

# KSPCB/FORM-V/2023-24/01

26th September 2024

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

Dear Sir/Madam,

# Subject: Submission of Environmental Statement (Form-V) for Main Campus, Bangalore

With reference to above subject, we hereby submitting the Environmental Statement (Form-V) for the FY 2023-24 for our Infosys Limited (Main Campus) situated at Plot no 44, Hosur Road, Electronics city, Bangalore - 560100. Enclosed the copies of the same for your reference.

- 1. Form-V for Main campus location, 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

**AUTHORIZED SIGNATORY** 

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A CO: D7 G CE

INFOSYS LIMITED
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

April 2023 - March 2024



# **ANNEXURE**

# ENVIRONMENTAL STATEMENT FORM-V (See rule 14)

Environmental Statement for the financial year ending with 31st March

# PART-A

i. Name and address of the owner:	M/s Infosys Limited
occupier of the industry	Campus, Plot No 44
	Electronic City, Hosur Road
	Bangalore – 560100
Operation or process.	Software Development
ii. Industry category Primary-(STC Code)	Red
Secondary- (STC Code)	
iii. Production category. Units.	Software Development
iv. Year of establishment	1994
v. Date of the last environmental statement	27.09.2023
submitted.	

# PART-B

Water and Raw Material Consumption:

i. Water consumption in m3/d

Process: NA

Cooling: 69.45 m<sup>3</sup>/day

Domestic: 589.76 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 quality

Name of Products	Process water consumption per unit of products output		
	During the previous financial year   During the current financial year		
1.			
2.			



# ii. Raw material consumption

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

<sup>\*</sup> 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)

# (a) Water

Pollutants	Quantity of Pollutants discharged (Kg/day)	Concentration of Pollutants discharged (Mass/Volume)	Percentage of variation from prescribed Standards with reasons.
рН	7.53	7.53	
BOD (mg/l)	1.04	3.5	
COD (mg/l)	1.68	5.7	No Variations from
Total Suspended Solids (mg/l)	0.30	1	prescribed parameters &
NH4-N (mg/l)	0.07	0.25	limits
Fecal Coliform (MPN/100 ml)	12.04	40.5	
Total Nitrogen (mg/l)	0.30	1	

# (b) Air

Pollutants	Quantity of Pollutants discharged (Kg/day)	Concentration of Pollutants discharged (Mass/Volume)	Percentage of variation from prescribed Standards with reasons.
PM (mg/Nm³)	2.2626	47.54	
NOx (mg/Nm <sup>3</sup> )	23.9333	502.97	No Variations from
Carbon Monoxide (mg/Nm³)	0.2076	94.06	prescribed parameters &
Non methyl Hydrocarbon (mg/Nm³)	0.0027	1.00	limits

Note: The above mentioned results are from the existing DG sets as specified in the Air Consent, derived by taking cumulative average.



# PART-D

# **HAZARDOUS WASTES**

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

_		Quantity	
Hazardous W	astes	During the current financial year (FY 2022-23)	During the current financial year (FY 2023-24)
1. Used oil		9.29 MT/A	9.14 MT/A
2. Oil-soaked cotto DG oil filters	on waste &	0.61 MT	0.50 MT
3. Discarded Chem Containers	nical/Paint	3.01 MT/A	3.03 MT/A
4. Paint residue		Nil	0.74 MT

# PART - E

# **SOLID WASTES:**

	Total Qua	ntity (Kg)
Solid Wastes	During the current Financial year (FY 2022-23)	During the current Financial year (FY 2023-24)
a. From process	Food waste: 130997.20 Kgs Garden waste: 821140 Kgs Kitchen Oil: 202 L Solid Waste: 352483 Kgs	Food waste: 240507 Kgs Garden waste: 700356 Kgs Kitchen Oil: 211 L Solid Waste: 352483 Kgs
b. From Pollution Control Sources	Sludge from STP: 52950 Kgs	Sludge from STP: 271140 Kgs
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 disposed to the registered recyclers.  Part of garden waste is treated through Vermicomposting Unit.  Unsorted dry waste (Mixed waste) is daily picked up & transported to the	Food waste is treated in house through biogas and OWC. STP sludge is treated through sludge solar drying bed All other solid wastes are disposed to the registered recyclers. Part of garden waste is treated through Vermicomposting Unit. Unsorted dry waste (Mixed waste) is daily picked up & transported to the



	identified Service Provider's material recovery facility where it will be further segregated and transported to recyclers and/or other appropriate processing facilities.	identified Service Provider's material recovery facility where it will be further segregated and transported to recyclers and/or other appropriate processing facilities.
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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 disposed to authorized recyclers. Also, the 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

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 and sanitary waste generated in the campus will be taken out by an agency authorized by KSPCB. Also, to ensure appropriate BMW segregation, we conduct trainings to the identified BMW handlers on regular intervals. Tissue papers, masks & gloves are sent to registered KSPCB authorized incinerator.

	Total Quantity (Kgs)			
Bio-medical waste Category	During the current Financial year (FY 2022-23)	During the current Financial year (FY 2023-24)	Concentration	Disposal Practice
Yellow Bag	74.30	52.65		The waste is
Blue Bag	22.05	23.32		disposed to
Red Bag	46.76	64.09	Solid	authorized KSPCB
White Bag	44.34	56.06		incinerator within 48 hrs. of generation.

Hazardous waste: All the hazardous wastes generated are segregated and disposed through authorized recyclers for recycling and NO waste is dumped underground.



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

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

Waste Type	Disposal frequency	Disposed Practice	
Used oil	As and when generated	Recycle & Reuse	
E waste	As and when generated	Recycling	
Oil soaked cotton waste	As and when generated	Incineration	
UPS batteries	As and when generated		
DG batteries	As and when generated	Recycling	
Dry Batteries (AA, AAA cells)	As and when generated		
DG filters – Oil	As and when generated	Incineration	
Toiletries waste, Gloves, Masks & other PPE's	Daily	Incineration	
Plastic & Metal Paint cans/ containers	As and when generated	Daniela/Danie	
Housekeeping Chemical containers/ cans	As and when generated	Recycle/Reuse	
Biomedical waste	Daily	Incineration	
Sanitary waste	Daily	memeration	

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

	Total Quantity (Kg)			
Solid Wastes	During the current Financial year (FY 2022-23)	During the current Financial year (FY 2023-24)		
b. From process	Food waste: 130997.20 Kgs Garden waste: 821140 Kgs Kitchen Oil: 202 L Solid Waste: 352483 Kgs	Food waste: 240507.80 Kgs Garden waste: 700356 Kgs Kitchen Oil: 211 L Solid Waste: 352483 Kgs		
b. From Pollution Control Sources	Sludge from STP: 52950 KG's	Sludge from STP: 271140 Kg's		
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 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 disposed to the registered recyclers.		



Part of garden waste is treated	Part of garden waste is treated
through Vermicomposting Unit.	through Vermicomposting Unit.
Unsorted dry waste (Mixed waste)	Unsorted dry waste (Mixed waste)
is daily picked up & transported to	is daily picked up & transported to
the identified Service Provider's	the identified Service Provider's
material recovery facility where it	material recovery facility where it
will be further segregated and	will be further segregated and
transported to recyclers and/or	transported to recyclers and/or
other appropriate processing	other appropriate processing
facilities.	facilities.

**E-waste**: E-waste is disposed only through KSPCB/CPCB authorized vendors. To collect the e-waste generated, bins are 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.

	Total Quantity (MT/A)			
Waste category	During the current Financial year (FY 2022-23)	During the current Financial year (FY 2023-24)	Concentration	Disposal Practice
E-waste	182.94 MT	78.81 MT	Solid	The waste is disposed to authorized KSPCB recycler.
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

**Batteries:** The generated batteries are stored in designated place for disposal. These batteries are disposed 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.

Waste category		During the current Financial year (FY 2023-24)	Concentration	Disposal Practice
Batteries	24.96 MT (UPS batteries) NIL (Dry Batteries)	32.96 MT (UPS batteries) NIL (Dry Batteries)	Solid	The waste is disposed to authorized KSPCB recycler.

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



We have our own Biogas plant of 1.5 tons capacity wherein the generated food waste is fed into digester. The technology used here is "Dry digestion" where there is minimal/no use of water compared to any conventional system.

We have generated 17355.96 m<sup>3</sup> of gas for FY 2023-24 and the produced gas is used daily for the cooking needs in the kitchen where burners are installed. Also, we have taken an initiative to enhance the process for proper segregation & disposal of food waste. So, to improve the quality of food waste through composting and biogas, we have taken the below mentioned initiative:

Installed the screw conveyer

Also, we have introduced hydrolyzer unit in Biogas plant to store the excess food waste and have an efficient treatment of waste. This has reduced the overflow of food waste at biogas gas plant area and reduction of waste sending it to third party.

### PART-G

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

- > 95 % of energy consumed is sourced from wheeled (green power) and solar energy sources thereby reducing the GHG emissions.
- > Rooftop solar system installed. The campus is using solar energy generated at our solar plant as a major source.
- > Low Sulphur diesel is used for DG sets and boiler operation.
- > 18 Nos. of battery-operated Golf Carts are used for movement during visits
- > Material movement inside campus is through battery operated goods carrier
- > Biogas plant is used to manage our food waste, which is operated under "Dry Digestion" where there is minimal/no use of water.
- > Organic waste converter is used to treat the food waste generated and the compost produced as output is used as manure for landscape.
- 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.
- We ensure 100% utilization of STP treated water for flushing, HVAC, landscaping, Solar panel cleaning & others (i.e., Vehicle washing, MLPL cleaning)
- All categories of Hazardous & Non-Hazardous wastes are disposed to only authorized vendors, who further ensures the wastes treatment happens in a scientific method.
- > Rainwater harvesting system implemented to reduced consumption of fresh water.
- > Ground water recharge happens through recharge bores and sink wells.



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

# Significant measures to conserve Power

- 1) Usage of Renewable Energy as a primary source of consumption
  - > 95% of the total energy is sourced through Renewable sources against the target of 60%
- 2) Operational control
  - Consolidation of Datacenter and Server rooms
  - UPS optimization

# Significant measures to conserve Water

1) Rainwater harvesting

# **Existing structures:**

- Sink wells | 12 Nos
- Injection wells | 42 Nos
- Rooftop collection system | 6 Nos

# Recent projects

- Construction of UGR
- Extension of roof top for rainwater harvesting.
- 3) Operational control
  - Water inlets are turned off whenever not necessary and at Non-operational buildings
  - > Fixing of low flow aerator taps.
  - > Augmentation of drip irrigation system.
- 4) 100% of the wastewater generated through our business operations within our campuses are reused

### PART-I

# **MISCELLANEOUS:**

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

Environmental Management System is implemented and certified as per ISO14001:2015 standards. This management system is the prime vehicle for us to implement environmental best practices in all our activities, products and services. We have collaborated with multiple stakeholders and devised appropriate interventions for reducing carbon footprint, energy and water and resource consumption. We have established employee participation and consultation channels to understand employee and community expectations. More details are given below on initiatives implemented towards resource conservation, prevention of pollution, waste management, biodiversity, green buildings etc.



- 1) Identify and replacement the ozone-depleting refrigerants in a phased manner
  - Achieved 95% replacement target as on 31st March 2024.
- 2) Provision of EV charging stations at campus.
  - > 52 slots for four wheelers and 85 slots for two wheelers.
- 3) Excellence in Water Management.
  - ➤ The campus has been certified as Water Positive by CII after successful completion of scope 1, 2 and 3studies as per NITI Aayog.
- 4) Reduction in freshwater consumption for secondary purpose.
  - > Procurement of greywater from external agencies to meet freshwater demand for secondary purposes.
- 5) Other initiatives
  - > Operation of bio-gas plant to manage the food waste.
  - > Vermicomposting pit
- 6) We carry out environmental quality monitoring for Emissions and effluents as per the PCB & CPCB standards.
- 7) We are enabling processes for improving our system for monitoring water and wastewater recycling at our campus with a view of achieving long term sustainability.
- 8) Regular trainings are conducted by external vendor partner on proper usage and handling of chemicals.
- 9) More numbers of trees and plants are planted across campus. Inhouse plants (i.e., Shrubs, Herbs, Ground Covers, flowering plants, and creepers etc.) have been planted.
- 10) We are ensuring 100% segregation of waste at source.
- 11) We continue to ensure the Color coding for different type of waste which is segregating at the building level
- 12) We have consistently ensured that we reduce, reuse and recycle & dispose the waste responsibly.
- 13) Hazardous wastes are stored and disposed to authorized recyclers only, in adherence to applicable legislation.
- 14) We use green sealed chemicals for our housekeeping purpose.

