

KSPCB/FORM-V/2021-22/01

23<sup>rd</sup> September 2022

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 2021-22 for our Infosys Main Campus at Electronic city, Bangalore. Enclosed the copies of the same for your reference.

1. Form-V for Main campus, 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



INFOSYS LIMITED

CIN: L85110KA1981PLC013115

44, Infosys Avenue  
Electronics City, Hosur Road  
Bengaluru 560 100, India

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**Form - V**

**Environmental Statement**

April 2021 - March 2022



## ANNEXURE

### ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

*Environmental Statement for the financial year ending with 31<sup>st</sup> March*

#### PART-A

|                                                                   |                                                                                        |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| i. Name and address of the owner:<br>occupier of the industry     | M/s Infosys Limited<br>Plot No 44<br>Electronic City, Hosur Road<br>Bangalore – 560100 |
| Operation or process.                                             | Software Development                                                                   |
| ii. Industry category Primary-(STC Code)<br>Secondary- (STC Code) | Red category                                                                           |
| iii. Production category. Units.                                  | Software Development                                                                   |
| iv. Year of establishment                                         | 1994                                                                                   |
| v. Date of the last environmental statement<br>submitted.         | 23.08.2021                                                                             |

#### PART-B

*Water and Raw Material Consumption:*

i. Water consumption in m<sup>3</sup>/d

Process: NA

Cooling: 14 m<sup>3</sup>/day

Domestic: 375 m<sup>3</sup>/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 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)

(a) Water

| Pollutants                    | Quantity of Pollutants discharged (Kg/day) | Concentration of Pollutants discharged (Mass/Volume) | Percentage of variation from prescribed Standards with reasons. |
|-------------------------------|--------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|
| pH                            | 8.18                                       | 8.18                                                 | No variations from prescribed parameters & limits               |
| BOD (mg/l)                    | 0.38                                       | 2.50                                                 |                                                                 |
| COD (mg/l)                    | 0.94                                       | 6.10                                                 |                                                                 |
| Total Suspended Solids (mg/l) | 0.87                                       | 5.67                                                 |                                                                 |
| NH <sub>4</sub> -N (mg/l)     | 9.15                                       | 59.47                                                |                                                                 |
| Fecal Coliform (MPN/100 ml)   | 5.94                                       | 38.60                                                |                                                                 |
| Total Nitrogen (mg/l)         | 0.46                                       | 3.00                                                 |                                                                 |

(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/Nm <sup>3</sup> )                     | 1.96                                       | 45.78                                                | No variations from prescribed parameters & limits               |
| NO <sub>x</sub> (mg/Nm <sup>3</sup> )        | 19.51                                      | 456.12                                               |                                                                 |
| Carbon Monoxide (mg/Nm <sup>3</sup> )        | 0.27                                       | 93.63                                                |                                                                 |
| Non methyl Hydrocarbon (mg/Nm <sup>3</sup> ) | 0.003                                      | 1.00                                                 |                                                                 |



**PART-D**

**HAZARDOUS WASTES**

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

| Hazardous Wastes                       | Total Quantity                                  |                                                |
|----------------------------------------|-------------------------------------------------|------------------------------------------------|
|                                        | During the previous financial year (FY 2020-21) | During the current financial year (FY 2021-22) |
| 1. Used oil                            | 10.6 KL                                         | 8.97 KL                                        |
| 2. Oil-soaked cotton waste             | 0.13 MT                                         | 0.112 MT                                       |
| 3. DG oil filters                      | 0.42 MT                                         | 0.49 MT                                        |
| 4. Discarded Chemical/Paint Containers | 2.491 MT/A                                      | 2.23 MT/A                                      |
| 5. Paint residue                       | 4.44 MT/A                                       | 1.25 MT/A                                      |

**PART – E**

**SOLID WASTES:**

| Solid Wastes                                         | Total Quantity (Kg)                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      | During the previous Financial year (FY 2020-21)                                                                                                                                                                                                                                                                              | During the current Financial year (FY 2021-22)                                                                                                                                                                                                                                                                               |
| a. From process                                      | Food waste: 43196.72 Kgs<br>Garden waste: 659835 Kgs<br>Kitchen Oil: 0.31 KL<br>Solid Waste: 335342 Kgs                                                                                                                                                                                                                      | Food waste: 50656 Kgs<br>Garden waste: 621283 Kgs<br>Kitchen Oil: 0.134 KL<br>Solid Waste: 251876 Kgs                                                                                                                                                                                                                        |
| b. From Pollution Control Sources                    | Sludge from STP: NIL                                                                                                                                                                                                                                                                                                         | Sludge from STP: NIL                                                                                                                                                                                                                                                                                                         |
| c. Quantity recycled or re-Utilized within the unit. | Food waste is treated in house through biogas and OWC.<br>STP sludge is treated through sludge solar drying bed<br>All other solid wastes are disposed to the registered recyclers.<br>Part of garden waste is treated through Vermicomposting Unit.<br>Unsorted dry waste (Mixed waste) is daily picked up & transported to | Food waste is treated in house through biogas and OWC.<br>STP sludge is treated through sludge solar drying bed<br>All other solid wastes are disposed to the registered recyclers.<br>Part of garden waste is treated through Vermicomposting Unit.<br>Unsorted dry waste (Mixed waste) is daily picked up & transported to |



|  |                                                                                                                                                                                         |                                                                                                                                                                                         |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | the identified Service Provider's material recovery facility at Jigani where it will be further segregated and transported to recyclers and/or other appropriate processing facilities. | the identified Service Provider's material recovery facility at Jigani where it will be further segregated and transported to recyclers and/or other appropriate processing facilities. |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **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
- 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 and sanitary waste generated in the campus will be taken out by an agency authorized by PCB. Also, to ensure appropriate BMW segregation, we conduct trainings to the identified BMW handlers on regular intervals.

Covid-19 related tissue papers, masks & gloves are sent to registered KSPCB authorized incinerator.

| Bio-medical waste Category | Total Quantity                                  |                                                | Concentration | Disposal Practice                                                                   |
|----------------------------|-------------------------------------------------|------------------------------------------------|---------------|-------------------------------------------------------------------------------------|
|                            | During the previous Financial year (FY 2020-21) | During the current Financial year (FY 2021-22) |               |                                                                                     |
| Yellow Bag                 | 26.315 Kgs                                      | 109.106 Kgs                                    | Solid         | The waste is disposed to authorized KSPCB incinerator within 48 hrs. of generation. |
| Blue Bag                   | 9.457 Kgs                                       | 42.111 Kgs                                     |               |                                                                                     |
| Red Bag                    | 20.355 Kgs                                      | 107.805 Kgs                                    |               |                                                                                     |
| White Bag                  | 18.934 Kgs                                      | 51.698 Kgs                                     |               |                                                                                     |
| Sanitary Waste             | 69.200 Kgs                                      | Nil Kgs                                        |               |                                                                                     |
| Covid-19 waste             | 13065.70 Kgs                                    | 19220 Kgs                                      |               |                                                                                     |



**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 wastes are 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 recycler for incineration 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 recyclers. 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 | Dismantling & Recycling |
| Cotton waste                                                              | As and when generated | Recycling               |
| UPS batteries                                                             | As and when generated | Recycling               |
| DG batteries                                                              | As and when generated |                         |
| Dry Batteries (AA, AAA cells)                                             | As and when generated |                         |
| DG filters – Oil & Air                                                    | As and when generated | Incineration            |
| Toiletries waste, Gloves, Masks & other PPE's used during COVID-19 period | Daily                 | Incineration            |
| Plastic & Metal Paint cans/ containers                                    | As and when generated | Recycle/Reuse           |
| Housekeeping Chemical containers/ cans                                    | As and when generated |                         |
| Biomedical waste                                                          | Daily                 | Incineration            |
| Sanitary waste                                                            | Daily                 |                         |

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

| Solid Wastes                      | Total Quantity                                                                                          |                                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                   | During the previous Financial year (FY 2020-21)                                                         | During the current Financial year (FY 2021-22)                                                        |
| b. From process                   | Food waste: 60221.72 Kgs<br>Garden waste: 659835 Kgs<br>Kitchen Oil: 0.31 KL<br>Solid Waste: 335342 Kgs | Food waste: 50656 Kgs<br>Garden waste: 621283 Kgs<br>Kitchen Oil: 0.134 KL<br>Solid Waste: 251876 Kgs |
| b. From Pollution Control Sources | Sludge from STP: NIL                                                                                    | Sludge from STP: NIL                                                                                  |



|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| c. Quantity recycled or re-Utilized within the unit. | Food waste is treated in house through biogas and OWC.<br>STP sludge is treated through sludge solar drying bed<br>All other solid wastes are disposed to the registered recyclers.<br>Part of garden waste is treated through Vermicomposting Unit.<br>Unsorted dry waste (Mixed waste) is daily picked up & transported to the identified Service Provider's material recovery facility at Jigani where it will be further segregated and transported to recyclers and/or other appropriate processing facilities. | Food waste is treated in house through biogas and OWC.<br>STP sludge is treated through sludge solar drying bed<br>All other solid wastes are disposed to the registered recyclers.<br>Part of garden waste is treated through Vermicomposting Unit.<br>Unsorted dry waste (Mixed waste) is daily picked up & transported to the identified Service Provider's material recovery facility at Jigani where it will be further segregated and transported to recyclers and/or other appropriate processing facilities. |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**E-waste:** E-waste is disposed only through KSPCB/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                                  |                                                | Concentration | Disposal Practice                                   |
|----------------|-------------------------------------------------|------------------------------------------------|---------------|-----------------------------------------------------|
|                | During the previous Financial year (FY 2020-21) | During the current Financial year (FY 2021-22) |               |                                                     |
| E-waste        | 53.2 MT                                         | 204.8 MT                                       | Solid         | The waste is disposed to authorized KSPCB recycler. |

**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 | Total Quantity                                   |                                                  | Concentration | Disposal Practice                                   |
|----------------|--------------------------------------------------|--------------------------------------------------|---------------|-----------------------------------------------------|
|                | During the previous Financial year (FY 2020-21)  | During the current Financial year (FY 2021-22)   |               |                                                     |
| Batteries      | 1413 No's (UPS batteries)<br>NIL (Dry Batteries) | 1207 No's (UPS batteries)<br>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 150 to 200 kgs/day of 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 6737.74 m<sup>3</sup> of gas for FY 2021-22 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 conveyor

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.*

- 95.70% of energy consumed is sourced from wheeled (green power) and solar energy sources thereby reducing the GHG emissions.
- 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.



## ***PART – H***

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

### **Significant measures to conserve Power**

- 1) Reduction in the absolute Energy Consumption
  - As on 31<sup>st</sup> March 2022, achieved 10.7% decrease in electricity consumption against the target of 5%.
- 2) Usage of Renewable Energy as a primary source of consumption
  - 95.70% of the total energy is sourced through Renewable sources against the target of 48.75%
- 3) Operational control
  - Consolidation of Datacenter and Server rooms
  - UPS optimization

### **Significant measures to conserve Water**

- 1) Reduction in Fresh water Consumption
  - As on 31<sup>st</sup> March 2022, the consumption was 136896 against the consumption of 139127 contributing to -1.6% decrease in consumption
- 2) Rainwater harvesting
  - Existing structures:**
    - Sink wells | 12 Nos
    - Injection wells | 42 Nos
    - Rooftop collection system | 4 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
  - Employees are accommodated in One floor, to avoid scattered sitting which leads to multiple floors occupancy
  - Fixing of low flow aerator taps.
- 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 32% against target of 20% by 31<sup>st</sup> Jan 2021
- 2) Creating bio-diversity zones inside campus
  - Creating a bio-diversity zone consisting at identified areas
  - Inclusion of plants, waterbodies, birds, butterflies, etc., to enhance the biodiversity inside the campus
- 3) Reduced mixed waste to landfill
  - Mixed waste generated in the Site is segregated and stored for further treatment / disposal
  - New vendor is identified for proper diversion of generated mixed waste. 94% of total waste generated is recycled and only 6% is diverted to scientific landfill.
- 4) Alternatives to single use plastics
  - Identified list of single use plastic materials
  - Alternative materials are identified and put-to use in place of identified plastics
  - Achieved 23%
- 5) Other initiatives
  - Proper management of bio-medical waste generated from Covid vaccination drive
  - 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) Inter transportation of Chemical/Paint containers has been stopped to main campus and the storage and disposal is happening from respective locations.
- 9) Regular trainings are conducted by external vendor partner on proper usage and handling of chemicals.
- 10) More numbers of trees and plants are planted across campus. In FY 2021-22 we have planted 60 no's trees and 27,077 no's other inhouse plants (i.e., Shrubs, Herbs, Ground Covers, flowering plants, and creepers etc.)
- 11) We are ensuring 100% segregation of waste at source.
- 12) We continue to ensure the Color coding for different type of waste which is segregating at the building level
- 13) We have consistently ensured that we reduce, reuse and recycle & dispose the waste responsibly.
- 14) Hazardous wastes are stored and disposed to authorized recyclers only, in adherence to applicable legislation.
- 15) We use green sealed chemicals for our housekeeping purpose.

