

KSPCB/FORM-V/2018-19/03

26th June, 2019

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 2018-19 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

Bhawesh Kumar

BHAWESH KUMAR

AVP - REGIONAL HEAD - FACILITIES



Form - V

Environmental Statement

April 2018 - March 2019

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>	17.09.2018

PART-B

Water and Raw Material Consumption:

i. Water consumption in m³/d

Process: NA

Cooling: NA

Domestic: Approximately. 23 m³/day

Enclosures:

- 1) Copy of Test report for D.G set emissions
- 2) Copy of Test report for Ambient air 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	1.1 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 (Kg)	
		During the current Financial year (FY 2017-18)	During the current Financial year (FY 2018-19)
1. Used Oil	1.3 KL/A	0.37 KL	0.720 KL
2. Oil soaked cotton waste	0.05 MT/A	0.002 MT	0.004 MT
3. DG oil filters	80 No's/A	34 No's	34 No's
4. Batteries		5 No's	NIL
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)	
	During the Previous Financial year (FY 2017-18)	During the current Financial year (FY 2018-19)
a. From process	Food waste: 48,650 Kgs/A STP Sludge waste: 11,154 Kgs/A Other Solid wastes: Centralized collection & disposal from main E-city campus	Food waste: 42,871 Kgs/A STP Sludge waste: 10,378 Kgs/A 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 30 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
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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. 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

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 90kwp 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
- 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.
- Installation of solar panels at M&C roof top.