

KSPCB/FORM-V/2019-20/04

25th August, 2020

The Regional Officer,
KSPCB, Bommanahalli,
Nisarga Bhavan, 2nd Floor,
Thimmaiah Road, 7th 'D' Main,
Shivanagar, Opp. Pushpanjali Theatre,
Bengaluru – 560010.

Dear Sir/Madam,

Subject: Submission of Environmental Statement (Form-V) for IIPM Building, Bangalore

With reference to above subject, we hereby submitting the Environmental Statement (Form-V) for the FY 2019-20 for our Infosys IIPM building, Sy. No. 40(P) & 41(P) at Electronic City Phase-II, Bangalore. Enclosed the copies of the same for your reference.

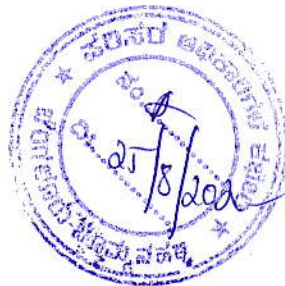
1. Form-V for IIPM building, Bangalore
2. Copy of Stack monitoring report
3. Copy of Ambient air quality analysis report
4. Copy of Treated sewage analysis report

Yours Sincerely,

For INFOSYS LIMITED


VIKRANT KUDIGI

REGIONAL HEAD – FACILITIES



Form - V

Environmental Statement

April 2019 – March 2020

ANNEXURE

ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March

PART-A

<i>i. Name and address of the owner: occupier of the industry</i>	M/s Infosys Limited IIPM - Sy. No. 40(P), & 41(P), Electronic City, Phase II, Konappana Agrahara, Begur Hobli, Bangalore – 560100
<i>Operation or process.</i>	Software Development
<i>ii. Industry category Primary- (STC Code) Secondary- (STC Code)</i>	Red Category
<i>iii. Production category. Units.</i>	Software Development
<i>iv. Year of establishment</i>	2018
<i>v. Date of the last environmental statement submitted.</i>	27.09.2019

PART-B

Water and Raw Material Consumption:

i. Water consumption in m³/d

Process: NA

Cooling: NA

Domestic: Approximately. 34 m³/day

Enclosures:

- 1) Copy of test report for Treated sewage
- 2) Copy of test report for D.G set emissions
- 3) Copy of test report for Ambient air & noise quality

Name of Products	Process water consumption per unit of products output	
	During the previous financial year	During the current financial year

ii. Raw material consumption

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed Standards with reasons.
(a) Water	As per Test Reports		
(b) Air	As per Test Reports		
(c) Sludge	Not applicable	0.04 kgs/ltr	No Variations

PART-D

HAZARDOUS WASTES

[As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016].

Hazardous Wastes	Obtained limits from KSPCB	Total Quantity	
		During the previous Financial year 2018-19	During the current Financial year 2019-20
1. Used Oil	2.5 KL/A	0.180 KL/A	0.390 KL/A
2. Oil soaked cotton waste	0.05 MT/A	NIL	0.001 MT/A
3. DG oil filters		0.02 MT/A	0.059 MT/A
4. Batteries	NA	Nil	Nil
5. Empty barrels / Containers/ liners contaminated with hazardous chemicals/wastes	1.000 MT	Centralized collection & disposal from main E-city campus	Centralized collection & disposal from main E-city campus

PART - E

SOLID WASTES:

Solid Wastes	Total Quantity (Kg/A)	
	During the current Financial year 2018 - 19	During the current Financial year 2019 - 20
a. From process	Food waste: 69,099 STP Sludge waste: 13,281 Other Solid wastes: Centralized collection & disposal from main E-city campus	Food waste: 72,508 STP Sludge waste: 14,571 Other Solid wastes: Centralized collection & disposal from main E-city campus
b. From Pollution Control Sources-STP	Sludge from STP 30 to 35 Kgs/day	Sludge from STP 35 to 44 Kgs/day
c. Quantity recycled or re-Utilized within the unit.	Food waste is treated in house through OWC & Biogas plant. STP sludge is treated through sludge solar drying bed All other solid wastes are sent to main campus & disposed to the registered recyclers	Food waste is treated in house through OWC & Biogas plant. STP sludge is treated through sludge solar drying bed All other solid wastes are sent to main campus & disposed to the registered recyclers

PART -F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Waste is segregated at source. A color code for bins has been devised and implemented for different types of waste.

The color codes are as follows:

- Green for bio-degradable waste
- Red for toxic waste;
- Blue for dry recyclable waste
- Grey for e-waste

Bio-medical waste and sanitary waste generated in the campus will be taken out by an agency authorized by PCB.

A focused approach to solid waste management has resulted in better disposal systems. Solid waste included all the Non-hazardous waste viz., paper/ cardboard waste, plastic waste, metal waste, wood waste and garden waste.

Hazardous waste:

- Used Oil / filters / oil-soaked cotton waste – Sent to registered KSPCB authorized recyclers as per Hazardous Waste Rules
- Batteries – will be sent to registered KSPCB authorized battery recyclers through main campus.
- E-waste – will be sent to registered KSPCB authorized recyclers as per Hazardous Waste Rules through main campus.
- Biomedical waste: Generated biomedical waste is disposed to authorized vendor through our main E City Campus
- Covid-19 related tissue papers, masks & gloves centralized disposed (along with Main Campus waste) to send to registered KSPCB authorized incinerator.

Non-Hazardous waste:

- Waste like paper, plastic, metal, wood and glass are segregated disposed to registered recyclers/ re-processors for further disposal. All the generated solid waste is stored and disposed through main campus. We have a centralized storage in the main E City Campus
- Dry sludge – Sent to main campus & used as manure generated from domestic sewage
- Food waste: All the food waste generated is collected in designated color-coded bins and sent to our Organic waste converter which is at Sarjapur.

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

- Low Sulphur diesel is used for DG sets
- We are ensuring 100% segregation of waste at source, stored and disposed as per applicable legal legislation
- Occupancy sensors are installed in the buildings to reduce the utilization of power
- We have installed pressure reducing valves in taps and pipes and flow restrictors which resulted in reduction of water consumption.

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution.

- Infosys has been certified to ISO 14001 & OSHAS 18001.
- Process optimization is followed to reduce our energy and water consumption
- We continue to spread awareness among the employees on the conservation practices
- We are ensuring 100% segregation of waste at source, stored and disposed as per applicable legal legislation
- We have installed Solar panels of total capacity 239.76Kwp.

PART-I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution

- We carry out environmental quality monitoring for Emissions and effluents as per the PCB standards.
- We are ensuring 100% segregation of waste at source.
- We continue to ensure the Color coding for different type of waste which is segregating at the building level
- We have consistently ensured that we reduce, reuse and recycle & dispose the waste responsibly.
- Hazardous wastes are stored and disposed to authorized recyclers only, in adherence to applicable legislation.
- We use green sealed chemicals for our housekeeping purpose.
- Monitoring of Lighting operations; Lighting controls at unoccupied workstations and at Food courts are carried out on regular basis.
- BMS (Building management system) has been implemented.
- We have reduced the usage of tissue papers.

- We have implemented biodegradable plastics which helps in phasing out of single use & non-recyclable plastics.
- Bar code labelling of BMW as per the requirement.
- As part of World Energy Conservation day, we have setup stalls at IIPM location exhibiting energy conservation products such as lighting, solar trap for pests, home appliances and more!
- Installation of solar panels at IIPM roof top and the energy from Sira solar power plant is utilized for this building as well.
- To enhance the storage and reuse of rain water at IIPM, we have established the connectivity between rain water storage tank and STP treated water tank there by increasing the storage capacity.



Part of the Cotecna Group

SHIVA ANALYTICALS (INDIA) PRIVATE LIMITED

Plot No. 24D(P) & 34D, KIADB Industrial Area,
Hoskote, Bangalore - 562 114, Karnataka, India
Tel : +91-80-2801 5333
E-mail : info@shivaanalytics.com
Website : www.shivaanalytics.com
CIN : U24230KA1994PTC125297
GSTN : 29AACC58434K1ZV

Test Certificate (Environment)

Matrix: Stack Emission

Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited..	C.A.No.	05200218000810
Address	IL, Bangalore STP Park - I No. 45 & 46, 3rd Cross, Electronics City Hosur Road, Bangalore - 560100	Date of Receipt	17-FEB-2020
Customer ID	Sample for the month Feb.2020 Stack Monitoring	Date of Booking	18-FEB-2020
Sample ID	Stack attached to 600 KVA DG Set-01.IHPM	Date of Completion	27-FEB-2020
Sampling Date	13-FEB-2020	Date of Issue	27-FEB-2020
Sampling Duration	NA	Instrument used for sampling	Envirotech Stack Sampler APM 620.Date of Calibration:16.03.19.Next Calibration Due on: 15.03.20

S.NO.	TEST	UNIT	RESULTS	REQUIREMENTS	PROTOCOL/TEST METHOD
1	Ambient Temperature	°C	30	Not Specified	IS:11255(P-3) 2008
2	Diameter	m	0.3300	Not Specified	IS:11255(P-3) 2008
3	Stack Temperature	°C	295	Not Specified	IS:11255(P-3) 2008
4	Velocity	m/s	14.42	Not Specified	IS:11255(P-3) 2008
5	Flue Gas discharge	Nm ³ /Hr	2136	Not Specified	IS:11255(P-3) 2008
6	Particulate matter	g/kW-hr	0.072	= 0.2 max	IS:11255(P-1) 1985
7	Sulphur dioxide	mg/Nm ³	< 3	Not Specified	Flue gas analyser
8	Carbon monoxide	g/kW-hr	0.387	= 3.5 max	Flue gas analyser
9	Nitrogen dioxide	g/kW-hr	1.005	= 4.0 max *	Flue gas analyser
10	Non Methane Hydrocarbons	g/kW-hr	< 0.001	= 4.0 max *	IS: 13270: 1992

Remarks: The Requirement mentioned here is as per Environment Protection Act-1986 Sl.No 95 G.S.R. 771(E)

* The Limit for (Nitrogen Dioxide + Hydrocarbons) as per the Standards

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Approved Authorized Signatory

Krishnamurthy..
(Manager-Environment)

Approved On

27-FEB-2020

Printed by: Krishne.Gowda

Printed on: 28-FEB-2020

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Website : www.shivaanalyticals.com
CIN : U24230KA1994PTC125297
GSTN : 29AACCS8434K1ZV

Test Certificate (Environment)

Matrix: Stack Emission

Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited..	C.A.No.	05200218000811
Address	IL Bangalore STP Park - I No. 45 & 46, 3rd Cross, Electronics City Hosur Road, Bangalore - 560100	Date of Receipt	17-FEB-2020
Customer ID	Sample for the month Feb.2020 Stack Monitoring	Date of Booking	18-FEB-2020
Sample ID	Stack attached to 600 KVA DG Set-02.HPM	Date of Completion	27-FEB-2020
Sampling Date	13-FEB-2020	Date of Issue	27-FEB-2020
Sampling Duration	NA	Instrument used for sampling	Envirotech Stack Sampler APM 620.Date of Calibration:16.03.19,Next Calibration Due on: 15.03.20

S.NO.	TEST	UNIT	RESULTS	REQUIREMENTS	PROTOCOL/TEST METHOD
1	Ambient Temperature	°C	30	Not Specified	IS:11255(P-3) 2008
2	Diameter	m	0.3300	Not Specified	IS:11255(P-3) 2008
3	Stack Temperature	°C	285	Not Specified	IS:11255(P-3) 2008
4	Velocity	m/s	13.39	Not Specified	IS:11255(P-3) 2008
5	Flue Gas discharge	Nm ³ /Hr	2001	Not Specified	IS:11255(P-3) 2008
6	Particulate matter	g/kW-hr	0.064	= 0.2 max	IS:11255(P-1) 1985
7	Sulphur dioxide	mg/Nm ³	< 3	Not Specified	Flue gas analyser
8	Carbon monoxide	g/kW-hr	0.411	= 3.5 max	Flue gas analyser
9	Nitrogen dioxide	g/kW-hr	1.074	= 4.0 max *	Flue gas analyser
10	Non Methane Hydrocarbons	g/kW-hr	< 0.001	= 4.0 max *	IS: 13270: 1992

Remarks: The Requirement mentioned here is as per Environment Protection Act-1986 Sl.No 95 G.S.R. 771(E)

* The Limit for (Nitrogen Dioxide + Hydrocarbons) as per the Standards

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Approved Authorized Signatory: Krishnamurthy., (Manager-Environment) Approved On: 27-FEB-2020

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Test Certificate (Environment)

Matrix: Stack Emission

Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited.,	C.A.No.	05200218000812
Address	IL Bangalore STP Park - I No. 45 & 46, 3rd Cross, Electronics City Hosur Road, Bangalore - 560100	Date of Receipt	17-FEB-2020
Customer ID	Sample for the month Feb.2020 Stack Monitoring	Date of Booking	18-FEB-2020
Sample ID	Stack attached to 600 KVA DG Set-03, IIPM	Date of Completion	27-FEB-2020
Sampling Date	13-FEB-2020	Date of Issue	27-FEB-2020
Sampling Duration	NA	Instrument used for sampling	Envirotech Stack Sampler APM 620.Date of Calibration:16.03.19.Next Calibration Due on: 15.03.20

S.NO.	TEST	UNIT	RESULTS	REQUIREMENTS	PROTOCOL/TEST METHOD
1	Ambient Temperature	°C	31	Not Specified	IS:11255(P-3) 2008
2	Diameter	m	0.3300	Not Specified	IS:11255(P-3) 2008
3	Stack Temperature	°C	315	Not Specified	IS:11255(P-3) 2008
4	Velocity	m/s	13.79	Not Specified	IS:11255(P-3) 2008
5	Flue Gas discharge	Nm ³ /Hr	1956	Not Specified	IS:11255(P-3) 2008
6	Particulate matter	g/kW-hr	0.063	= 0.2 max	IS:11255(P-1) 1985
7	Sulphur dioxide	mg/Nm ³	< 3	Not Specified	Flue gas analyser
8	Carbon monoxide	g/kW-hr	0.490	= 3.5 max	Flue gas analyser
9	Nitrogen dioxide	g/kW-hr	0.997	= 4.0 max *	Flue gas analyser
10	Non Methane Hydrocarbons	g/kW-hr	< 0.001	= 4.0 max *	IS: 13270: 1992

Remarks: The Requirement mentioned here is as per Environment Protection Act-1986 Sl.No 95 G.S.R. 771(E)

* The Limit for (Nitrogen Dioxide + Hydrocarbons) as per the Standards

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CIN : U24230KA1994PTC125297
GSTN : 29AACCS8434K1ZV

Test Certificate (Environment)

Matrix: Ambient Air			
Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited.	C. A.No.	05200328001433
Address	II, Bangalore STP Park - I No. 45 & 46, 3rd Cross, Electronics City Hosur Road, Bangalore - 560100	Date of Receipt	23-MAR-2020
Customer ID	Sample for the month of March, 2020, Ambient Air Quality	Date of Booking	28-MAR-2020
Sample ID	Near Building No EC-40 & 41 HPM Gate -2	Date of Completion	22-APR-2020
Sampling Date	15-MAR-2020	Date of Issue	22-APR-2020
Sampling Duration	24 Hrs	Instrument used for sampling	ThermoEnvironmentalRespirableDust samplerModelTEI-108 BL,TEI 110, FineparticulatesamplerModel TEI121

S.NO.	TEST	UNIT	RESULTS	REQUIREMENTS	PROTOCOL/TEST METHOD
1	Particulate matter Size less than 10 microns	$\mu\text{g m}^{-3}$	63.2	100 max	IS: 5182 (Part-23): 2006
2	Particulate Matter size less than 2.5 microns	$\mu\text{g m}^{-3}$	32.8	60 max	IS: 5182 (Part-24): 2019
3	Sulphur Dioxide as SO ₂	$\mu\text{g m}^{-3}$	12.3	80 max	IS 5182 (Part-2): 2001
4	Nitrogen Dioxide as NO ₂	$\mu\text{g m}^{-3}$	35.4	80 max	IS:5182 (Part-6): 2006
5	Carbon Monoxide as CO	mg m^{-3}	1.45	2 max	IS: 5182 (Part-10): 1999
6	Lead as Pb	$\mu\text{g m}^{-3}$	0.015	1 max	IS: 5182 (Part-22): 2004
7	Ammonia as NH ₃	$\mu\text{g m}^{-3}$	34.6	400 max	IS: 5182 (Part-25): 2018
8	Ozone as O ₃	$\mu\text{g m}^{-3}$	25.2	100 max	IS 5182 (Part-9): 1974
9	Benzene as C ₆ H ₆	$\mu\text{g m}^{-3}$	Below detection Limit of 2.5	5 max	IS: 5182 (Part-11): 2006
10	Benzo(a)pyrene (Particulate phase only)	ng m^{-3}	Below Detection Limit of 0.1	1 max	IS: 5182 (Part-12): 2004
11	Arsenic as As	ng m^{-3}	Below Detection Limit of 1	6 max	USEPA Compendium Method IO 3.1 & 3.4
12	Nickel as Ni	ng m^{-3}	3.4	20 max	USEPA Compendium Method IO 3.1 & 3.4

Remarks: The Requirement mentioned here is as per National ambient air quality standards.

Approved Authorized Signatory

Krishnamurthy,
(Manager-Environment)

Approved On

22-APR-2020

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Printed on: 22-APR-2020

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Website : www.shivaanalytics.com
CIN : U24230KA1994PTC125297
GSTN : 29AACCS8434K1ZV

Test Certificate (Environment)

Matrix: Ambient Air			
Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited.,	C. A.No.	05200328001433
Address	IL Bangalore STP Park - I No. 45 & 46, 3rd Cross, Electronics City Hostur Road, Bangalore - 560100	Date of Receipt	23-MAR-2020
Customer ID	Sample for the month of March, 2020, Ambient Air Quality	Date of Booking	28-MAR-2020
Sample ID	Near Building No EC-40 & 41 HPM Gate -2	Date of Completion	22-APR-2020
Sampling Date	15-MAR-2020	Date of Issue	22-APR-2020
Sampling Duration	24 Hrs	Instrument used for sampling	ThermoEnvironmentalRespirableDus tsamplerModelTEI-108 BL,TEI 110, FineparticulatesamplerModel TEI121

Note: Instruments used

i) Thermo Environmental Respirable Dust sampler Model TEI-108 BL , TEI 110.

Date of Calibration : 26.03.2019

Next Calibration Due on: 25.03.2020

ii) Fine particulate sampler Model TEI 121.

Date of Calibration : 26.03.2019

Next Calibration Due on: 25.03.2020

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CIN : U24230KA1994PTC125297
GSTN : 29AACCS8434K1ZV

Test Certificate (Environment)

Matrix: Noise

Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited.,	C.A.No.	05200328001449
Address	IL, Bangalore STP Park - I No. 45 & 46, 3rd Cross, Electronics City Hosur Road, Bangalore - 560100	Date of Receipt	23-MAR-2020
Customer ID	Sample for the month of March 2020, Ambient Noise	Date of Booking	28-MAR-2020
Sample ID	Near gate # 02 IHPM building	Date of Completion	22-APR-2020
Sampling Date	15-MAR-2020	Date of Issue	22-APR-2020
Sampling Duration	24 Hrs	Instrument used for sampling	Sound Level Meter- BASE LINE, Model 2511

S.NO.	TEST	UNIT	RESULTS	PROTOCOL/TEST METHOD
1	Day Time Noise Level	dB(A) Leq	69.0	IS 9989: 1981
2	Night Time Noise Level	dB(A) Leq	50.7	IS 9989: 1981

Remarks: Ambient air quality standards in respect of Noise as per Environment (Protection) Rules, 1986

Area Code-----	Category of area-----	Day Time Limits in dB(A) Leq-----	Day Time Limits in dB(A) Leq
(A)-----	Industrial area-----	75-----	65
(B)-----	Commercial area-----	65-----	55
(C)-----	Residential area-----	55-----	45
(D)-----	Silence Zone-----	50-----	40

Note1: Day time is reckoned in between 06.00 am and 09.00 pm

Note2: Night time is reckoned in between 09.00 pm and 06.00 am

Note: Instruments used and Calibration details

Sound Level Meter- BASE LINE, Model 2511

Date of Calibration : 28.01.2020

Next Calibration Due on: 27.01.2021

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Krishnamurthy,
(Manager-Environment)

Approved On

22-APR-2020

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Part of the Cotecna Group

SHIVA ANALYTICALS (INDIA) PRIVATE LIMITED

Plot No. 24D(P) & 34D, KIADB Industrial Area,
Hoskote, Bangalore - 562 114, Karnataka, India
Tel : +91-80-2801 5333
E-mail : info@shivaanalytics.com
Website : www.shivaanalytics.com
CIN : U24230KA1994PTC125297
GSTN : 29AACCS8434K1ZV

Test Certificate (Environment)

Matrix: Noise			
Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited.	C.A.No.	05200328001451
Address	IL Bangalore S IP Park - I No. 45 & 46, 3rd Cross, Electronics City Hosur Road, Bangalore - 560100	Date of Receipt	23-MAR-2020
Customer ID	Sample for the month of March 2020. Ambient Noise	Date of Booking	28-MAR-2020
Sample ID	Near IIPM building-Back side near bus parking area	Date of Completion	22-APR-2020
Sampling Date	15-MAR-2020	Date of Issue	22-APR-2020
Sampling Duration	24 Hrs	Instrument used for sampling	Sound Level Meter- BASE LINE, Model 2511

S.NO.	TEST	UNIT	RESULTS	PROTOCOL/TEST METHOD
1	Day Time Noise Level	dB(A) Leq	55.2	IS 9989: 1981
2	Night Time Noise Level	dB(A) Leq	48.1	IS 9989: 1981

Remarks: Ambient air quality standards in respect of Noise as per Environment (Protection) Rules, 1986
 Area Code----- Category of area----- Day Time Limits in dB(A) Leq----- Day Time Limits in dB(A) Leq
 (A)----- Industrial area-----75-----65
 (B)----- Commercial area-----65-----55
 (C)----- Residential area-----55-----45
 (D)----- Silence Zone-----50-----40

Note1: Day time is reckoned in between 06.00 am and 09.00 pm
 Note2: Night time is reckoned in between 09.00 pm and 06.00 am

Note: Instruments used and Calibration details
 Sound Level Meter- BASE LINE, Model 2511
 Date of Calibration : 28.01.2020
 Next Calibration Due on: 27.01.2021

Terms And Conditions

S.No.	Description
1	The results reported above pertains only to the tested samples and applicable parameters.
2	Samples which are degradable will be disposed immediately after testing and others will be disposed after one month from the date of issue of test certificate unless otherwise specified.
3	Total liability of our laboratory is limited to the invoiced amount.
4	This report is not to be reproduced either wholly or in part and cannot be used as an evidence in the Court of Law and should not be used in any advertising media without prior written permission.
5	In case any reconfirmation of contents of this test certificate is required, please contact our office.
6	Sampling is not done by us unless specified.
7	Any discrepancy in the Test Certificate should be notified within 30 days.

Approved Authorized Signatory

Krishnamurthy..
(Manager-Environment)

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CIN : U24230KA1994PTC125297
GSTN : 29AACCS8434K1ZV

Test Certificate (Environment)

Matrix: Noise			
Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited.	C.A.No.	05200328001450
Address	IL Bangalore STP Park - 1 No. 45 & 46, 3rd Cross, Electronics City Hosur Road, Bangalore - 560100	Date of Receipt	23-MAR-2020
Customer ID	Sample for the month of March 2020. Ambient Noise	Date of Booking	28-MAR-2020
Sample ID	Near HIPM building- Near gate -2	Date of Completion	22-APR-2020
Sampling Date	15-MAR-2020	Date of Issue	22-APR-2020
Sampling Duration	24 Hrs	Instrument used for sampling	Sound Level Meter- BASE LINE, Model 2511

S.NO.	TEST	UNIT	RESULTS	PROTOCOL/TEST METHOD
1	Day Time Noise Level	dB(A) Leq	58.1	IS 9989: 1981
2	Night Time Noise Level	dB(A) Leq	50.3	IS 9989: 1981

Remarks: Ambient air quality standards in respect of Noise as per Environment (Protection) Rules, 1986

Area Code----- Category of area----- Day Time Limits in dB(A) Leq----- Day Time Limits in dB(A) Leq

(A)----- Industrial area-----75-----65

(B)----- Commercial area-----65-----55

(C)----- Residential area-----55-----45

(D)----- Silence Zone-----50-----40

Note1: Day time is reckoned in between 06.00 am and 09.00 pm

Note2: Night time is reckoned in between 09.00 pm and 06.00 am

Note: Instruments used and Calibration details

Sound Level Meter- BASE LINE, Model 2511

Date of Calibration : 28.01.2020

Next Calibration Due on: 27.01.2021

Terms And Conditions

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Krishnamurthy,
(Manager-Environment)

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 Near Hosa Road Junction, Hosur Main Road, Bangalore - 560100.
 Ph: +91 80 25743042 | website : www.aquadiagnostics.org | E: askme@IAPMOAquadiagnostics.org

TEST REPORT

ULR – TC76471900000936F

Date: 22.02.2020

CUSTOMER DETAILS		SAMPLE DETAILS	
Name & Address M/s Infosys Ltd, IIPM BUILDING, Electronics City, Bangalore.	Sample Code No.	: AWRCLWTR – C&B/ 08815-08815A/ 19-20	
	Sample received on	: 11.02.2020	
	Reference	: PO.NO.430002253 Dated 24.05.2019	
	Description of the sample	: TREATED SEWAGE WATER	
	Date of Analysis started	: 11.02.2020(Chemistry)	
		: 11.02.2020 (Microbiology)	
	Date of Analysis Completed	: 15.02.2020(Chemistry)	
		: 13.02.2020 (Microbiology)	
	Quantity of the sample	: 1 Ltr + 250ml	
	Packing seal and signature	: Without seal & Signature	
	Sampling	: Mr.Ramu - IS 3025(Part 1) 1987 (RA 2019)	
	Subcontract	: Not Applicable	
	Condition of the sample when received:	Clear water in Plastic and sterilized bottles.	

TEST DATA: CHEMICAL TESING – WATER

S.No	PARAMETER TESTED	UNITS	TEST METHOD	TEST RESULT	Effluent discharge standard for Sewage treatment plant CPCB And KSPCB consent Parameters
					Requirement (Acceptable Limit)
1	Color	Hazen	APHA 23 rd edn 2120 B	<5.0	--
2	Odor	----	IS 3025 (Part 5):1983 (RA 2018)	Agreeable	--
3	Turbidity NTU	NTU	APHA 23 rd edn 2130 B	<1.0	--
4	pH Value	----	APHA 23 rd edn 4500 H+ B	7.59	6.5-9.0
5	Total Dissolved solids	mg/L	APHA 23 rd edn 2540 C	749.0	--
6	Total suspended Solids	mg/L	APHA 23 rd edn 2540 D	<1.0	≥ 20
7	Oil and grease	mg/L	APHA 23 rd edn 5520 B	<1.0	--
8	Residual Chlorine	mg/L	APHA 23 rd edn 4500 Cl F	<0.2	--
9	BOD	mg/L	IS 3025 (Part 44):1993 (RA 2019)	6.2	≥ 10
10	COD	mg/L	APHA 23 rd edn 5220 B	40.0	≥ 50
11	Ammonical nitrogen NH3-N	mg/L	APHA 23 rd edn 4500 NH 3 F	<0.1	≥ 5.0
12	Total Nitrogen as N	mg/L	IS 3025Part 34 1988 (RA 2009) + APHA 23 rd edn 4500NO3B + 4500 Norg	0.81	≥ 10

TEST DATA: MICROBIOLOGICAL TESTING – WATER

S.No	PARAMETER TESTED	TEST METHOD	TEST RESULT	Effluent discharge standard for Sewage treatment plant CPCB And KSPCB consent Parameters
1	Faecal Coliform MPN / 100 ml	IS 1622:1981 (RA 2019)	Not Detected	Less than 100
2	E. coli or thermotolerant Coliform bacteria Presence or Absence / 100ml	IS 1622:1981 (RA 2019)	Absent	---

MPN: Most Probable Number

INTERPRETATION: Tested sample of water conforms to above Specification.

[Handwritten Signature]

[Handwritten Signature]
 T. MURALI KHANNA
 692260

AUTHORIZED SIGNATORY
 For, *[Handwritten Signature]*
DR S.MURALIDHARA RAO
 Head – Laboratory

REPORT No: AWRCL/ WTR-C&B /08815-08815A / 19-20, Date: 11.02.2020 Page 1 of 3

NABL ACCREDITED LABORATORY | RECOGNIZED BY IAPMO R&T - USA

WE UNDER TAKE ANALYTICAL JOBS FOR WATER, FOOD, BIOCIDAL RESINS, DETERGENTS & SANITIZERS AND SOIL. WE CARRY OUT PERFORMANCE EVALUATION OF DRINKING WATER TREATMENT UNITS AS PER NSF/ANSI AND BIS STANDARDS BASED ON PERFORMANCE WE CAN ARRANGE FOR CERTIFICATION FROM IAPMO R&T - USA.

Note:

- The Results pertain only to the tested samples and applicable parameters.
- Samples will be disposed after 15 days from the issue of test certificate unless otherwise specified, In case of bacteriological tests, the samples will be disposed after 7 days itself from the date of issuing the certificate.
- This report is not to be reproduced either wholly or in parts and cannot be used as evidence in the court of Law and should not be used in any advertising media without prior written permission.

TEST REPORT

ULR - TC76471900000936F

Date: 22.02.2020

CUSTOMER DETAILS	SAMPLE DETAILS
Name & Address M/s Infosys Ltd, IIPM BUILDING, Electronics City, Bangalore	Sample Code No. : AWRCLWTR - C/ 08815/ 19-20 Sample received on : 12.09.2019 Reference : PO.NO.430002253 Dated 24.05.2019 Description of the sample : TREATED SEWAGE WATER Date of Analysis started : 12.09.2019 Date of Analysis Completed : 17.09.2019 Quantity of the sample : 1 Ltr Packing seal and signature : Without seal & Signature Sampling : Mr.Ramu - IS 3025(Part 1) 1987 (RA 2019) Subcontract : Not Applicable Condition of the sample when received: Clear water in a Plastic bottle.


TEST DATA: CHEMICAL TESTING - WATER

S.No	PARAMETER TESTED	TEST METHOD	TEST RESULT
1	Silica as SiO ₂ mg/L	APHA 23 rd edn 4500 SIO ₂ C	7.29

Handwritten signature

*T. Munth Kumar
602260*

AUTHORIZED SIGNATORY

for, 
DR S. MURALIDHARA RAO
Head - Laboratory

REPORT No: AWRCL/ WTR-C /08815/ 19-20, Date: 22.02.2020 Page 2 of 3

NABL ACCREDITED LABORATORY | RECOGNIZED BY IAPMO R&T - USA

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TEST REPORT

ULR – TC764719000000936F

Date: 22.02.2020

CUSTOMER DETAILS	SAMPLE DETAILS
Name & Address M/s Infosys Ltd, IIPM BUILDING, Electronics City, Bangalore	Sample Code No. : AWRCLMTR – C&B/ 08815/ 19-20 Sample received on : 11.02.2020 Reference : PO.NO.430002253 Dated 24.05.2019 Description of the sample : TREATED SEWAGE WATER Date of Analysis started : 11.02.2020 Date of Analysis Completed : 15.02.2020 Quantity of the sample : 1 Ltr Packing seal and signature : Without seal & Signature Sampling : Mr.Ramu - IS 3025(Part 1) 1987 (RA 2019) Subcontract : Not Applicable Condition of the sample when received: Clear water in a Plastic bottle.

TEST DATA:CHEMICAL TESING – WATER

S.No	PARAMETER TESTED	UNIT	TEST METHOD	TESTRESULT
1	Sodium absorption ratio (SAR)	Mmol/L	APHA 23 rd edn 3500 Ca B+NaB+Mg B	11.02

AUTHORIZED SIGNATORY

WTS/15 *J. Muthukumar*
097260



DR S. MURALIDHARA RAO
Head – Laboratory

REPORT No: AWRCL/ WTR-C /08815 / 19-20, Date: 22.02.2020 Page 3 of 3

End of the Report

NABL ACCREDITED LABORATORY | RECOGNIZED BY IAPMO R&T - USA

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