

AQAR 2022-23

CRITERIA – VII

7.1.5 GREEN CAMPUS INITIATIVES

TRANSPORT – POLLUTION FREE ENVIRONMENT

- The Transport Department provides a safe, comfort and pleasant travel to the Institute transport users.
- Total 52 vehicles which were been used for students & staff trips, water consumption for Institute and schools. Regular follow- ups are made to provide on time Insurances, Fit condition certificate and permit to all our Institute vehicles.

SI.No	Vehicle type	Nos
1	Swaraj Mazda -Non AC	2
2	Tempo Traveller – Non AC	2
3	Eicher – Non AC	2
4	Tempo Traveller AC	1
5	Bharat Benz - AC Bus	16
6	Eicher – AC Bus	1
7	Ashok Leyland AC Bus	5
8	Ashok Leyland Non AC Bus	1
8	Cars	13
9	Ambulance	2
10	Water Tankers	7
	Total	52

- All vehicles are provided with speed governor as per RTO norms
- All vehicles except cars are provided with Neo-track software for vehicle tracking.





15 Nos. new AC buses purchased which are BS-IV (BHARAT BENZ) compliant vehicles, BS-VI bus 4 have been provided for induction into the student transport fleet from 2018-2023

We have successfully implemented the Transport fees online collection for day scholar students via Master soft ERP login for this academic year 2023 - 2024. The Institute transport service has been provided to the students under a first come first served basis. For the benefit of online transport payment end to end tracking of seat availability and allocation seats to the students;

URL: <u>https://crescent.mastersofterp.in/</u>

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B.S. Abdur Rat

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Green Practices

- Students, staff using
 - a) Bicycles
 - b) Public Transport
 - c) Pedestrian Friendly Roads
- Plastic free campus
- Paperless office
- Green landscaping with trees and plants

BICYCLES: BICYCLES FOR POLLUTION-FREE ENVIRONMENT

- As a step towards complete pollution-free environment in campus, 50 numbers of bicycles are provided for use by Men's Hostel students to commute from Main gate to Hostel and to avoid two-wheelers movement inside campus.
- Bicycles are also provided for lady's hostel inmates.
- The provisions for parking the cycles are provided both in the Main gate and also in the front gates for the benefit of the students.
- > More than 95% of the day scholars walk from the gate to their blocks
- > Only 10% of faculty members use motored vehicles.



PUBLIC TRANSPORT:

- Our Institute is located in the arterial GST Road and is well connected from all areas of Chennai city and suburbs by public transport facilities like Suburban Train and Bus terminus. Nearest Train station is Vandalur at 1km distance and Vandalur ZOO Bus terminus is situated at the Institute gate.
- Most of the day scholars and faculty members use public transport only either bus or train- for daily commuting.

PEDESTRIAN FRIENDLY ROADS:

- Roads inside campus are strictly prohibited for use of two-wheelers and fourwheelers except utility vehicles. The roads are fully used only for pedestrian purpose.
- All vehicles should be parked in the respective places allotted by the security and they are not allowed to enter beyond the barricade placed at the entrance of the campus, unless if there is an emergency or special case.

PLASTIC FREE CAMPUS:

- A policy is in place to convert our campus into a Plastic-free campus. Within the context of our Green campus policy we commit to ban the use of plastics, to reduce the environmental impact of waste plastics.
- Usages of plastics are avoided in the canteen by serving the food in the steel plates.

PAPERLESS OFFICE:

- Electronic documentation is maintained in 50 percent of the cases. All communications to faculty members and students are through e-mails and SMS.
- The student's attendance, faculty attendance, leave applications, continuous assessment tests results and semester end exam results are all maintained through TCS ION.

GREEN LANDSCAPING WITH TREES AND PLANTS

The campus had 909 trees before the cyclone in December 2016.A total of 341 were trees were uprooted in the cyclone. Now the total number of trees in campus is approximately 3094Nos.



- Organic Vegetable garden is formed in open land space in Men's Hostel area. The entire campus is dotted with trees, plants and lawns which are kept well maintained. Green cover is around 30 %.
- > Total campus built up area:1618024 sq.ft
- > Total landscape :656876 sq.ft

The other green practices include

- Solar Power plant
- Biogas plant
- Sewage Treatment plant
- Bicycle
- E- waste Disposal
- Bio waste Disposal
- Green Building Certificate
- LED Fixtures
- > Air-conditioning split units of 5-star BEE rating
- > BS-IV compliant vehicles for transportation
- > Incinerator Machine with wet scrubber for sanitary napkin disposal.

DOCUMENTAL EVIDENCES FOR GREEN PRACTICES

B.S.Abdur Rahman Crescent Institute of Science and Technology has implemented many initiatives to ensure that the campus is pollution free.

BICYCLES FOR STUDENTS



Bicycles



ECO FRIENDLY VEHICLES



Battery Operated Golf cart -4NosElectric Bike-2Nos



Eco Friendly Load Vehicle

PUBLIC TRANSPORT



VANDALUR RAILWAY STATION

VANDLAUR ZOO BUS STOP





PEDESTRIAN FRIENDLY ROADS



PLASTIC FREE CAMPUS







GREEN LANDSCAPING WITH TREES AND PLANTS

The campus had 909 trees before the Vardha cyclone in December 2016. A total of 341 trees were uprooted in the cyclone. 451 trees are newly planted in the last 3 years and are being well maintained. Beema Bamboo Plants 2075 numbers has been planted in whole campus to reduce Co2.Now the total number of trees in campus is 3094 Nos. List of trees are available now in our campus and tabulated below.

TREE NAME	TOTAL Nos
NEEM TREE	272
PORTIA	51
TAMARIND	22
MANGO TREE	33
BRACKEN TREE	253

List of Trees in Campus



COCONUT TREE	48
SPIKELET	145
ASH	40
ARECA	49
CASUARINA	36
SPASMA	6
ALMONDS	18
KING TREE	3
BANYAN TREE	4
PALMYRA	4
TEAK TREE	35
BEEMA BAMBOO PLANTS	2075
TOTAL	3094



Plan showing location of new saplings planted in campus



OXYZONE CAMPUS – BEEMA BAMBOO PLANTATION

Planted bamboo saplings for 5000 run area throughout our compound to absorb dust, CO₂ and to release more oxygen and to create pollution free environment. In future, Central bus stand will produce lot of pollution inside our campus, by planting bamboo, our campus become dust free zone with good oxygen supply.Our Institute is provided first OXYZONE inside our campus. Beema Bamboo Plants 2000 Nos Planted in whole campus for CO₂ reduction.



OXY PARK

Oxy Park created in the campus opposite to Convention Centre





Oxy Park

A tree plantation programme was held at Seethakaathi Estate Farm, Guduvanchery, on the B.S. Abdur Rahman Crescent Institute of Science and Technology campus on June 22, 2023













GREEN BUILDING IN CONSTRUCTION

Sustainable and eco-friendly campus development has been adopted with following materials

- Grass Crete: Method of laying Grass paver flooring, walkways, sidewalks and driveways to improve storm water absorption and drainage
- Ash Crete: Fly ash (recycled) content with cement is being used for all Reinforced Cement concrete works.
- Low VOC paints: Painting with low VOC less than 50gm/liter is using for all painting works - Nippon and Berger
- Engineered wood: MDF (Medium Densified Fibre) wood used for interior partition, doors and furniture's.
- Structural Insulated Panels (SIP): Foam board wall panels are used for prefab structures such as class room and indoor game space.
- Insulated Concrete Forms: GFRC Technology being adopted to construct parent waiting guest rooms and essential staff quarters.
- Steel: Steel roof panels (recyclable) used for workshop roofing.
- Composites: Roof panels made of composite materials such as foam sandwiched between two metal sheets used for prefab class room ceiling.
- Fibreglass:Fibreglass is also used in insulation in the form of Fibreglass batts for interior partition works.
- AAC Blocks: Autoclaved Aerated Concrete blocks (non- toxic product) are used for the construction of all buildings to reduce low environmental impact.
- Thermatek Roof tile: Heat Resistant Terrace tiles are used for all buildings.
- VAV system: Variable air volume HVAC system is adopted to reduce energy consumption





Grass crete



30% Roof top with Heat Resistant Tiles & Solar reflective Index (SRI) value : 97

Environment and Campus

- 1.Green open space and Landscape
- ✤ 2. Preservation of Eco system
- ✤ 3.Public space for students and staffs Cafe, Lounge, Square Garden
- 4.Recycling based campus
- ✤ 5.Enhancing sustainable consumption of available resources i.e water & Energy.



- ✤ 6.Promoting low carbon practices among campus community.
- 7.Minimizing waste and pollution through effective waste management.
- 8.Innovation in building Design with improved daylight and natural ventilation

BEST PRACTICES

- Roof top solar power plant's capacity is 50% of the sanctioned demand
- Green campus
- Rainwater Harvesting
- Biogas plant
- Solar water heaters
- Sewage treatment plant
- Solid, Liquid & E- waste Management
- No plastic zone
- Several measures have been initiated for Sustainability and Environment consciousness
- Green Building Certification
- Recycling of papers through ITC
- Differently-abled friendly campus
- Zero discharge of waste
- Adoption of nearby villages
- Supporting nearby village Panchayats and Government Organisations



FUTURE PLANS TO IMPROVE UPON THE GREEN CAMPUS INITIATIVES

1. Plans to improve Solid Waste Management program:

The following activities are planned in the near future to further improve solid waste management in the campus.

- Color Coding System has to be introduced for dust bins in Class Room blocks, Canteens, pathways, hostels, quarters, etc.,
- All the non-ecofriendly products shall be banned
- Volunteers from staff and students are to be identified for eco volunteering.
- A monitoring team shall be formed to focus on waste reduction and segregation,
- Small size awareness flex card to be pasted in canteen and waste generating area
- Sapling new trees plantings around college campus.
- 2. To formulate a Green Policy / Environment Policy for the campus that will guide all activities of the Institute to align with the sustainability initiatives.
- 3. To get the B S Abdur Rahman Crescent Institute of Science and Technology certified under ISO 14001 for Environmental Management System
- 4. To get the whole campus certified as Green Campus by competent certification authority like USGBC/GBCI.
- 5. Create ponds to save run-off rain water and utilize for routine use to reduce water procurement and increase self-sufficiency.