

IL-SEZ/HYD/FAC/170921

September 17, 2021

Environmental Engineer
Regional Office -1,
Telangana State Pollution Control Board
Ward No.91, 2nd Floor, H-No.6-3-1219, Block C, Backside of country club,
Kundanbagh, Umanagar, Begumpet,
Hyderabad

Dear Sir,

Sub: Submission of FORM V – Environmental Statement – Reg.

With reference to the above subject, we are hereby submitting the Environmental Statement (FORM V) for the financial year 2020-2021 of following campus:

Infosys Limited
Special Economic Zone, Survey No. 50 (Part), 51, 54, 49, 48, 44 &
45 (Part), 41 (Part), 36 (Part), Pocharam Village,
Singapore Township Post Office, Ghatkesar Mandal,
Medchal – Malkajgiri – District
500 088

Kindly acknowledge the receipt of the same.

Thanking you,

Yours sincerely,
for **Infosys Limited**


Authorized Signatory

Encl: a/a

CC: Telangana State Pollution Control Board
A-3, Paryavaran Bhavan, Sanath Nagar Rd, Sanath Nagar Industrial Estate,
Sanath Nagar, Hyderabad, Telangana 500018 Sanathnagar, Hyderabad



INFOSYS LIMITED
SEZ Survey No. 41 (pt) 50 (pt)
Pocharam Village
Singapore Township PO
Ghatkesar Mandal
Malkajgiri – Medchal District
Hyderabad 500 088, India
T 91 40 4060 0000
F 91 40 6634 1356

Corporate Office:
CIN: L85110KA1981PLC013115
44, Infosys Avenue
Electronics City, Hosur Road
Bengaluru 560 100, India
T 91 80 2852 0261
F 91 80 2852 0362
askus@infosys.com
www.infosys.com

FORM-V

ENVIRONMENTAL STATEMENT

Environmental Statement for the financial year ending with 31st March 2021

PART-A

*i. Name and address of the owner/
occupier of the industry*

Infosys Limited
Survey Nos. 50, (part), 51, 54, 49, 44 & 45
(part), 41 (part), 36 (part), 58 (part), 60
(part), Pocharam Village
Ghatkesar Mandal, Medchal – Malkajgiri –
District – 500 088, Telangana
Board No: +91-40-40600000

operation or process.

:IT/ITES

ii. Industry category Primary-(STC Code) Secondary- (STC Code):N.A

iii. Production category . Units.

: Software Development

iv. Year of establishment

2010

v. Date of the last environmental statement submitted. June, 2020

PART-B

Water and Raw Material Consumption:

i. Water consumption in m3/d

Process: N.A

Cooling: 18 M3 /d

Domestic: 260 M3 /d

Name of Products	Process water consumption per unit of products output	
	During the previous financial year	During the current financial year
1.	N. A	
2.		
3.		
4.		
5.		
6.		

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 **Software Industry**
(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	pH :	-	7.37	pH :		7.37	No variation from Standard
	BOD :	Kg/day	1.03	BOD :	mg/L	3.92	
	COD :	Kg/day	5.19	COD :	mg/L	19.75	
	Suspended Solids :	Kg/day	0.98	Suspended Solids :	mg/L	3.73	
	Residual Chlorine :	Kg/day	0.26	Residual Chlorine :	mg/L	1.00	
	Ammonical Nitrogen :	Kg/day	0.31	Ammonical Nitrogen :	mg/L	1.19	
(b) Air	NOx:	Kg/day	2.95	NOx:	mg/NM3	55.34	No variation from Standard
	PM:	Kg/day	4.03	PM:	mg/NM3	75.57	
	SOx:	Kg/day	8.16	SOx:	mg/NM3	153.13	

PART-D

HAZARDOUS WASTES

(as specified under Hazardous Wastes (Management & Handling Rules, 2016).

	Hazardous Waste		Total Quantity	
			During the previous Financial year (2019-20)	During the current financial year (2020-21)
1. From Process	Chemical cans /containers	-	119 Kgs	-
	Dry Batteries	-	12 Kgs	-
	DG filters:	175No's/A	40 No.s(120 Kgs)	-
	Oil Soaked Cotton waste:	25Kgs/A	14 Kgs	-
	Paint cans/ containers:	300No's/A	258 No's (498.6 Kgs)	-
	Used oil from DG set	4.5kL/A	1.38 kL	2.76 kL
				NA
2.From Pollution Control Facilities			NA	NA

PART - E

SOLID WASTES:

	Type of Solid Wastes	Total Quantity	
		During the previous Financial year	During the current financial year
a. From process	Food waste:	345656.25 Kgs	28120.00 Kgs
	Garden waste:	960484.64 Kgs	846828.89 Kgs
	Glass:	2835 Kgs	3955.00 Kgs
	Kitchen Used Oil:	0.99 KL	0.097 KL
	Metal waste:	30000 Kgs	15553 Kgs
	Mixed garbage:	85176.25 Kgs	14764.55 Kgs
	Paper and cardboard waste:	335 Kgs	-
	Paper	-	530.00 kgs
	cardboard waste:	-	3395 Kgs
	Shredded Paper:	-	430.00 kgs
	Plastic waste:	2580 Kgs	5895 Kgs
	Thermocol:	1296 Kgs	135 Kgs
	Wood waste	25146 Kgs	10440 Kgs
	Sugar Cane Wastage:	19251 Kgs	-
	Coconut Wastage:	134119.05 Kgs	-
Coffee and Tea Wastage:	15858.39 Kgs	1003.70 Kgs	
b. From Pollution Control Facility	STP Sludge:	512480.00 Kgs	101600.00Kgs

c. Quantity recycled or re-utilized within the unit.		<ul style="list-style-type: none"> • Food waste is treated inhouse through biogas and OWC • STP sludge is treated through solar sludge drying bed • Garden waste is utilized for mulching • All other solid wastes are disposed to the registered recyclers. 	<ul style="list-style-type: none"> • Food waste is treated inhouse through biogas and OWC • STP sludge is treated through solar sludge drying bed • Garden waste is utilized for mulching • All other solid wastes are disposed to the registered recyclers.
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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. The segregated waste is routed to waste yard and disposal to authorized recyclers. Also, the color 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

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. We have dedicated staff to manage the Effluents, Emissions, Hazardous/Bio-medical/Solid waste and all contractual are trained on waste management.

Bio-Medical Waste: Bio-medical waste, sanitary waste and Covid-19 related tissue papers, masks & gloves are sent to registered TSPCB authorized incinerator. Also, ensure appropriate BMW segregation, we conduct trainings to the identified BMW handles on regular intervals.

Waste Category	Total Quantity	
	During the previous Financial year (2019-20)	During the current financial year (2020-21)
Biomedical including sanitary waste	2900.53Kgs	2245.40 Kgs

Hazardous waste: All the hazardous waste generated are segregated the disposed through authorized recyclers for recycling.

Soil contamination and pollution prevention measures: All waste are stored at dedicated storage areas, provided with secondary containment which are leachate proof.

On/off-site management procedure: Waste generated is segregated at sources and disposal through authorized recyclers. Bio-medical waste, Oiled filters, cotton waste & paint waste are sent to KSPCB authorized recycler for incineration with control mechanisms in place. The process of waste segregation at the sources is in place. The Segregated waste is routed to waste yard and disposed to authorized recyclers. Following are the type of waste and disposal methodology.

Non-Hazardous waste: Waste like papers, plastic, metal, wood, Thermocol and glass are segregated disposed to registered recyclers/ re-processors for further process.

E-waste: E-waste is disposal only through TSPCB/CPCB authorized vendors. To collect the e-waste generated, bins with grey color code is placed at prominent locations, the employees and contractual staff can put the e-waste into this bin, which prevents e-waste mixing with general waste.

Waste Category	Total Quantity	
	During the previous Financial year (2019-20)	During the current financial year (2020-21)
E waste sent to recycler:	14237.3 Kgs	-

Batteries: The generated batteries are stored in designated place for disposal. These batteries are disposal to authorized recycler. Further the batteries are dismantled by vendor partner to separate spent sulphuric acid, plastic/metal plates, and secondary lead alloys. Lead alloy is smelted and made as fresh lead ingots.

Food Waste: OWC-Organic Waste Converter (OWC) of 2tons per day capacity is installed and is used convert organic waste into homogenized odor-free output through Bio Mechanical process and is converted into COMPOST within two weeks which can used as manure for landscape. Also, our Garden waste has been mixed along with food waste and fed into OWC.

We have our own Biogas plant for 2tons capacity wherein the 150 to 200 kgs/day of Food waste is fed into digester. The technology used here is "Dry digestion" where there is minimal/no used of water compared to any conventional system. The produced gas is used daily for the cooking needs in the kitchen. Also, we have taken an initiative to enhance the process for proper segregation & disposal of Food waste.

Hazardous waste	
Used Oil	Sent to TSPCB registered vendor Indian Tarcol, Hyderabad.
Oil filters & Oil soaked cotton	Sent to TSPCB registered vendor Earth Sense, Hyderabad
E-Waste	Sent to TSPCB approved vendor Earth Sense, Hyderabad
Bio-medical	Sent to TSPCB approved vendor GJ Multiclave, Hyderabad

waste	
Discarded containers	Sent to TSPCB approved vendor Earth sense, Hyderabad
Non- Hazardous waste	
paper, plastic, wood etc.	Segregated at source and disposed to registered recyclers / re processors.
Mixed waste	Sent to municipal corporation
STP sludge	Used as manure for trees and plants inside the campus
Garden waste	Used for mulching and composting
Food waste	Used for biogas production & composting. Balance sent to piggeries

PART-G

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

- Infosys Hydsez campus is having 1685 KLD Sewage treatment plant (MBR-1100 KLD & Conventional treatment system – 400 KLD Sequential Batch Reactor-SBR-185 KLD) & 50 KLD LETP. STP Outlet samples are tested regularly, and monthly reports are submitted to TSPCB
- Six DG sets having capacity of 14,000 kVA is operational, stack emission and noise levels are tested and reported to TSPCB on a monthly basis.
- Installed Solar Plant capacity of Rooftop 1124 kW & Ground mount 6.63 MW. 54% of power used in our campus is from renewable sources
- Taken various measures in the campus to ensure optimum use of power and water
- Single use plastics are banned in the campus.
- Eighteen Electrical vehicles procured and used for employee movement. Battery operated Golf carts, goods carts, Electric bikes and Electric auto trolley are used in the campus.
- To create environment related awareness among employees, various activities were conducted.
- Campus declared as non-smoking zone.
- Campus has 9 lakes which can store up to 10 crore liters of rainwater
- Campus has 9 No.s injection wells
- Planted 1.67 lakh saplings in campus so far.

PART - H

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

Infosys committed to reduce 5% of absolute electricity consumption of FY2021 by March 31, 2022

Infosys committed to reduce 5% of absolute water consumption of FY2021 by March 31, 2022

Infosys committed to phase out R22 gas by March 22

Infosys planning for plantation of 5,000 saplings for the FY 2021-22.

PART-I

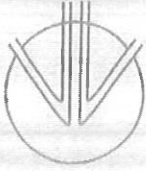
MISCELLANEOUS:

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

1. Water is used in Buildings, kitchens, toilets and the domestic sewage generated is recycled through Sewage Treatment Plant (Membrane Bio Reactor) and used for landscaping and HVAC chiller
2. STP sludge will be treated inhouse in solar sludge dry bed and used as manure in the campus
3. Established organic waste converter to treat canteen waste for making the compost which will be used for gardening and landscaping.
4. Established Biogas plant (2 ton/day) for converting canteen (food) waste to LPG equivalent gas.

Enclosures:

1. Copy of Test Report for Treated Sewage
2. Copy of Test report for Air Quality & Noise



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AN ISO 9001-2015
and
OHSAS
CERTIFIED COMPANY

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Web : www.vitrolabs.net, www.vitrolabsindia.com

(Recognized by the Ministry of Environment & Forest, GOI)

TEST CERTIFICATE

M/s. Infosys Limited,
S.No 41, 50, pocharam Village,
Sanskruithi Township (Post),
Ghatkesar Mandal, R.R.Dist,
Hyderabad-500088.

Ref : VL/ITL/AAQ/MAR/02/2021

Date : 19.03.2021

TEST RESULTS

Sample Details	AMBIENT AIR QUALITY
Location Details	NEAR STP
Date of Monitoring	04.03.2021
Duration	10.20 A.M – 6.20 P.M

S.No	Parameters	Units	Method	Result	Limits
1.	Particulate Matter – PM ₁₀	µg/m ³	USEPA (Gravimetric)	30	100
2.	Particulate Matter – PM _{2.5}	µg/m ³	USEPA (Gravimetric)	16	80
3.	Sulphur Dioxide Conc.	µg/m ³	IS 5182 (Part II)	11	80
4.	Oxides of Nitrogen	µg/m ³	IS 5182 (Part VI)	13	80
5.	Carbon Monoxide Conc.	µg/m ³	IS 5182 (Part X)	710	2000
6.	Ozone (O ₃)	µg/m ³	APHA	11	100
7.	Lead Conc (Pb)	µg/m ³	APHA	0.08	1.0
8.	Ammonia Conc (NH ₃)	µg/m ³	APHA	12	400
9.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part-XI)	<0.05	05
10.	Benzo(a) Pyrene	ng/m ³	APHA	<0.01	01
11.	Arsenic (As) Conc	ng/m ³	APHA	<0.01	06
12.	Nickel(Ni)	ng/m ³	APHA	<0.01	20

Note : The above parameters are carried out as per IS : 5182 / APHA methods, and the results are within PCB limits and National AAQ Standards.

APHA : AMERICAN PUBLIC HEALTH ASSOCIATION

INSTRUMENT DETAILS

1	Instrument	Fine Particulate Sampler
2	Instrument Make	Envirotech Instruments Pvt Ltd
3	Model & Sl.No	APM 460 (Sl.No. 473)
4	Date of Calibration	06.12.2019
5	Next Calibration Due Date	05.12.2020

Authorised Signatory

Environmental Studies like Compressed Air Quality Testing, Work Zone, Indoor Air Quality, Gravimetric Dust Sampling, Stack, AAQ Monitoring, Waste Water, Solid & Hazardous Waste Analysis and Analytical Services like Water, Ores, Minerals, Alloys, Petroleum Products, Food Materials, Soils, Poultry Feeds Etc.

Environmental Consultants & Analytical Chemists



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AN ISO 9001-2015
and
OHSAS
CERTIFIED COMPANY

2-2-647/A/3, 3rd Floor, Shivam Road, Hyderabad-500 013.
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Web : www.vitrolabs.net, www.vitrolabsindia.com

(Recognized by the Ministry of Environment & Forest, GOI)

TEST CERTIFICATE

EFFLUENT ANALYSIS REPORT

Our Ref:	42/ENV	Issued To:
Reporting Date:	16.03.2021	M/s. Infosys Limited,
Collected On:	04.03.2021	S.No 41, 50, pocharam Village,
Sample Particulars:	STP OUTLET WATER	Sanskruithi Township (Post),
		Ghatkesar Mandal, R.R.Dist.
		Hyderabad-500088

TEST RESULTS

Sl.No	Parameters	Units	Result	Standards
01	pH	----	7.58	6.0-9.0
02	Oil & Grease	(mg/l)	<1.00	10 mg/l
03	Bio Chemical Oxygen Demand(BOD)	(mg/l)	05	<10 mg/l
04	Chemical Oxygen Demand(COD)	(mg/l)	26	250 mg/l
05	Ammopical Nitrogen	(mg/l)	1.50	50 mg/l
06	Arsenic	(mg/l)	BDL	0.2 mg/l
07	Mercury	(mg/l)	BDL	0.01 mg/l
08	Lead	(mg/l)	0.01	1.0 mg/l
09	Cadmium	(mg/l)	0.01	1.0 mg/l
10	Hexavalent Chromium	mg/l	BDL	2.0 mg/l
11	Total Chromium	(mg/l)	0.01	2.0 mg/l
12	Zinc	(mg/l)	0.37	15 mg/l
13	Copper	(mg/l)	0.01	3.0 mg/l
14	Turbidity NTU	NTU	9.60	≤2.0 NTU
15	Ecoil(MPN count/100ml)	(cfu/100ml)	Absent	None
16	Faecal Coliform	(cfu/100ml)	13	<100
17	Residual Chlorine	(mg/l)	1.0	Preferably in the range of 1 mg/l – 3 mg/l
18	Total Nitrogen	(mg/l)	1.7	--
19	Total Dissolved Solids	(mg/l)	441	--
20	Total Suspended Solids	(mg/l)	13	20

BDL – INDICATES: Below Detectable Limit < 0.01

Note: The above parameters are tested as per IS: 3025 methods and the results are within the norms


Authorised Signatory

Environmental Studies like Compressed Air Quality Testing, Work Zone, Indoor Air Quality, Gravimetric Dust Sampling, Stack, AAQ Monitoring, Waste Water, Solid & Hazardous Waste Analysis and Analytical Services like Water, Ores, Minerals, Alloys, Petroleum Products, Food Materials, Soils, Poultry Feeds Etc.

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M/s. Infosys Limited,
S.No 41, 50, pocharam Village,
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Ghatkesar Mandal, R.R.Dist,
Hyderabad-500088.

Ref : VL/ITL/AAQ/MAR/05/2021

Date : 19.03.2021

Stack Details : Stack attached to the 2000 KVA -1 DG Set

TEST RESULTS

S.no	Parameters	Units	Values
1	Date of Sampling	-----	08.03.2021
2	Time of Sampling	-----	10.00 AM
3	C/s Area of the Duct	m ²	0.866
4	Ambient Temperature	°C	29
5	Flue Gas Temperature	°C	311
6	Velocity of Flue Gas	(m/sec)	12.16
7	Flue Gas Flow Rate	(m ³ /sec)	10.530


EMISSION DATA

SL no	Parameter	units	Result	limits as per CFO
1	Suspended Particulate matter	mg/Nm ³	76	115
SL no	Parameter	units	Result	Limits as per GSR 489 E Notification
2	Oxides of Nitrogen concentration	ppmv	47	710
3	Carbon Monoxide	mg/Nm ³	13.5	150
4	Sulphur dioxide concentration	mg/Nm ³	147	Not Specified
5	Hydrocarbons	ppm	10	Not Specified

INSTRUMENT DETAILS

1.	INSTRUMENT	STACK MONITORING KIT
2.	MAKE	ECOTECH INSTRUMENTS
3.	MODEL / S.NO	ESS 100 / 15 - D- 126
4.	CALIBRATED ON	10.08.2020
5.	NEXT CALIBRATION DUE ON	09.06.2021

Note : The above parameters are carried out as per IS : 11255 methods, and the results are within PCB limits


Authorized Signatory

Environmental Studies like Compressed Air Quality Testing, Work Zone, Indoor Air Quality, Gravimetric Dust Sampling, Stack, AAQ Monitoring, Waste Water, Solid & Hazardous Waste Analysis and Analytical Services like Water, Ores, Minerals, Alloys, Petroleum Products, Food Materials, Soils, Poultry Feeds Etc.

Environmental Consultants & Analytical Chemists