

**17.3.12 b – SDG12 Mapped with  
National Assessment and  
Accreditation Council (NAAC)  
Criteria**

**Year : 2019 – 20**

Data submitted to NAAC as Annual Quality Assurance Report (AQAR) for the AY:2019-20

**7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)**

- Replacement of Individual AC unit into URV centralised HVAC system in various Building
- Solar Street lights provided in our campus in various location
- Passive infrared Motion Sensor lights provided in Computer Science Block lab, Auditorium 1st floor Gents toilet and higher officials cabin for energy savings
- Garbage Incinerator machine installed in our campus solid waste management yard with 50kg/hr capacity reducing waste product to inert ash.
- Beema Bamboo Plants 2000Nos planted in whole campus for Co2 reduction approx. area 2 acres

**GIST from NAAC Self Study Report (SSR) - (2014 – 2019)**

**7.1.5 Waste Management steps including:**

- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Answer:

This institute is committed to follow a range of sustainable design features and practices in order to build and maintain, a green campus and to adopt "zero discharge".

**Solid Waste Management (SWM) :**

- ❖ It is practiced to convert the waste generated at the campus, by way of segregation as organic waste, recyclable waste, inert waste and converting the same into another usable form
- ❖ This Institute has received a certificate of Appreciation from "Green Services Trust" for implementing the SWM project in the campus, in an environment friendly manner and diverted 1,44,655 Kg of waste from landfill to recycling

- ❖ Every year this institute contributes waste papers towards national recycling initiative organized by ITC Ltd., (paper boards & specialty paper division) which is equivalent to saving 750 trees on an average
- ❖ The collected and segregated waste will be unloaded at the waste processing yard and processed through 15 staff called as 'Green friends'
- ❖ The waste generated at the campus will be processing as per SWM Rules 2016
- ❖ Bio-degradable waste is composted under windrow composing method
- ❖ Recyclable waste is further segregated and disposed through vendors on need basis
- ❖ Sanitary napkins waste is safely disposed using an incinerator fitted with wet scrubber for pollution control
- ❖ Food waste is fed in the bio-gas plant and is utilized for cooking purpose Several SWM training and awareness programs are conducted
- ❖ The harvested bio compost of 2000 kg (approx.) is used for gardening.

#### **Liquid Waste Management :**

- ❖ 2 nos. of sewage treatment plants (STP) of 500 KLD capacity are available
- ❖ The sewage is characterized by presence of organic, inorganic and suspended solids
- ❖ The chain of treatment is aimed to remove such pollutants from the waste water so that it can be effectively reused
- ❖ The treatment system consists of preliminary, Primary and Secondary
- ❖ The Eco-Bio Bricks helps in the attachment of bacteria in the treatment system and helps in the better removal of organic content from the wastewater
- ❖ The STP is maintained regularly
- ❖ Treated water is used for landscaping and flushing purposes
- ❖ The physical, chemical and biological characteristics of the treated water are tested to ensure the efficiency
- ❖ Some of the important parameters checked include pH, solids, Chemical oxygen demand, Biochemical oxygen demand, Nitrates, chlorides etc.,

#### **E-Waste Management :**

- ❖ E-waste and hazardous waste are handed over to the authorized processors and certificate of destruction is obtained
- ❖ All obsolete electrical and electronic wastes are disposed as e-waste to vendors for proper destruction, without damaging the environment and certificates are obtained

- ❖ Electronic waste that are disposed includes Old TVs, computer monitors, printers, scanners, keyboards, mouse, , Radio,, Phones, Fax, Photocopy machines, cables, Flip flops, memory chips, motherboard, compact discs, cartridges etc.,
- ❖ Ensured that generated e-wastes are not disposed, along with the other solid wastes generated
- ❖ GEMS recycling Pvt. Limited, Neervallur Village, Kancheepuram collects all the e-waste
- ❖ SOP is in place for handling the e-waste

File Description	Document
Any additional information	<a href="#">View Document</a>
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**NAAC Score obtained for the relevant metric on four-point scale is boxed.**

Graphical Representation based on QnM & QIM

