Date:

**Name of the Company:**

**Address:**

**Contact Person:**

**Phone no./Email ID:**

**Year of Establishment/Year of Commencement of Production:**

**Type of Company:** Spinning/Weaving/Knitting/ /Processing/ Garment manufacturing (RMG/Made-ups)/ any other

**While providing information, wherever required, you can attach separate sheet(s)**

**Financials:**

1. Annual turnover (in Rs. Lac) of the company for last 3 years
2. Amount spent towards Contributions to Excellence in Carbon Emissions Reduction for last 3 years

**Brief about:**

Carbon Emissions Reduction

Carbon Emissions Reduction can well be understood by understanding Carbon Foot Prints. Carbon Footprint refers to the entire amount of carbon dioxide emitted by an activity. It simply determines entire quantity of carbon dioxide emissions from a particular activity. It is measurement of the overall GHG emissions created directly and indirectly by individual are group/ product and it is expressed as a carbon dioxide equivalent (CO2e). By measuring a product's carbon footprint, one may determine the overall quantity of greenhouse gas emissions (GHG) that it produces during its entire manufacturing processes.

Working towards Excellence in Carbon Emissions Reduction means approaching and targeting to achieve Carbon neutrality and Net Zero.

Carbon neutral means that any CO2 released into the atmosphere from company’s activities is balanced by an equivalent amount being removed.

Net zero is similar in principle to carbon neutrality, but is expanded in scale. To achieve net zero means to go beyond the removal of just carbon emissions. Net zero refers to all greenhouse gases being emitted into the atmosphere, such as methane (CH4), nitrous oxide (N2O) and other hydrofluorocarbons. Net Zero means that the total greenhouse gas (GHG) emissions would be equal to the emissions removed from the atmosphere.

**DATA MAY BE TAKEN FOR THE YEAR 2023-24**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Particulars** | **Spinning** | **Weaving** | **Knitting** | **Processing** | **Garments/**  **Made-ups** |
| Installed capacity |  |  |  |  |  |
| Product-mix |  |  |  |  |  |
| Production capacity (per day) |  |  |  |  |  |
| 3 shift working (Yes/ No) |  |  |  |  |  |
| Avg. no. of days worked during 2023-24 |  |  |  |  |  |
|  |  |  |  |  |  |
| Any innovative manufacturing process(es) adopted to make processes capable of achieving minimum carbon emission. If yes, write something about that. |  |  |  |  |  |
| Technological advancements done in production processes in order to minimize carbon emission (Carbon Foot Print i.e. CFP):  (If done, please click any one or more and provide their brief details) |  |  |  |  |  |
| * save electrical/ thermal energy |  |  |  |  |  |
| * reduce pollution |  |  |  |  |  |
| * reduce waste |  |  |  |  |  |
| * reduce re-working/ stitching/ re-processing |  |  |  |  |  |
| * reduce rejection |  |  |  |  |  |
| * any other (please specify) |  |  |  |  |  |

**Annual Waste Generation (Please provide estimated values if actual is not available)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Parameters** | **Quantity** | **Remarks, if any** |
|  | Annual Textile waste (fibre/ yarn/ fabric/ garments/ madeups | …….Kgs. |  |
|  | Annual Food Waste (In Canteen & Office) | …….Kgs. |  |
|  | Annual Plastic/ Paper Waste | …….Kgs. |  |
|  | Annual Hazardous and other waste | …….Kgs. |  |

**Parameters Responsible for Carbon Emission & Carbon Foot Prints**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Parameters** | **Activity Data**  **(Q)\*\*** | **Emission Factor**  **(EF)** | **Total Carbon Foot Print (CFP) (kgCO2e/ year)** | **Remarks, if any** |
|  | Annual Electricity Consumption | …….kWh |  |  |  |
|  | Annual Petrol Consumption | …….Litres |  |  |  |
|  | Annual Diesel Consumption | …….Litres |  |  |  |
|  | Annual Coal Consumption | …….Tons |  |  |  |
|  | Annual LPG Consumption | …….Kgs. |  |  |  |
|  | Annual PNG Consumption | …….Kgs. |  |  |  |
|  | Annual CNG Consumption | …….Kgs. |  |  |  |
|  | Annual Water Consumption | …….Litres |  |  |  |
|  | Annual Waste Generation | …….Kgs. |  |  |  |
|  | Annual fuel consumption in commuting of employees, raw material transportation and finished products transportation |  |  |  |  |
|  | * Petrol | …….Litres |  |  |  |
|  | * Diesel | …….Litres |  |  |  |
|  | * CNG | …….Kgs. |  |  |  |

*\*\* Electricity consumption can be taken from electricity bills*

*Petrol/Deisel/Coal/PNG/LPG/CNG consumption can be taken from purchase bills*

*Water consumption can be taken from water bills/records*

*Waste can be taken from the records*

*Fuel consumption in commuting of employees can be taken through interview/brief questionnaire*

*Fuel consumption in transportation material can be taken from the records*

CFP (Carbon Foot Prints) = Q (Activity Data) x EF (Emission Factor)

**GENERAL INFORMATION:**

1. Does your company has any policy on Carbon Emissions Reduction/ Carbon Foot Print (CFP)? if yes, please enclose copy.
2. Does your company evaluate carbon footprints of the unit on day today basis?

If yes, please give the amount of carbon footprints generated per month?

1. Has your company implemented Environment Management System (EMS)? (Yes/No)
2. Does your company organize awareness/ training Program for staff/officers and other employees on Environment Management System? If yes, how often?
3. Does your company meet the requirements as per EPA (Environmental Protection Act)?
4. Does the company organize awareness/ training Program for staff and officers on Carbon Foot Print reduction? If yes, how often?
5. Have you installed pollution control devices in your unit?

If yes, please provide brief details.

1. What are the technologies adopted for reducing the consumption of electricity/ steam/ fuel/ any other……..?
2. Whether the unit is checking ambient air quality and stack gases?

If yes, please provide brief details

1. Do you use thermal energy? If yes, how do you conserve the same?
2. What steps have been taken to reduce Energy consumption? Please describe?
3. How much energy has been saved in the previous year?
4. Whether you are using Solar or Wind Energy/renewable energy in your company to reduce Carbon emission?
5. Total energy saved due to use of renewable energy (in previous year)
6. Provide %age share from the unconventional sources of energy.
7. Does your company use eco-friendly transportation like use of battery driven material handling equipment, use of bicycle by employees etc to reduce Carbon emission from fossil fuel.
8. Have abundant plantation of tress in the your factory premises and housing colonies to improve green cover? If yes, please enclose few snaps.
9. Brief benefits, if any, provided to community around the plant.
10. Explain in brief how company is continually making efforts to reduce negative impact on environment.
11. Is your sustainability program certified by any Agency? If so, kindly mention the same.
12. Do you bring out Sustainability Report every year or every quarter? If so, kindly attach brief details.
13. Does your company has policy on net zero initiative?
14. Does your company has set target for net zero achievement?
15. Is your “Net Zero Initiative” certified/recognized by any Agency? If so, kindly mention the same?
16. Any other information would you like to provide on Carbon Emissions Reduction.