





EXECUTIVE SUMMARY

OF GREEN CAMPUS INITIATIVES JANUARY 2019

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B.S.ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY

ESTATE OFFICE

VISION

B.S. Abdur Rahman Crescent Institute of Science and Technology is committed to ensure that the built infrastructure of the institute has sustainability as a core principle, both in construction and maintenance management of the campus.

Estate office aspires to follow a range of sustainable design features and practices implemented to build and maintain the institute as a complete green and sustainable campus continuously.

MISSION

- Establish on campus renewable energy sources like Roof-Top Solar
 Power Plants, Bio –Gas plants
- Energy and Water Conservation Measures
- Green Belt Development
- Solid Waste Management program to separate recyclable waste and dispose all waste in non-polluting, responsible manner.
- Getting all buildings certified as Green buildings (Gold rating) under USGBC-LEED / GBCI-EDGE / IGBC rating systems.
- Follow Sustainable Construction practices.

1. GREEN CAMPUS INITIATIVES - FACT FILE

- ✓ Roof-top Solar Power Plant I of 150kWp capacity commissioned in June 2014 at a cost of 1.32Cr. Return on Investment is 79.17Lacs till 31st December 2018.
- ✓ Roof-top Solar Power Plant II of 100kWp capacity commissioned in October 2014 at a cost of 62Lacs. Return on Investment is 52.63 Lacs till 31st December 2018.
- ✓ New Roof-top Solar Power Plant III of 300kWp capacity commissioned in October 2018 at a cost of 1.20Cr. Return on Investment is 3.74Lacs till 31st December 2018.
- ✓ Total power generated through the Solar PV plants is 15,64,320 units till 31st December 2018, which is equal to 11% of our annual consumption.
- ✓ Avoided emission of greenhouse gases to the equivalent of 936995kg CO2 due to generation of renewable energy by Solar PV power plants.
- ✓ LED fixtures of around 33KW capacity has been installed in our campus in the past 5 years. At least 30% of less power is consumed due to this.
- ✓ Air-conditioning split units of 5-star BEE rating is installed in various departments in the campus for a total of 203TR.
- ✓ All the 203 split AC units are free from ozone-depleting CFC.
- ✓ Solar Water heaters in Hostels and staff quarters installed capacity 42,500 litres. This is equivalent to 240 electric geysers of various capacities. The power saving is estimated to be around 17Lacs per annum.
- ✓ Sewage Treatment Plant (STP) 500KLD of water is treated and utilized for Landscaping and flushing purpose in the University and Hostels. One plant of 250KLD capacity for Men's Hostel and another 250KLD capacity plant for University are in operation.
- ✓ New Bio-gas plant of 50m³ capacity for Ladies Hostel is commissioned in June 2017. The gas generated is utilized in Ladies Hostel Mess Kitchen.

GREEN CAMPUS INITIATIVES – FACT FILE (Contd)

- ✓ All existing buildings are registered with Indian Green Building Council (IGBC) for green building certification under IGBC EB rating
- ✓ All New buildings constructed over the last six years and those under construction are registered with GBCI EDGE and USGBC LEED for green building certification for Gold rating.
- ✓ GBCI-EDGE Green building certification received for New Ladies Hostel & New staff quarters on 23.04.2018.
- ✓ New Crescent School of Architecture block is conceived as a Net Zero Energy building and registered under USGBC-LEED for Gold rating certification.
- ✓ Campus Solid Waste Management program is implemented to segregate and recycle organic waste, paper, cartons, paper cups, soft drink tins, plastic, pet bottles, e-waste, bio-waste, etc.
- ✓ Use of eco-friendly cleaning chemicals are mandatory in the campus
- ✓ Retreading of vehicle tyres to extend the life of each tyre is being implemented with an MOU with TVS Retread
- ✓ MOU with ITC-WOW is in place for recycling of waste paper.
- ✓ To reduce pollution inside campus, 55 Nos bicycles have been provided for students to commute between Men's Hostel, Ladies Hostel and College Main gate. Battery Car and Electric Bike provided for staff
- ✓ Sanitary napkin incinerator with wet scrubber (for pollution control) is installed for disposing the napkins. Wet scrubber is attached at the outlet of burner fumes where the fumes gets scrubbed in water and gets filtered to remove the harmful emissions.
- ✓ 15 Nos new AC buses, which are BS-IV compliant vehicles, have been provided for induction into the student transport fleet from July 2018.
- √ 33% of Carbon foot print is offset by the above environment friendly measures in campus.

2. RENEWABLE ENERGY IN CAMPUS

a) Roof-Top Solar Power Plants-550 kWp







Main Block, MBA block & Basic Sciences Block



Aeronautical block



Auditorium



Computer Sciences Block

150kWp Solar PV Power Plant I - Generation up to December 2018

	201	4	201	15	20	16	20	17	20	18
	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount
Month	Generated	Saved INR	Generated	Saved INR						
Jan			14,696	124,916	18,112	153,952	15,386	134,012	15,557	140,013
Feb			19,880	168,980	20,059	170,502	18,325	144,218	19,406	166,115
Mar			18,117	153,995	16,617	141,245	15558	129909	18,847	157,561
Apr			21,706	184,501	12,111	111,542	20,269	168,233	19,490	160,598
May			18,557	157,735	17,072	172,427	18,425	159,376	18,270	151,101
Jun	4,392	37,332	18,425	156,613	18,470	154,225	16,551	137,704	18522	166512
Jul	17,654	150,059	20,211	171,794	17,343	157,128	16,117	146,504	15742	142150
Aug	18,238	155,023	20,105	170,893	20,380	172,619	17,027	153,243	16576	144874
Sep	19,058	161,993	19,823	168,496	17,302	151,566	17,188	154,520	18375	151410
Oct	15,763	133,986	18,121	154,029	18,870	171,340	14,346	120,937	15085	129278.5
Nov	15,446	131,291	11,235	95,498	16,520	135,629	12,242	100,874	10500	90615
Dec	12,697	107,931	14,061	119,519	12,518	149,966	12,478	108,434	11792	112141.9
Total	103,248	877,615	214,937	1,826,969	205,374	1,842,140	193,912	1,657,963	198,162	1,712,369

100kWp Solar PV Power Plant II- Generation up to December 2018

	2014		201	5	20-	16	20-	17	20	18
	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount
Month	Generated	Saved INR	Generated	Saved INR	Generated	Saved INR	Generated	Saved INR	Generated	Saved INR
Jan			10,412	88,502	12,436	105,706	12,261	106,793	11368	102,312
Feb			14,127	120,082	14,288	121,448	14,669	115,445	14107	120,752
Mar			13,644	115,974	12,791	108,724	12,812	106980	13696	114,499
Apr			14,378	122,213	14,643	134,862	12,325	102,298	14234	117,288
May			12,071	102,604	11,668	117,847	12,938	111,914	12993	107,452
Jun			12,360	105,060	12,398	103,523	11,883	98,867	13208	118,740
Jul			13,019	110,662	12,070	109,354	11,658	105,968	11446	103,357
Aug			13,211	112,294	13,442	113,850	12,101	108,908	11540.9	100,868
Sep			13,376	113,696	11,673	102,256	12,057	108,392	12961.8	106,805
Oct			12,459	105,902	13,333	121,062	10347.9	87,233	11531.6	98,826
Nov	9,091	77,275	7,801	66,304	12,041	98,857	8956.6	73,802	14187	122,434
Dec	8,367	71,123	10,082	85,697	9,948	119,177	9450.1	82121	9190.9	87,397
Total	17,458	148,398	146,940	1,248,990	150,730	1,356,665	141,458	1,208,720	150,464	1,300,729

New 300kWp Solar PV Power Plant III- Generation up to December 2018

	2018				
	Units Amount				
Month	Generated	Saved INR			
Nov	17,917	154,624			
Dec	23,120	219,871			
Total	41,037	374,495			

<u>Total Solar Power Generation - 550kWp</u> <u>From June 2014 to December 2018</u>

Plant	Units	Amount
150Kwp	915,633	7,917,056
100kWp	607,650	5,263,502
300kWp	41,037	374,495
Total	1,564,320	13,555,053

The number of units generated through solar power plants constitute 11% of total electricity consumption since June 2014.

b) Bio-Gas Plant

A Biogas plant of 50m³ capacity for Ladies Hostel was commissioned in June 2017 to recycle the food waste generated from the Hostel mess and Canteen in the campus. The biogas generated is utilized in Ladies Hostel mess kitchen.



BIO GAS GENERATION FOR THE PERIOD OF JUNE 2017- DECEMBER 2018				
Month	Total Gas consumed(cum)	Equalant to LPG (KG)	Cost Saved	
Sep'17	94	42	2,601.00	
Oct'17	180	81	5,280.00	
Nov'17	366	164.7	12,062.00	
Dec'17	277	124.65	9,178.00	
Jan'18	170	76.5	5594.57	
Feb'18	153	68.85	5016	
Mar'18	186	83.7	5756	
April'18	195	87.75	5839	
May'18	138	62.1	4105	
June'18	11.03	4.96	327.82	
July'18	0	0	0	
Aug'18	110.814	49.86	3296.42	
Sept'18	55.56	25	1993.58	
Oct'18	51.196	23.03	1941.79	
Nov'18	49.905	22.45	2006.32	
Dec'18	17.099	7.69	608.72	
Total	2054.604	924.24	65,606.22	

3. ENERGY CONERVATION MEASURES

a) LED Fixtures

LED Light fittings in BSACIST Campus

SL NO	BUILDING	QTY	TOTAL WATTS
1	AUDITORIUM	156	2059
2	SCIENCE BLOCK	250	2829
3	AERO BLOCK	458	5064
4	MAIN BLOCK	34	482
5	MBA BLOCK	11	165
6	FIRST YEAR BLOCK	7	105
7	LIFE SCIENCE BLOCK	37	543
8	STAFF QUARTERS	301	3685
9	LADIES HOSTEL	249	3474
10	CAMPUS STREET LIGHT	77	1800
11	MEDICAL	21	309
12	PHARMACY	13	601
13	GM OFFICE	21	420
14	CANTEEN	12	312
15	VC OFFICE	72	450
16	VC VILLA	27	193
17	GUEST HOUSE	17	280
18	STREET LIGHT	4	100
19	STAFF QUARTERS	5	45
20	STREET LIGHT	4	100
21	HR OFFICE	5	60
22	STREET LIGHT	4	100
24	NEW ARCHITECTURE BLOCK	588	10288
	TOTAL	2373	33464

LED light fixtures are being extensively used for all new interior renovation works in the campus. So far, 33.46KW capacity of LED lights are fixed which provide around 30% energy saving compared to conventional lighting.

b) BEE 5-Star Rated Air Conditioner Detail

MODEL	QTY	TON
1.0 TON Split Inverter	17	17
1.5 Ton Split 5*	29	44
2.0 Ton Split 5*	71	142
TOTAL	117	203

With an emphasis to energy conservation, all split AC units purchased since the year 2012 are of BEE 5-star energy rating.

The AC units are free from ozone-depleting CFC.

c) Solar Water Heaters







Men's Hostel

Ladies Hostel

New Staff Quarters

Solar Water Heaters Installed in our campus

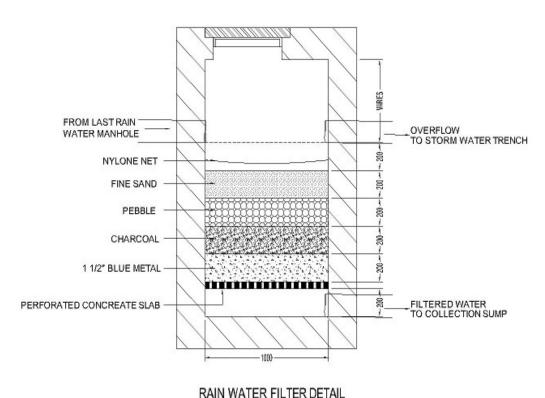
MEN'S HOSTEL						
Block	No. of tanks	Capacity in litres				
A Block	16	4000				
B Block	20	5000				
C Block	18	4500				
D Block	18	4500				
Main block	20	5000				
PG block	12	3000				
<u>L</u>	ADIES HOSTEL					
Main block	- 22	5500				
Annexe Block	22	5500				
New Block Phase 1	21	5250				
STAFF QUARTERS						
New Staff Quarters	23	5750				
Total Capacity 170 42,500 Litres						

Usage of electric geysers is equivalent to 240 Nos. are totally avoided in Hostels and New Staff Quarters. This saves energy to the tune of 17 Lakhs per annum.

4. WATER CONSERVATION MEASURES AND WASTE WATER MANAGEMENT

a) Rain Water Harvesting

Rain water harvesting facility is done in all blocks to collect rain water from the terrace. The harvested water is diverted to open wells in university campus Men's Hostel and ladies hostel. The rain water is also stored in Underground sumps of Life Science block and Mechanical Science Block. The rain water is stored after passing through the pre-filter is shown in figure.



RAIN WATER FILTER DETAIL

Rain water Filtration Process

b) Sewage Treatment Plant - 500kld

2 Nos. of Sewage treatment plants of 250 KLD capacities are available, one for the Men's Hostel and one for the University campus. The STP is of Eco-Bio Block type. The treated water is used for landscaping and toilet flushing purpose.





c) Water Audit By Experts From IIT-Madras In September 2017

B.S. Abdur Rahman Crescent Institute of Science & Technology has approached IIT Madras to give expert professional advice/suggestions to improve our ground water table and also effective utilization of STP water in future in order to reduce the water procurement our complex and witness the real water usage. Based on our request the Prof. Ligy Philip and Prof. B.S Murty, Department of Civil Engineering, IIT Madras visited the campus on September 16, 2017.

The possible water management options and understands the existing systems, need and constraints were discussed with the experts, based on the inputs, and suggestions were given to improve the water management in the campus.

The total water consumption in the institute is 0.6 MLD,(i.e) 0.5 MLD is procured through tankers and 0.1 MLD is extracted from bore wells/tube wells in the campus. The institute has sewage treatment plants with a capacity of 250 KLD each. The treated waste water is mainly used for horticulture purpose. In one of the blocks the treated water for flushing purpose through dual pipe line systems. The drinking water requirement is met by treating the tanker water using Reverse osmosis systems. The yields of these systems are about 45-50%. Campus has two underground sumps to store rain water. The recommendations given by the experts are taken into consideration such as,

- To improve the STP by increasing the biomass concentration
- To provide a complete dual piping systems in campus
- To store unused treated water in unlined ponds, etc.

5. GREEN BELT DEVELOPMENT:

ENVIRONMENT- FRIENDLY MEASURES IN CAMPUS

% of open space area	82% of open area in campus	
% of landscape	10% of Landscape in campus	
Solar Power Plant	10% of total energy consumption931995kg Co2 Emission avoided till date	
Sewage Treatment Plant	No Sewage disposal from campus	
Biogas Plant	80% Food waste used to generate gas and utilized in Ladies Hostel Mess kitchen	
	20% food waste sent to Pig stye	
Dry leave waste	Composed as manner and used for gardening	
Rain Water Harvesting	 New buildings – Rain water pipeline connected to UG sumps Old buildings –RWP are connected to open well Plans to create ponds on the avail 	
Pollution Control in campus	 Use of 55 Nos bicycles by students in campus Battery Car and Electric bike -1 No provided Incinerator Machine with wet scrubber used in campus for sanitary napkin disposal. 	
E- waste Disposal	3850kg disposed in one year as per TNPCB norms through authorized Ex vendor	
Bio waste Disposal	16.5kg disposed in one year as per TNPCB norms through authorized Ex vendor	
Waste Paper recycling	167893kg of used paper recycled from 2016 -2018	
Green Building Certificate	All buildings are registered for Gold rating for Green Building Certification under USGBC/LEED/IGBC-EB ratings systems. New Ladies & New staff quarters block obtained GBCI- EDGE certificate in April 2018	
Transport	BS-IV compliant vehicles – 15 Nos – provided for induction into student transport fleet from July 2018	
Carbon Foot Print	33% Carbon foot print is offset by the above environment-friendly measures in campus	

a) Trees Plantation In Campus

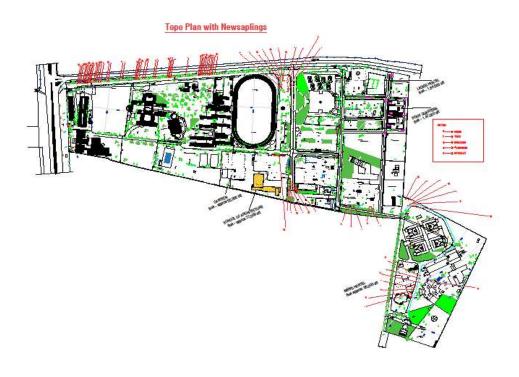
The campus had 909 trees before the Vardha cyclone in December 2016. A total of 341 trees were uprooted in the cyclone. 180 trees are newly planted in the last eight months and are being well maintained. Now the total number of trees in campus is 889 Nos. List of trees are available now in our campus and tabulated below in Table

LIST OF TREES IN CAMPUS

TREE NAME	TOTAL Nos
NEEM TREE	242
PORTIA	22
TAMARIND	22
MANGO TREE	33
BRACKEN TREE	241
COCONUT TREE	48
SPIKELET	120
ASH	28
ARECA	41
CASUARINA	28
SPASMA	6
ALMONDS	18
KING TREE	3
BANYAN TREE	4
PALMYRA	4
TEAK TREE	29
TOTAL	889 Nos



Planting of Trees



Plan showing location of new saplings planted in the last eight months.

b) Bicycles For Pollution-Free Environment

As a step towards complete pollution – free environment in campus, 55 Nos. bicycles are provided for use by Men's Hostel and Ladies Hostel students to commute from Main gate to Hostel and avoid Motor cycle movement inside campus. One Battery operated Golf Cart and Electric Bike provided for staff.





Men's Hostel

Ladies Hostel

Battery Operated Golf cart

Hero electric Bike





6. CAMPUS SUSTAINABILITY MEASURES

a) Green Building Certification

Buildings constructed in last 6 years are registered with USGBC/GBCI-EDGE for Green Building Certification and are in document submission stage of certification for Gold rating

GBCI-EDGE Green Building certification received for New Ladies Hostel and New Staff Quarters.





New Ladies Hostel single Occupant room 92 units & Triple Occupant room28 units



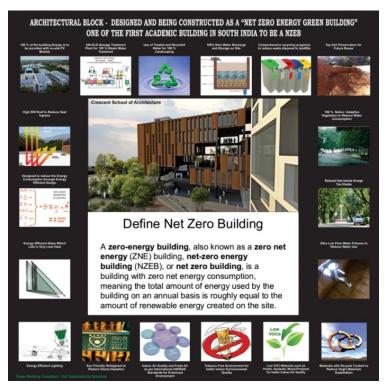


New Staff Quarters 2BHK type 18 units & 3 BHK type 27 units

S.No	Name of the building	Plinth area	Covered area	Estimated cost	Date of completion	Certificate applied to
1	School of Life sciences Block	58,000.00	G+7 (RCC)	110,200,000	2013	USGBC
2	School of Mechanical science block	135,000.00	G+7 (RCC)	310,500,000	Dec 2014	USGBC
3	VC Villa	4,300.00	G+1 (RCC)	9,030,000	May 2014	GBCI EDGE
4	Staff Quarters - Phase 1	75,000.00	G+9 (RCC)	150,000,000	May' 2015	Received on 23.04.18
5	New Ladies Hostel Block - Phase 1	50,000.00	G+8 (RCC)	100,000,000	Dec'2015	Received on 23.04.18
6	New School of Architecture block	98,000.00	G+7 (RCC)	196,000,000	July 2017	USGBC

All old buildings have been applied for Green Building certification with IGBC under IGBC-Existing Buildings rating system.

New Crescent School of Architecture block, is designed as a Net Zero Energy building and registered under USGBC-LEED Gold certification.





New Architecture Block

b) Solid Waste Management

The solid waste management program is intended to safely dispose the waste generated at the campus by way of segregating the waste as organic waste, recyclable waste and inert waste and processing the waste. The objective is to minimize the waste generation and divert / avoid waste from being dumped at the dumping site.

Activities carried out on daily basis:

- Accumulated dry waste are cleared
- Dry leaves shredded and windrows formed.
- Compost Harvest at Resource recovery area
- Regularly feed the food waste to the bio gas plant at ladies hostel and left over food waste removed at boys hostel alternate days.
- Kitchen garden formed at waste processing area
- Deliver bio compost to garden use
- Scrap yard maintenance

Waste Quantification data – Jan'16 to Dec'18:

Total Waste Collected: 585634 Kgs.

Total Organic waste: 280784 Kgs.

Total Recyclable waste: 167893 Kgs.

Total Inert waste: 136957K gs.

Dry waste segregation









Food waste Feeding to Bio gas plant



Campus waste removal







Windrow Formation











Dry waste Removal from the Yard



Napkin incinerator use

Waste collection data since start of Solid Waste Management Program in 2016:

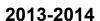
S.No	Month	Organic waste in Kg	Recycle waste Kg	Inert waste Kg	Total Waste in Kg	Sale Amount
1	Jan'16	5,977	1949	13429	21,355	12,750
2	Feb'16	5,635	1983	12700	20,318	28,616
3	March'16	5,800	2507	13736	22,043	29,194
4	April'16	5,477	2775	12898	21,150	20,076
5	May'16	4,544	2410	11457	18,411	14,438
6	June'16	5,252	2747	13150	21,149	20,738
7	July'16	3,676	3124	12409	19,209	58,926
8	Aug'16	5,330	4374	9217	18,921	46,540
9	Sep'16	4,917	2861	1830	9,608	7,490
10	Oct'16	7,956	3412	1225	12,593	8,550
11	Nov'16	10,966	4525	1025	16,516	12,660
12	Dec'16	8,394	2283	794	11,471	7,320
13	Jan'17	10,107	3043	909	14,059	- 44,956
14	Feb'17	10,426	3174	881	14,481	
15	March'17	11,788	3980	1077	16,845	19,112
16	April'17	11,819	4423	1230	17,472	9,142
17	May'17	2,710	5608	3970	12,288	8,504
18	June'17	711	5305	591	6,607	-
19	July'17	885	4828	790	6,503	-
20	Aug'17	1,187	4477	708	6,372	39,762
21	Sept'17	1,393	5046	633	7,072	32,870

	Total	280,784	167,893	136,957	585,634	810,976
36	Dec'18	9,726	4578	1620	15,924	
35	Nov'18	9,325	5995	1521	16,841	
34	Oct'18	9,910	5622	1705	17,237	76,096
33	Sept'18	9,610	5389	1580	16,579	
32	Aug'18	9,880	5083	1696	16,659	
31	July'18	10,997	6292	1892	19,181	
30	June'18	5,643	6914	1801	14,358	- 38,351
29	May'18	5,912	7112	1794	14,818	
28	April'18	10,782	7588	1537	19,907	9,390
27	Mar'18	11,648	8716	1496	21,860	9,390
26	Feb'18	13,529	7529	1721	22,779	8,260
25	Jan'18	17,653	7280	1215	26,148	53,654
24	Dec'17	11,446	5958	1084	18,488	40,340
23	Nov'17	10,677	4751	947	16,375	45,898
22	Oct'17	9,096	4252	689	14,037	107,953

c) Paper Recycling Certificates From 2013 To 2018

Papers are sold to ITC Limited for recycling:







2014-2015



2015-2016



2016-2017



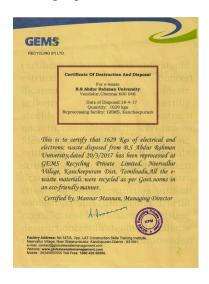
Cortificate of Appreciation
2017-2018

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SEQUENCE OF WAS ABOUT RAHMAN UNIVERSITY
OF A STANDARD RA

2017-2018

d) **E-Waste Destruction Certificate**

All obsolete electronic waste is disposed as e-waste to vendors for proper destruction without damaging the environment and certificate for such destruction and disposal are obtained.

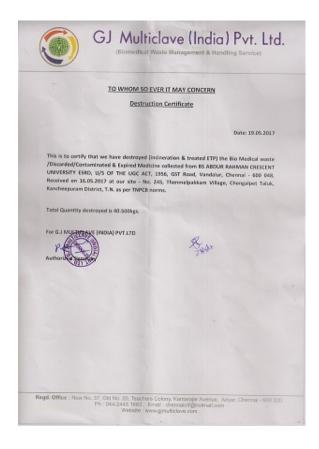






e) Bio Waste Destruction Certificate

All biological waste generated from Life Science Department and Medical Centre is disposed as bio-waste to vendors for proper destruction without damaging the environment and certificate for such destruction and disposal are obtained.



f) <u>Waste/Napkin Burner</u> (Attached With Wet Scrubber For Pollution Control)

Incinerator machine has been installed to dispose sanitary napkins.

Separate bins are provided in all ladies toilets in university and in Ladies Hostel to separate the napkins from other waste.

Wet scrubber is attached at the outlet of burner where the fumes gets scrubbed in water and gets filtered to remove the harmful emissions.

Separate Napkin destroyer machine has installed in Ladies hostel 5 Nos and Medical Hall 1 No



Campus



Medical Hall

Ladies Hostel Main block



Ladies Hostel Annex

7. PARTICIPATION IN RATINGS:

a) QS STAR RATING

QS Star Rating: Our CRESCENT has been awarded an "OVERALL 4 STAR RATING" and 5 STAR RATING FOR FACILITIES in the QS Star Rating Audit Process.





b) QS IGauge Audit - Awarded "Crescent" an overall "Diamond Rating"



c) MHRD Swacchta Rankings

Our Institute has participated in MHRD Swacchta Ranking 2017 & 2018 for Higher Educational Institutions.

8. <u>FUTURE PLANS TO IMPROVE UPON THE GREEN CAMPUS</u> INITIATIVES

1. Plans to improve Solid Waste Management program:

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

- Color Coding System has to be introduced for dust bins in Class Rooms blocks, Canteens, pathways, hostels, quarters, etc.,
- All the non-eco friendly products shall be banned
- Volunteers from staffs 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.