



GITAM Deemed to be University

GITAM University is committed in reducing the carbon footprint in the campus by implementing various measures like usage of renewable energy sources, plantation and installation of solar equipment for purpose of hot water and replacing the conventional appliances with 5 star rated energy appliances, LED bulbs, Automatic sensor based equipment to save power and reduce energy consumption. The buildings are designed in such a way that natural ventilation and natural light is abundant that could aim at reducing carbon footprint.

The Carbon footprint details are as follows:

Calculation of Carbon Footprint Per Year (2022-23)

The Carbon footprint calculation can be conducted based on the stage of calculation as stated in www.carbonfootprint.com, which is the sum of electricity usage per year and transportation per year.

a. Electricity usage per year (EC 2.7)

The CO₂ emission from electricity

$$= (\text{electricity usage per year in kWh}/1000) \times 0.84$$

$$= 22,166,512 \text{ kWh}/1000) \times 0.84$$

$$= 18619 \text{ metric tons}$$

b. Transportation per year (Shuttle) (TR 5.6)

= (Number of the shuttle bus in your university x total trips for shuttle bus service each day x approximate

travel distance of a vehicle each day inside campus only (in kilometers) x 240/100) x 0.01

$$= ((0 \times 10 \times 2 \times 240)/100)) \times 0.01$$



= 0 metric tons (since battery operated vehicles are being used and NO Carbon Emissions)

c. Transportation per year (Car) (TR 5.2)

= (Number of cars entering your university x 2 x approximate travel distance of a vehicle each day inside

campus only (in kilometers) x 240/100) x 0.02

= ((800 x 2 x 1 x 240)/100) x 0.02

= 76.8 metric tons

d. Transportation per year (Motorcycle) (TR 5.3)

= (Number of motorcycle entering your university x 2 x approximate travel distance of a vehicle each day

inside campus only (in kilometers) x 240/100) x 0.01

= ((3500 x 2 x 2 x 240)/100) x 0.01

= 336 metric tons

e. Total emission per year

= total emission from electricity usage + transportation (bus, car, motorcycle)

= 18619 + 0 + 76.8 + 336

= 19031.8 metric tons

Total Carbon footprint = 19031.8 metric tons per year

