

Sand

Silt

Clay

Soil Gran Size Analysis/Texture (% by mass)

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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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Vebsite	:	www.aa	Ikunc		li.	CO	n	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		
	and the second s	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 ENV-20230421049			

TEST RESULT

Sampling Details:

	Type of M	Monitoring		: Ambi	ient Air Quality Monitorin	2
١	Sampling	Method		VT: As pe	r IS-5182 (P-14)-2000	SPACE N
	Location	of Sampling Point		: Near	Main Gate	
	Sampling	Started on		: 10:50	AM (20/04/2023)	
	Sampling	Completed on		: 10:50	AM (21/04/2023)	
	Actual Ti	me of Sampling (Hrs)		: 24:00	Hrs.	
	Average f	low Rate for particulate matter (m ³	/minute)	: 1.15		
	Total Vol	ume of air sampled for particulate r	matter (m ³)	: 1656		
	S. No.	Test Parameters	Unit	Results	Limits NAAQS (Max.)	Test Methods
	1	Particulate Matter, PM 2.5	μg/m ³	51.3	60	IS-5182(P-24)-2019
	2	Particulate Matter, PM 10	$\mu g/m^3$. 92.5	100	IS-5182(P-23)-2006
	3	Sulphur Dioxide (as SO ₂)	μg/m³	11.6	80	IS-5182 (P-2)-2001
	4	Nitrogen Dioxide (as NO ₂)	μg/m ³	29.2	80	IS-5182(P-6)-2006
	5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02 (8hr)	IS-5182(P-10)-1999
	6	Ozone (as O ₃)	µg/m ³	S <20.0	100 (8hr)	IS-5182(P-9)-1974
	7	Ammonia (as NH ₃)	μg/m ³	<20.0	400	IS-5182(P-25)-2018
	8	Lead (as Pb)	μg/m ³	<0.1	01	IS-5182(P-22)-2004
	9	Nickel (as Ni)	ng/ m ³	<1.0	20	AAL/SOP/008
	10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
	11	Benzene (as C ₆ H ₆)	μg/m ³	<0.1	05	IS-5182(P-11)-2006
	12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	IS-5182(P-12)-2004

End of Report

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	
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 EN	V-20230421050	

TEST RESULT

Sampl	ing Details:			P	D. T. D.
Туре с	of Monitoring		: Ambier	nt Air Quality Monitoring	g
Sampl	ing Method		VT: As per l	IS-5182 (P-14)-2000	
Locati	on of Sampling Point		: Near S'	TP Plant	
Sampli	ing Started on		: 11:10 A	M (20/04/2023)	
Sampli	ing Completed on		: 11:10 A	M (21/04/2023)	
Actual	Time of Sampling (Hrs)		: 24:00 H	Irs. 🚫	
Averag	ge flow Rate for particulate matter (m ³ /	minute)	: 1.25		
Total V	olume of air sampled for particulate m	natter (m ³)	: 1800		
S. No	. Test Parameters	Unit	Results	Limits NAAQS (Max.)	Test Methods
1	Particulate Matter, PM 2.5	μg/m³	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 ₂)	μg/m ³	10.3	80	IS-5182 (P-2)-2001
4	Nitrogen Dioxide (as NO ₂)	μg/m ³	29.6	80 .	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg /m ³	<0.5	02 (8hr)	IS-5182(P-10)-1999
6	Ozone (as O ₃)	µg/m ³	S <20.0	100 (8hr)	IS-5182(P-9)-1974
7	Ammonia (as NH ₃)	μg/m ³	<20.0	400	IS-5182(P-25)-2018
8	Lead (as Pb)	µg/m ³	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/ m ³	<1.0	20	AAL/SOP/008
10	Arsenic (as As)	ng/m ³	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	μg/m ³	<0.1	05	IS-5182(P-11)-2006
12	Banzo a-pyrene (BaP)	ng/m ³	<1.0	01	IS-5182(P-12)-2004

*End of Report**



Page 1 of 1

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Page 1 of 1
JV-20230421051
21/04/2023
21/04/2023
26/04/2023
26/04/2023
By Noise Meter
AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Req (as per CP Limits i	uirement CB Guidelines) n dB(A) Leq.	
1	Noise Level		AMA	Category of Area / Zone	Day Time	Night Time
	Lmin	dB(A)	35.9	Carlos al	N	P.P Pi
	L10	dB(A)	64.8	10	P Dar	
	L50	dB(A)	57.3) Nor	J. Ma	by by
	L90	dB(A)	49.2	5 . R	· · · ·	and the second
	Leq	dB(A)	60.3	- P.	Ser and	. P.
	Lmax	dB(A)	72.5		J. 1. 18	5.P-1
	Leg Day		(0.8	A: Industrial Area	75	70
	Leq-Day	dB(A)	60.8	B: Commercial Area	65	55
	Lea-Night	dD(A)	40.5	C: Residential Area	55	45
	Leq-Mgnt	dB(A)	49.5	D: Silence Zone	50	40
12 al			**End of	Report**		

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TEST CERTIFICATE

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	
and the second	and the provide the second	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 ENV-20230421052		

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Require the second seco	uirement CR Cuidelinee)		
and the second second				Y TIO Limits in dB(A) Leq.			
1	Noise Level			Category of Area / Zone	Day Time	Night Time	
	Lmin	dB(A)	35.1	18 N. 3 1		plan in	
	L10	dB(A)	59.3	Pol	p.m. ph		
	L50	dB(A)	48.2	S Vol		1.1.1	
	L90	dB(A)	43.8	¥	in white		
	Leq	dB(A)	49.7	· >	Pri al	P	
	Lmax	dB(A)	62.6		U ¹ . 19 ³		
	Las Davi	ID(A)		A: Industrial Area	75	70	
	Leq-Day	dB(A)	50.3	B: Commercial Area	65	55	
	Lag Night	1D(A)		C: Residential Area	55	45	
	Leq-Night	dB(A)	41.8	D: Silence Zone	50	40	
			End of	Report			
100				S.OT.			

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date of issue of report unless specified.


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TEST CERTIFICATE

Purpose of Monitoring:	Self Assessment	Sampling Done By:	AAL	
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	
L PAL ALL AL	Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)	Date of Receiving:	21/04/2023	
ssued To:	M/s Hindustan College of Science & Technology	Report No. AAL I	ENV-20230421053	

TEST RESULT

Plant/Secti	on	: DG 5	Section	Sec. Mar	N 18					
Stack Iden	tification	: Stack	Attached to DG							
Source of I	Emission	NALY I: DGS	Set							
Capacity		: 250 1	KVA – D G No.1							
Type of St	ack S	: Meta	NO N							
Diameter of	of Stack	: 12"								
Height of S	Stack from Ground Level	: 21m								
Height from	n Roof Level									
Height at V	Vhich Sampling Port	: 12m								
Product M	anufacturing	: Colle	ege							
Type of Fu	el Used	: HSD								
Normal Op	erating Schedule	: As pe	: As per requirement							
Duration o	f Monitoring	: 30 m	: 30 min.							
Emission C	Control (if any)	: Nil	101		Ser and a second					
Observatio	ons			i phe						
Ambient T	emperature(°C)	: 34								
Stack Temp	perature (°C)	23NOS :0172								
Velocity (n	n/s)	: 10.8	por in		S. P. S.					
Flow Rate(Nm ³ /hr)	: 1029.	3							
S. No.	Test Parameter	Unit	Results	Limits	Test Methods					
1	Particulate Matter (PM)	g/kw-hr	0.11	0.3	IS 11255(P-1)-1985					
2	Sulphur Dioxide (as SO ₂)	g/kw-hr	0.21	P	IS 11255(P-2)-1985					
3	Oxide of Nitrogen (as NO _x)	g/kw-hr	2.35	9.2	IS 11255(P-7)-2005					
4	Carbon Monoxide (CO)	g/kw-hr	0.65	3.5	IS 13270-1992					
5	Hydrocarbon (as HC)	g/kw-hr	0.52	1.3	By GC					
		End of Report								



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vebsite :	www.a	alkund	II.cor
TEST	CERT	IFICAT	E

	(IESI (CERTIFICATE			Page 1	l of 1
Issued To:	M/s Hindustan College of Scien Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(U	nce & Technology JP)	Report No. Date of Recei	AAL ENV	'-20230421054 21/04/2023	pi-
Sample Description: Date of Monitoring: Sampling Method: Purpose of Monitoring:	D G Stack Monitoring 20/04/2023 IS:11255 (Part-1 to Part-7) Self Assessment	AAL AAL AP	Date of Start Date of Com Date of Repo Sampling Do	ing: 2 pletion: 2 rting: 2 ne By: 2	21/04/2023 26/04/2023 26/04/2023 AAL	ha!
	TES	T RESULT				
Plant/Section		: DG See	ction			
Stack Identification	and the first the second	: Stack A	Attached to DG	· P.	Ser .	
Source of Emission	NA	: DG Set				
Capacity		: 250 KV	A - D G No.2			
Type of Stack		: Metal	SON P			
Diameter of Stack	1 X 1	: 12"				
Height of Stack from Ground	l Level	: 21m				
Height from Roof Level		N 1 -				
Height at Which Sampling Po	ort	: 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		1				
Ambient Temperature(°C)	No. XV.	: 34	Y/			
Stack Temperature (°C)	NED	00:168				
Velocity (m/s)		: 10.8				
Flow Rate(Nm3/hr)		: 995.3				
S. No. Test Parameter		Unit	Results	Limits	Test Mo	ethods
1 Particulate Matter	r (PM)	g/kw-hr	0.13	0.3	IS 11255(P	2-1)-198
2 Sulphur Dioxide	(as SO ₂)	g/kw-hr	0.27	2	IS 11255(P	-2)-198
3 Oxide of Nitroger	n (as NO _x)	g/kw-hr	2.42	9.2	IS 11255(P	-7)-200
4 Carbon Monoxide	e (CO)	g/kw-hr	1.66	3.5	IS 13270)-1992

Hydrocarbon (as HC)

End of Report

g/kw-hr

0.75

1.3



By GC

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3405		Website	: www.aalkundli.co	m	
AN AN	S. S.	(TES	ST CERTIFICATE)	p. M. p.	Page 1 of 1
Issued To	o: M/s H	industan College of Science &	Technology	Report No. AAL WQT-	20230421008
	Agra I	Delhi Highway, NH-2		Date of Receiving:	21/04/2023
	Farah,	Dist. Mathura -281 122(UP)	No. 1	Date of Starting:	21/04/2023
				Date of Completion:	26/04/2023
Sample I	Description: One Sa	ample described as STP Inlet W	ater, was received.	Date of Reporting:	26/04/2023
				Sample Quantity:	1 Litre
				Sample Packing Condition:	Plastic Bottle
	Sec. 1.	p. M. pl	Jan May	Sample Collected By:	AAL
		AL S. ARAMAN	TEST RESULT	Alt at in the	
S. No.	Test parameters		Unit	Results	Testing Method
\bigcap_{I}	pН		ALYTICA	6.72	IS 3025(P-11)-1983
2	Total Suspended So	olids	mg/l	152.0	IS 3025(P-17)-1984
3 -	Oil & Grease	8	mg/l	6.3	IS 3025(P-39)-2021
4	Biochemical Oxyge (BOD - 3 days at 27°C)	en Demand	mg/l	112.0	IS 3025(P-44)-1993
5	Chemical Oxygen I	Demand (COD)	mg/l	416.0	IS 3025(P-58)-2006
			*End of Report**		
	Nº P				
				TP SP	N. P.

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SONE	UL	1	Nebsite : w	ww.aalkund	li.com			
2 m 1 m		phi phi	(TEST C	ERTIFICAT	E)	ale in the	Page 1 of	f 1
Issued To:		M/s Hindustan College of S Agra Delhi Highway, NH-2 Farah Dist Mathura -281 12	Science & Techr	nology	Report No Date of Re	. AAL WQT-:	20230421009	
		r aran, 1915t. Mathara -201 12	22(01)		Date of Sta	arting:	21/04/2023	
2	st. s	May May 2			Date of Co	mpletion:	26/04/2023	
Sample De	escription:	One Sample described as ST	P Outlet Water	, was received.	Date of Re	porting:	26/04/2023	
part part of the plant plat					Sample Qu	antity:	1 Litre	al-
					Sample Pa	cking Condition:	Plastic Bottle	
Pro al	×	A AA A	200	No. My	Sample Co	llected By:	AAL	
		ADI WAL AL AL	TEST	RESULT	AL AAL D		1. M	P.
S. No.	Test para	meters	Unit Results		Limits as per Enviro Rules,1986 S General Standards	nment (Protection) chedule-VI for Discharge into	Testing Method	
					Inland Surface Water	land for Irrigation		
1	pH Value			7.62	5.5 - 9.0	5.5 - 9.0	IS 3025(P-1)	1)-1983
2	Total Susp	bended Solids	mg/l	20.0	100 Max.	200 Max.	IS 3025(P-17	7)-1984
. 3	Oil & Gre	ase	mg/l	<2.0	10 Max.	10 Max.	IS 3025(P-39	9)-2021
4	Biochemic (BOD - 3 day	cal Oxygen Demand	mg/l	17.0	30 Max. 子	100 Max.	IS 3025(P-44	4)-1993
5	Chemical	Oxygen Demand (COD)	mg/l	82.0	250 Max.	1	IS 3025(P-58	3)-2006
			<u></u>					

End of Report

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1.63	14. A. A.		TEST CER	TIFICATE	All all	- P	Page 1 of	f1
Issued T	To: M/s Hindu	stan College of Sc	iance & Techno	logy	Report No.	AAL WQT-2	2023042101	0
155404	Agra Delhi	Highway, NH-2	ience & recino	logy	Date of Receiving	nø:	21/04/202	3
	Farah, Dist.	. Mathura -281 122	(UP)		Date of Starting		21/04/202	3
			Par N		Date of Comple	tion:	26/04/202	3
Sample	Description: One Sample	e described as Drin	king Water (R	O Water)	Date of Reporti	ng:	26/04/202	3
PM La	was receive	ed.	Part A		Sample Quantit	v:	1 Litre	
					Sample Packing	Condition:	Plastic Bo	ttle
No.	An All				Sample Collecte	ed By:	AAL	
	AM AN' WH	N. P.P.	TEST RE	SULT	p. M p.L	100	NAL .	2
S. No.	Test parameters	Unit	Results	Requirer IS: 10	ments As per 0500-2012	Testing	Method	Conformi
			ANALY	Acceptable Limit	Permissible Limit			1
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P	-4)-2021	Yes
2	Odour ·	13/-	Agreeable	Agreeable	Agreeable	IS 3025(P	-5)-2018	Yes
3	Taste	¥ .	Agreeable	Agreeable	Agreeable	IS 3025(P	-7)-2017	Yes
4	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-	-10)-1984	Yes
5	Ph Value		7.11	6.5-8.5	No relaxation	IS 3025(P-	11)-1983	Yes
6	Total Hardness (as CaCO	3) mg/l	42.0	200 Max	600 Max.	IS 3025(P-	21)-2009	Yes
7	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-	53)-2003	Yes
8	Chlorides (as Cl)	mg/l	39.0	250 Max.	1000 Max.	IS 3025(P-	32)-1988	Yes
9	Residual free chlorine	mg/l		0.2 Min. (when Chlorinated)	1.0 Min. (when Chlorinated)	IS 3025(P-	26)-2021	- N
10	Total Dissolved Solids	mg/l	131.0	500 Max.	2000 Max.	IS 3025(P-	16)-1984	Yes
11	Silica (as SiO ₂)	mg/l	ND (DL=0.1)	all'	A A J	IS 3025(P-	35)-1988	
12	Fluoride (as F)	mg/l	<0.1	1.0 Max.	1.5 Max.	IS 3025(P-	60)-1984	Yes
13	Total Coliform	Per 100ml	Absent	Shall not be d 100ml d	letectable in any of sample.	IS 15185	5-2016	Yes

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

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	192		and a state	1	(TEST CERT	IFICATE)	Plan . Br	Pa	ige 1 of 1	E and a
I	ssued	To: M/s	Hindustan Col	lege of s	Science & Technol	097	Report No.	AAL WQT-2	202304210	11
		Agr	a Delhi Highway	, NH-2	seconde de l'éconitor	653	Date of Receiv	ing:	21/04/20	23
		Fara	ah, Dist. Mathura	a -281 1	22(UP)		Date of Startin	g:	21/04/20	23
	all a second and all						Date of Compl	etion:	26/04/20	23
S	ample	Description: One	e sample describe	ed as Bo	re well Water, was	received.	Date of Reporting: 26/04/2023			23
						· · · · · · · · ·	Sample Quanti	ity:	2 Litre	
			S. M. S.				Sample Packin	g Condition:	Plastic B	ottle .
	- 6.3					- p. P.Y	Sample Collect	ed By:	AAL	<u>p_0</u>
					TEST RESI	JLTS				
S	. No.	Test parameters		Unit	Results	Requirem IS: 105	ients As per 500-2012	Testing M	lethod	Conformity
			P			Acceptable	Permissible	Ser al	*	
	1	Colour		Hazen	. 10	5 Max.	15 Max.	IS 3025(P-4	4)-2021	Yes
	2	Odour			Agreeable	Agreeable	Agreeable	IS 3025(P-:	5)-2018	Yes
	3	pH Value		1.	7.55	6.5-8.5	No relaxation	IS 3025(P-1	1)-1983	Yes
	4	Turbidity		NTU	8.0	1 Max.	5 Max.	IS 3025(P-1	0)-1984	No
	5	Total Dissolved Soli	ids	mg/l	5640.0	500 Max.	2000 Max.	IS 3025(P-1	6)1984	No
	6	Aluminium (as Al)		mg/l	ND(DL=0.03)	0.03 Max.	0.2 Max.	IS 3025(P-5	5)-2003	Yes
	7	Anionic Detergent (a	as MBAS)	mg/l	ND(DL=0.2)	0.2 Max.	1.0 Max.	APHA 55	40 C	Ves
	8	Boron (as B)		mg/l	ND(DI =0.5)	0.5 Max	0.5 Max	IS 3025(P.5	7) 2005	Ves

	5	pri value	111	1.55	0.3-8.3	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	Î
	13	Residual free chlorine	mg/l	Nil	0.2 Min.	1.0 Min.	IS 3025(P-26)-2021	-	
	14	Iron (as Fe)	mg/l	0.45	1.0 Max.	No relaxation	IS 3025(P-53)-2003	Yes	
	15	Magnesium (as Mg)	mg/l	430.0	30 Max.	100 Max.	IS 3025(P-46)-1994	No	
	16	Manganese (as Mn)	mg/l	0.18	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes	
	17	Nitrate (as NO ₃)	mg/l	27.6	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes	
	18	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	ND(DL=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes	
Ś	19	Selenium(as Se)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Yes	
	20	Sulphate (as SO ₄)	mg/l	638.0	200 Max.	400 Max.	IS 3025(P-24)-1986	No	
	21	Total Alkalinity (as CaCO ₃)	mg/l	716.0	200 Max.	600 Max.	IS 3025(P-23)-1986	No	
	22	Total Hardness (as CaCO ₃)	mg/l	2817.0	200 Max.	600 Max.	IS 3025(P-21)-2009	No	
	23	Zinc (as Zn)	mg/l	0.39	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes	
	24	Cadmium (as Cd)	mg/l	ND(DL=0.002)	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Yes	
	25	Cyanide (as CN)	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Yes	
	26	Lead(as Pb)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Yes	
	27	Mercury (as Hg)	mg/l	ND(DL=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Yes	
	28	Total Arsenic (as As)	mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Yes	
	29	Total Chromium (as Cr)	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-52)-2003	Yes	
	30	Silica (as SiO ₂)	mg/l	0.45	. 200		IS 3025(P-35)-1988	-	
	31	E.Coli	Per 100ml	Absent	Shall not be dete	ectable in any 100 sample	IS 15185-2016	Yes	
	32	Total Coliform	Per 100ml	Absent	Shall not be dete ml of	ectable in any 100 sample	IS 15185-2016	Yes	

(Microbiologist

End of Report

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Gen. Manager (Q&T) Authorised Signatory



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

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				T	EST CER	TIFICATE)		Page 1 of	1
	Issued	Го: I	M/s Hindustan Agra Delhi High Farah, Dist. Math	College of Scien way, NH-2 nura -281 122(U	nce & Technolo IP)	gy	Report No. Date of Receivi Date of Startin	AAL WQT-20230421 ng: 21/04/2 g: 21/04/2	1012 2023 2023
	Sample	Description:	Bath Water (RC	9-2)			Date of Comple Date of Report Sample Quanti	etion: 26/04/2 ing: 26/04/2 ty: 15 Litr	2023 2023
	1	Y L P	p. M.		par ph	Y all	Sample Packin Sample Submit	g Condition: Plastic ted By: Custom	Bottle
					TEST RE	SULTS	plat - al	Pri pri pri	24
	S. No.	Test parameter	s	Unit	Results	Requirer	nents As per	Testing Method	Conformity
						IS: 10 Acceptable Limit	500-2012 Permissible	i toning interiou	Contorning
	1	Colour		Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021	Yes
٦	2	Odour			Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018	Yes
	3	pH Value		N/S D	7.29	6.5-8.5	No relaxation	IS 3025(P-11)-1983	Yes
	4	Turbidity		NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-1984	Yes
	5	Total Dissolved	Solids	mg/l	398.0	500 Max.	2000 Max.	IS 3025(P-16)1984	Yes
	6	Aluminium (as A	AI) .	mg/l	ND(D==0.03)	0.03 Max.	0.2 Max.	IS 3025(P-55)-2003	Yes
	7	Anionic Deterger	nt (as MBAS)	mg/l	ND(DL=0.2)	0.2 Max.	1.0 Max.	APHA 5540 C	Yes
	8	Boron (as B)	0	mg/l	ND(DL=0.3)	0.5 Max.	0.5 Max.	IS 3025(P-57)-2005	Yes
	9	Calcium (as Ca)		mg/l	29.0	75 Max.	200 Max.	IS 3025(P-40)-1991	Yes
	10	Chlorides (as Cl)		mg/l	180.0	250 Max.	1000 Max.	IS 3025(P-32)-1988	Yes
	11	Copper (as Cu)		mg/l	ND(DL=0.05)	0.05 Max.	1.5 Max.	IS 3025(P-42)-1992	Yes
	12	Fluoride (as F)		mg/l	0.36	1 Max.	1.5 Max.	IS 3025(P-60)-1984	Yes
	13	Residual free chl	orine	mg/l	Nil	0.2 Min.	1.0 Min.	IS 3025(P-26)-2021	2
	14	Iron (as Fe)		mg/l	0.16	(when Chlorinated) 1.0 Max.	(when Chlorinated) No relaxation	IS 3025(P-53)-2003	Yes
	15	Magnesium (as N	Ag)	> mg/l	15.0	30 Max.	100 Max.	IS 3025(P-46)-1994	Yes
	16	Manganese (as N	In)	mg/l	ND(DL=0.05)	0.1 Max.	0.3 Max.	IS 3025(P-59)-2006	Yes
	17	Nitrate (as NO ₃)		mg/l	4.4	45 Max.	No relaxation	IS 3025(P-34)-1988	Yes
	18	Phenolic Compou	und (as C6H3OH)	mg/l	ND(DI =0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43)-1992	Yes
	19	Selenium(as Se)		mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003	Ves
2	20	Sulphate (as SO4))	mg/l	66.0	200 Max.	400 Max.	IS 3025(P-24)-1986	Ves
	21	Total Alkalinity	(as CaCO ₃)	mg/l	112.0	200 Max.	600 Max.	IS 3025(P-23)-1986	Ves
	22	Total Hardness (a	as CaCO ₃)	mg/l	128.0	200 Max.	600 Max.	IS 3025(P-21)-2009	Ves
	23	Zinc (as Zn)		mg/l	ND(DL=0.05)	5 Max.	15 Max.	IS 3025(P-49)-1994	Yes
	24	Cadmium (as Cd))	mg/l	ND(DL=0.002)	0.003 Max.	No relaxation	IS 3025(P-41)-1992	Ves
	25	Cyanide (as CN)	30 S	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-27)-1986	Ves
	26	Lead(as Pb)		mg/l	ND(DL=0.01)	0.01 Max.	No relaxation	IS 3025(P-47)-1994	Ves
	27	Mercury (as Hg)		mg/l	ND(DL=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1992	Ves
	28	Total Arsenic (as	As)	mg/l	ND(DL-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-1988	Ves
	29	Total Chromium	(as Cr)	mg/l	ND(DL=0.05)	0.05 Max.	No relaxation	IS 3025(P-52)-2003	Vec
	30	Silica (as SiO ₂)		mg/l	0.12	- Provin	. 634	IS 3025(P-35)-1988	105
	31	E.Coli		Per 100ml	Absent	Shall not be dete ml of	ectable in any 100 sample	IS 15185-2016	Yes
	32	Total Coliform	and a state	Per 100ml	Absent	Shall not be dete ml of	ectable in any 100 sample	IS 15185-2016	Yes
		ND = Not Detected, DL=Detec	ction Limit	14	**End of Ro	eport**	al day	Dr. D. R. Gen. Hona	BRARMA

Vinay Dixit (Microbiologist)

Authorised Signatory

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	Trobolito - Infiliadina indi	o o i i i		
Mark Mark	(TEST CERTIFICATE		Page 1 of 1	
Issued To:	M/s Hindustan College of Science & Technology	Report No. AAL MIS-2	20230421008	
	Agra Delhi Highway, NH-2	Date of Receiving:	21/04/2023	
	Farah, Dist. Mathura -281 122(UP)	Date of Starting:	21/04/2023	
		Date of Completion:	26/04/2023	
		Date of Reporting:	26/04/2023	
Sample Description:	One sample described as STP Sludge, was received.	Sample Quantity:	2 Kgs.	
		Sample Packing Condition:	Polythene Packing	
100 March 100	the star of the star	Sample Collected By:	AAL	
				-

(Protocol: APHA/AAS/CPCB Guidelines)

	S. No.	Test parameters	Unit	Results
2	1	pH	NALTICA	7.93
	2	Organic Solids	%	74.5
	3	Inorganic Solids	% 7	29.3
	4	Cyanide (as CN)	mg/kg	ND
	5	Sulphide (as S)	mg/kg	4.4
	6	Reactivity		Non Reactive
	7	Toxic Metals		Sec. 1
	(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
١	(vi)	Copper (as Cu)	AJNOS Omg/kg	ND
		ND = Not Detected	**End of Report**	

Dr

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			Report No. AAL ENV-20230421055			
Issued To:M/s Hindustan College of Science & Technology Agra Delhi Highway, NH-2 Farah, Dist. Mathura -281 122(UP)Sample Description:Soil Sample			Date of Receiving: Date of Starting: Date of Completion: Date of Reporting: Sample Qty.: Sample Packing Condition:		21/04/2023 21/04/2023 26/04/2023 26/04/2023 2 Kgs. Polythene Bag	
		and the part was	Sample Collected By:		AAL	
		TEST RESULT				
S. No.	Test Parameters	Unit	Results		Test Method	
1	pH	NALYTIC	7.93	IS 2720()	IS 2720(P-26)-1987, Reaff-2007	
2	Conductivity	μS/cm	872	IS 2720(1	IS 2720(P-21)-1977, Reaff-2006	
3	Sodium as Na	mg/kg	368.4	AAI	AAL/SOP/ENV/010-D	
4	Potassium as K	mg/kg	237.3	AAI	AAL/SOP/ENV/010-D	
5	Total Kjeldahl Nitrogen	% by mass	0.061	AAI	AAL/SOP/ENV/010-C	
6	Phosphorus	mg/kg	71.2	AAI	AAL/SOP/ENV/010-G	
7	Organic matter	% by mass	1.12	IS 2720()	IS 2720(P-22)-1972, Reaff:2005	
8	Calcium (as Ca)	% by mass	0.59	AAI	AAL/SOP/ENV/010-B	
9	Magnesium (as Mg)	mg/kg	320.5	AAI	AAL/SOP/ENV/010-B	
10	Soil Gran Size Analysis/Texture (%	by mass)				
(a)	Sand	% by mass	68.0	IS 2720(IS 2720(P-4)-1985, Reaff. 2001	
(b)	Silt	% by mass	10.0	IS 2720(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. M

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in the field of

TESTING

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TC-5826

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01/06/2022

Valid Until:

31/05/2024

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

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N. Venkateswaran **Chief Executive Officer**



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in the field of

TESTING

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TC-5826 01/06/2019

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*The validity is extended for one year up to 31.05.2022

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N. Venkateswaran Chief Executive Officer



National Accreditation Board for **Testing and Calibration Laboratories** (A Constituent Board of Quality Council of India)



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Anil Relia Chief Executive Officer

N. Venkateswaran **Program Director**