

KSPCB/FORM-V/2019-20/02

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 MC Building, Bangalore

With reference to above subject, we hereby submitting the Environmental Statement (Form-V) for the FY 2019-20 for our Infosys MC building, Plot. No.53, Sy. No.157(P) at Electronic city, Bangalore. Enclosed the copies of the same for your reference.

1. Form-V for MC 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 Sy No.157 (P), Plot No. 53 Electronic City Bangalore – 560100
<i>Operation or process.</i>	Software Development
<i>ii. Industry category Primary- (STC Code) Secondary- (STC Code)</i>	Green Category
<i>iii. Production category. Units.</i>	Software Development
<i>iv. Year of establishment</i>	2013
<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. 16 m³/day

Enclosures:

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

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

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
		NA	

** 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	0.03 kgs/ltrs	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 current Financial year 2018-19	During the current Financial year 2019-20
1. Used Oil	1.3 KL/A	0.720 KL	0.735 KL
2. Oil soaked cotton waste	0.150 MT/A	0.004 MT	0.004 MT
3. DG oil filters		34 No's/0.056 MT	0.056 MT
4. Batteries		Nil	192 No's
5. Discarded/ Paint Containers	50,000 No's/A (for Campus)	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 (FY 2018-19)	During the current Financial year (FY 2019-20)
a. From process	Food waste: 42,871 STP Sludge waste: 10,378 Other Solid wastes: Centralized collection & disposal from main E-city campus	Food waste: 40,681 STP Sludge waste: 11,135 Other Solid wastes: Centralized collection & disposal from main E-city campus
b. From Pollution Control Sources-STP	Sludge from STP 25 to 30 Kgs/day	Sludge from STP 25 to 32 Kgs/day
c. Quantity recycled or re-Utilized within the unit.	Food waste is treated in house through biogas and OWC. 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 biogas and OWC. 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 and 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.

- Dry sludge – Sent to main campus & used as manure 25 to 30 kgs/day generated from domestic sewage

Hazardous waste:

- Used Oil / filters / oil soaked cotton waste – Sent to registered KSPCB authorized recyclers as per Hazardous Waste Rules
- Batteries - Sent to registered KSPCB authorized battery recyclers through main campus.
- E-waste - 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 25 to 30 kgs/day generated from domestic sewage
- Food waste: All the food waste generated is collected in designated color coded bins and is used for the Biogas plant

PART-G

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

- We have 90.26Kwp of solar photovoltaic (PV) systems on the rooftop to harvest solar energy.
- The building design demonstrates 42% reduction in energy consumption compared to ASHRAE standards and is the first building in India to implement radiant panel based cooling system
- Low Sulphur diesel is used for DG sets
- Treated water from STP is used for HVAC systems and flushing purpose, thereby we have reduced the consumption of fresh water
- Sludge waste is treated in solar sludge drying bed which comprises of Building envelope and Electric mole (Automatic Robots). The main source for entire process is solar energy and due to this 35% or less moisture content is expected after sludge drying. The dried sludge is used as manure for in house landscaping

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
- MC building is awarded with LEED India Platinum rating & two GRIHA 5star rating for its new activities in prevention of natural resources.
- We have radiant panel-based cooling system to achieve the highest levels of efficiency. And first building in India to implement radiant panel based cooling system
- Individual lighting controls are provided for at least 90% of the building occupants to enable adjustments to suit individual task needs and preferences. For multi-occupant spaces, lighting controls are provided for group needs.
- We have Energy harvesting switches and sensors, wireless, battery less and power less occupancy sensors which generate their own energy from building indoor environment
- We have installed Solar panels of total capacity 90.26Kwp.
- LED's are used for indoor lighting & Occupancy Sensors
- We have continued to achieve the reduction in water use through use of water efficient fixtures & reuse of treated grey water for flushing.
- Pressure compensating aerators are there in the building to reduce the consumption.
- Waterless urinals have been installed in the entire building to reduce consumption.
- We have Rainwater harvesting strategies in the building by channelizing the roof water and storm water runoff to the recharge pits

- A membrane bioreactor (MBR) technology-based sewage treatment plant (STP) recycles 100% of wastewater generated and this is reused for flushing, landscaping and for cooling towers makeup

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.
- Treated water from STP is used for HVAC systems and flushing purpose, thereby we have reduced the consumption of fresh water
- We are ensuring 100% segregation of waste at source, stored and disposed as per applicable legal legislation
- 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.
- Treated water from STP is used for HVAC systems, gardening and flushing purpose, thereby we have reduced the consumption of fresh water
- 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.



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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: Stack Emission			
Discipline	Chemical	PO / Reference No.	2300149397
Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited.,	C.A.No.	05200218000801
Address	II, 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 of Feb. 2020. Stack Monitoring	Date of Booking	18-FEB-2020
Sample ID	Stack attached to 1250 KVA DG Set-2-M&C Building	Date of Completion	27-FEB-2020
Sampling Date	13-FEB-2020	Date of Issue	27-FEB-2020
Sampling Duration	NA	Instrument used for sampling	Vayubodhan Upakaran Pvt Ltd Stack Sampler VSS 3

S.NO.	TEST	UNIT	RESULTS	REQUIREMENTS	PROTOCOL/TEST METHOD
1	Ambient Temperature	°C	29	Not Specified	IS 11255 (P3) : 2008
2	Stack Diameter	m	0.3300	Not Specified	IS : 11255 (P3) : 2008
3	Flue gas Temperature	°C	293	Not Specified	IS 11255 (P3) : 2008
4	Flue gas Velocity	m/s	13.44	Not Specified	IS 11255 (P3) : 2008
5	Quantity of Emission	Nm ³ /Hr	1978	Not Specified	IS 11255 (P3) : 2008
6	Particulate matter	mg/Nm ³	31.1	75 max	IS 11255 (P1) : 1985
7	Sulphur Dioxide as SO ₂	mg/Nm ³	Below Detection Limit of 3	Not Specified	Fluegas Analyzer Method
8	Oxides of Nitrogen as NO ₂	ppmv	121	710 max	Fluegas Analyzer Method
9	Carbon monoxide as CO	mg/Nm ³	136	150 max	Fluegas Analyzer Method
10	Non Methane Hydrocarbons	mg/Nm ³	Below Detection Limit of 1	100 max	IS 13270 : 1992

Remarks: The Requirement mentioned here is as per Environment Protection Act-1986

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

Printed by: Krishna.Gowda Printed on: 28-FEB-2020

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Website : www.shivaanalytics.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.	05200218000801
Address	IL Bangalore STP Park - 1 No. 45 & 46, 3rd Cross, Electronics City Hosur Road, Bangalore - 560100	Date of Receipt	17-FEB-2020
Customer ID	Sample for the month of Feb. 2020. Stack Monitoring	Date of Booking	18-FEB-2020
Sample ID	Stack attached to 1250 KVA DG Set-2-M&C Building	Date of Completion	27-FEB-2020
Sampling Date	13-FEB-2020	Date of Issue	27-FEB-2020
Sampling Duration	NA	Instrument used for sampling	Vayubodhan Upakaran Pvt Ltd Stack Sampler VSS 3

7 Any discrepancy in the Test Certificate should be notified within 30 days.

Approved Authorized Signatory

Krishnamurthy,
(Manager-Environment)

Approved On

27-FEB-2020

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Matrix: Stack Emission

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Group	Atmospheric Pollution	PO / Reference Date	12-JUN-2019
Issued To	Infosys Limited.,	C.A.No.	05200218000802
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 of Feb. 2020. Stack Monitoring	Date of Booking	18-FEB-2020
Sample ID	Stack attached to 1250 KVA DG Set-3-M & C Building	Date of Completion	27-FEB-2020
Sampling Date	13-FEB-2020	Date of Issue	27-FEB-2020
Sampling Duration	NA	Instrument used for sampling	Vayubodhan Upakaran Pvt Ltd Stack Sampler VSS 3

S.NO.	TEST	UNIT	RESULTS	REQUIREMENTS	PROTOCOL/TEST METHOD
1	Ambient Temperature	°C	30	Not Specified	IS 11255 (P3) : 2008
2	Stack Diameter	m	0.3300	Not Specified	IS :11255 (P3) : 2008
3	Flue gas Temperature	°C	297	Not Specified	IS 11255 (P3) : 2008
4	Flue gas Velocity	m/s	13.55	Not Specified	IS 11255 (P3) : 2008
5	Quantity of Emission	Nm ³ /Hr	1980	Not Specified	IS 11255 (P3) : 2008
6	Particulate matter	mg Nm ³	30.6	75 max	IS 11255 (P1) : 1985
7	Sulphur Dioxide as SO ₂	mg Nm ³	Below Detection Limit of 3	Not Specified	Fluegas Analyzer Method
8	Oxides of Nitrogen as NO ₂	ppmv	100	710 max	Fluegas Analyzer Method
9	Carbon monoxide as CO	mg Nm ³	115	150 max	Fluegas Analyzer Method
10	Non Methane Hydrocarbons	mg Nm ³	Below Detection Limit of 1	100 max	IS 13270 : 1992

Remarks: The Requirement mentioned here is as per Environment Protection Act-1986

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Website : www.shivaanalytics.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.	05200218000802
Address	II, 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 of Feb. 2020. Stack Monitoring	Date of Booking	18-FEB-2020
Sample ID	Stack attached to 1250 KVA DG Set-3-M & C Building	Date of Completion	27-FEB-2020
Sampling Date	13-FEB-2020	Date of Issue	27-FEB-2020
Sampling Duration	NA	Instrument used for sampling	Vayubodhan Upakaran Pvt LtdStack Sampler VSS 3

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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.	05200328001431
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 Air Quality	Date of Booking	28-MAR-2020
Sample ID	Near DG Room, EC-53 (M & C Building)	Date of Completion	22-APR-2020
Sampling Date	13-MAR-2020	Date of Issue	22-APR-2020
Sampling Duration	24 Hrs	Instrument used for sampling	ThermoEnvironmentalRespirableDust SamplerModelTEI-108 BL,TEI 110, FineparticulatesamplerModel TEH121

S.NO.	TEST	UNIT	RESULTS	REQUIREMENTS	PROTOCOL/TEST METHOD
1	Particulate matter Size less than 10 microns	µg m ³	62.0	100 max	IS: 5182 (Part-23): 2006
2	Particulate Matter size less than 2.5 microns	µg m ³	32.0	60 max	IS: 5182 (Part 24): 2019
3	Sulphur Dioxide as SO ₂	µg m ³	9.4	80 max	IS 5182 (Part-2): 2001
4	Nitrogen Dioxide as NO ₂	µg m ³	32.6	80 max	IS 5182 (Part-6): 2006
5	Carbon Monoxide as CO	mg m ³	1.26	2 max	IS: 5182 (Part-10): 1999
6	Lead as Pb	µg m ³	0.014	1 max	IS: 5182 (Part-22): 2004
7	Ammonia as NH ₃	µg m ³	29.3	400 max	IS: 5182 (Part-25): 2018
8	Ozone as O ₃	µg m ³	19.7	100 max	IS 5182 (Part-9): 1974
9	Benzene as C ₆ H ₆	µg m ³	Below detection Limit of 2.5	5 max	IS: 5182 (Part-11): 2006
10	Benz(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	5.8	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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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.	05200328001431
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 Air Quality	Date of Booking	28-MAR-2020
Sample ID	Near DG Room, EC-53 (M & C Building)	Date of Completion	22-APR-2020
Sampling Date	13-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.	05200328001440
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	MC Building Near main gate	Date of Completion	22-APR-2020
Sampling Date	13-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	55.4	IS 9989: 1981
2	Night Time Noise Level	dB(A) Leq	47.4	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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SHIVA ANALYTICALS (INDIA) PRIVATE LIMITED

Plot No. 24D(P) & 34D, KJADB 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 : 29AACC88434K1ZV

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.	05200328001441
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	MC Building Near Entrance gate of car parking area	Date of Completion	22-APR-2020
Sampling Date	13-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	62.7	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

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., Approved On 22-APR-2020
 (Manager-Environment)

Printed by: Krishna.Gowda Printed on: 22-APR-2020
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Part of the Cotecna Group

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E-mail : info@shivanalyticals.com
Website : www.shivanalyticals.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.	05200328001442
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	MC Building Near DG room	Date of Completion	22-APR-2020
Sampling Date	13-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	59.2	IS 9989: 1981
2	Night Time Noise Level	dB(A) Leq	50.1	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

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Approved Authorized Signatory

Krishnamurthy,
(Manager-Environment)

Approved On

22-APR-2020

Printed by: Krishne.Gowda

Printed on: 22-APR-2020

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TEST REPORT

ULR - TC76471900000931F

Date: 22.02.2020

CUSTOMER DETAILS	SAMPLE DETAILS
Name & Address M/s Infosys Ltd, MC BUILDING Electronics City, Bangalore.	Sample Code No. : AWRTCLWTR - C&B/ 08810-08810A/ 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 + 250 ml 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: Turbid 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	7.50	6.5-9.0
5	Total Dissolved solids	mg/L	APHA 23 rd edn 2540 C	848.0	--
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	<0.1	--
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)	6.40	≥ 10
10	COD	mg/L	APHA 23 rd edn 5220 B	50.0	≥ 50
11	Ammonical nitrogen NH ₃ -N	mg/L	APHA 23 rd edn 4500 NH 3 F	0.22	≥ 5.0
12	Total Nitrogen as N	mg/L	IS 3025 Part 34 1998 (RA 2009) + APHA 23 rd edn 4500NO3B + 4500 Noig	1.34	≥ 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	---

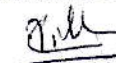
MPN: Most Probable Number

INTERPRETATION: Tested sample of water conforms to above Specification.

R 23/2/15

*T. Ramakrishnan
697260*

AUTHORIZED SIGNATORY



DR S. MURALIDHARA RAO
Head - Laboratory

REPORT No: AWRTCL/ WTR-C&B /08810-08810A / 19-20, Date: 22.02.2020 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.
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TEST REPORT

ULR – TC764719000000931F

Date: 22.02.2020

CUSTOMER DETAILS	SAMPLE DETAILS	
Name & Address M/s Infosys Ltd, MC BUILDING, Electronics City, Bangalore.	Sample Code No.	:AWRTCLWTR – C/ 08810/ 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: Turbid water in a Plastic bottle	

TEST DATA:CHEMICAL TESTING – WATER

S.No	PARAMETER TESTED	TEST METHOD	TESTRESULT
1	Silica as SiO2 mg/L	APHA 23 rd edn 4500 SiO2 C	7.27

AUTHORIZED SIGNATORY

H/731815 → *T. Ananthakumaran*
607260

for, *[Signature]*
DR S. MURALIDHARA RAO
Head – Laboratory

REPORT No: AWRTCL/ WTR-C /08810 / 19-20, Date: 22.02.2020 Page 2 of 3

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TEST REPORT

ULR – TC76471900000931F

Date: 22.02.2020

CUSTOMER DETAILS	SAMPLE DETAILS
Name & Address M/s Infosys Ltd, MC BUILDING, Electronics City, Bangalore	Sample Code No. : AWRCL/WTR – C&B/ 08810/ 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	10.32

AUTHORIZED SIGNATORY

R. B. B. W.

*T. Muralidharan
697260*

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

REPORT No: AWRCL/ WTR-C /08810 / 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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