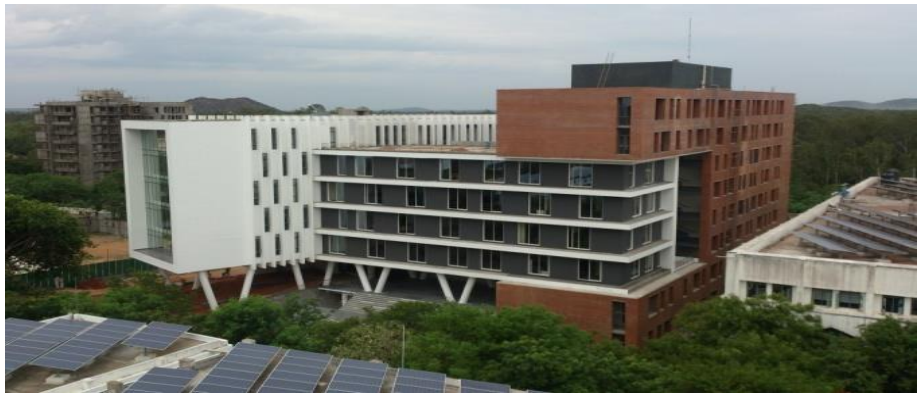
B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Eco - Friendly Campus

Hearty Welcome to CRESCENT CAMPUS

Zero Discharge Campus



ESTATE OFFICE

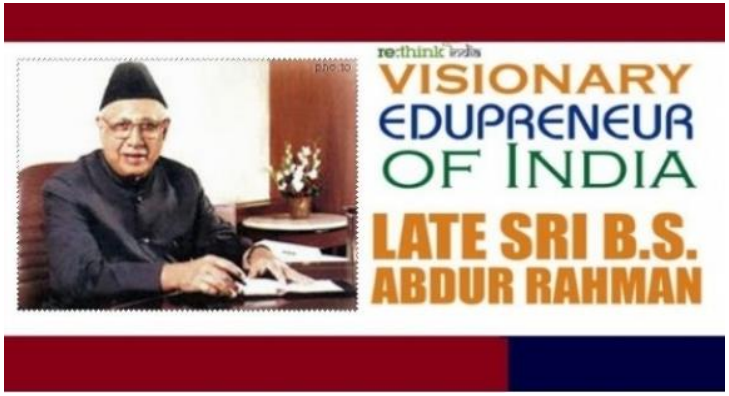
NAAC Accreditation

Plan of Presentation

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

- Crescent - An Overview
- Vision and Mission
- Infrastructure
- Waste Management
  (Solid, Liquid & E- waste)
- Green Building
- Green & Clean Energy
- Pollution Free Conveyance
- Contribution to neighboring Community
- Industrial Collaboration for Cleanliness
- Smart Campus
- Safe & Secure Campus
- Health Centre
- Biodiversity (Flora & Fauna)
- Rain Water Harvesting
- Awards & Recognition
- Best Practices
- Future plans

Crescent – An Overview



Our Founder : (Alhaj. Late. Dr. B. S. Abdur Rahman)

An uncommon man.
Of deep conviction and perseverance his vision runs Crescent today for the benefit of the teachers, staffs, students, alumni and the society.

- Established in 1984 as Crescent Engineering College affiliated to the University of Madras and Anna University.
- It was upgraded and blossomed as B. S. Abdur Rahman Crescent Institute of Science and Technology (Deemed to be University) on its 25th silver jubilee year in 2009.

- The Institute is located in the state of Tamil Nadu in South India.
- 50.19 acres campus is based in what it calls "the greenest spot of Chennai", next to Aringnar Anna Zoological Park.

Crescent – An Overview

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

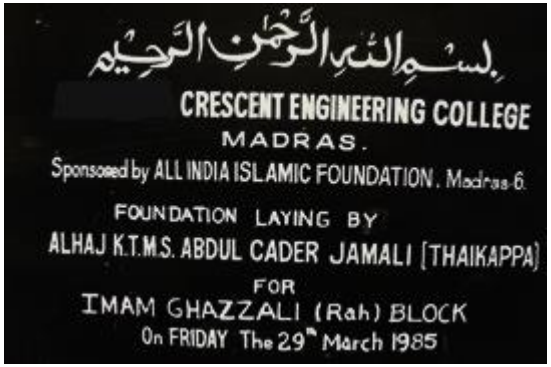
- Crescent Engineering College started on 12th October 1984 with intake of 180 students and sharing the facilities from existing Crescent School in the same campus.

- Formally inaugurated by M.A. Chidamabarm in the presence of DOTE Director Mr. Sivalingam, Chairman, Seethakathi Trust Mr. K.T.M.S. Abdul Cader (Thaikappa) and Founder B.S. Abdur Rahman.

Crescent – An Overview

Electrical Sciences Block

Computer Sciences Block



Workshop Laboratory 1984-1985

Workshop Laboratory 1988-1989

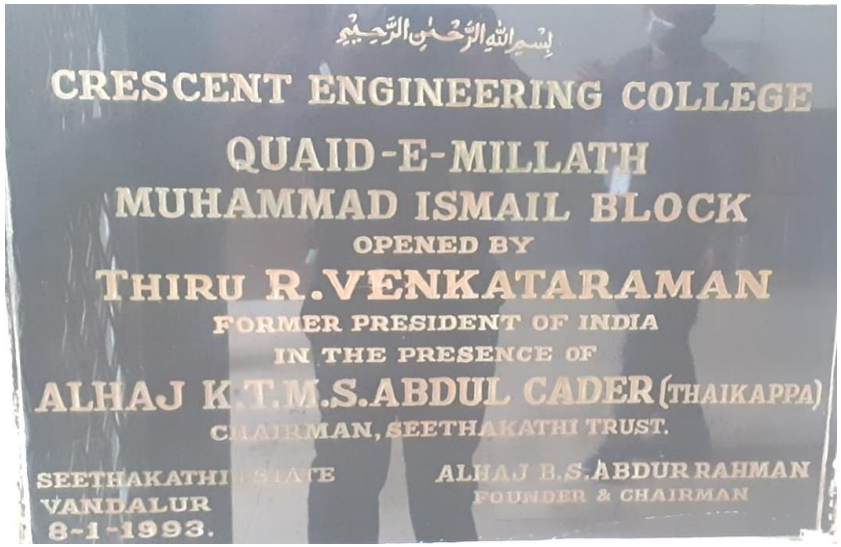
Main Building Inauguration - 1988

Electrical Sciences Block

Computer Sciences Block

Buildings Inauguration -1993 & 2004

PG Block



Convention Centre

Crescent – An Overview

Engineering College First Graduation Day 1989 degree awarded by founder Dr. B.S. Abdur Rahman

Deemed to be University First Convocation 2012 degree awarded by Dr. APJ Abdul Kalam, Former President of India with Mr. Abdul Qadir A.Rahman Buhari Chairman, Board of Management.

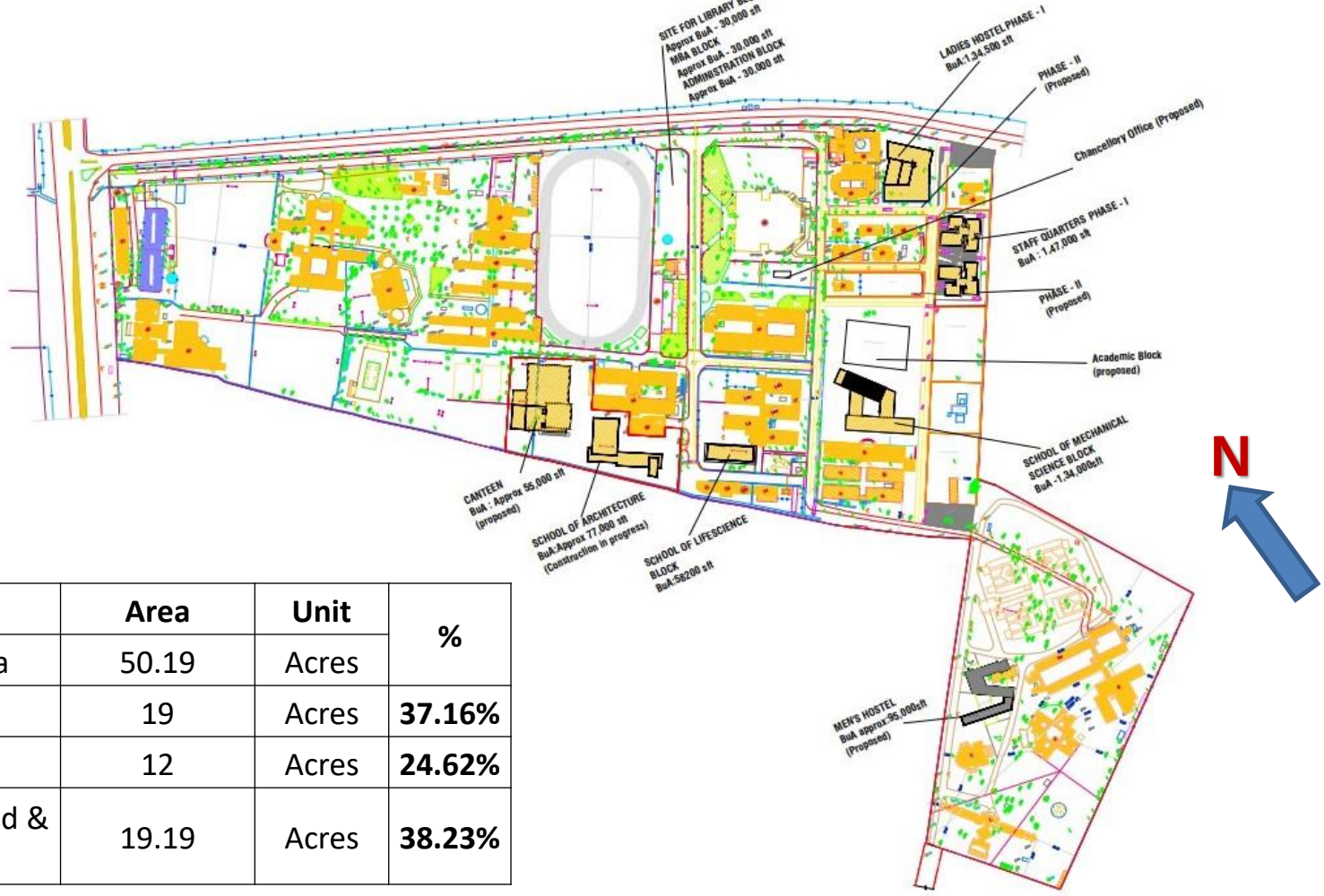
Campus Entrance

Entrance on Kelambakkam Road

Entrance on GST Road

Campus – Master plan

- **The campus is a longish trapezium in shape about 50 acres in extent with the axis East West and the Western side abutting the Grand Trunk Road, and the northern side abutting a 50 feet road to Kelambakkam connecting the Grand Southern Trunk Road. Campus is a sloping one from the G.S.T Road down towards the South East.**



Type	Area	Unit	%
Total Land area	50.19	Acres	
Landscape	19	Acres	**37.16%**
Building	12	Acres	**24.62%**
Open ,Play Ground & Road	19.19	Acres	**38.23%**

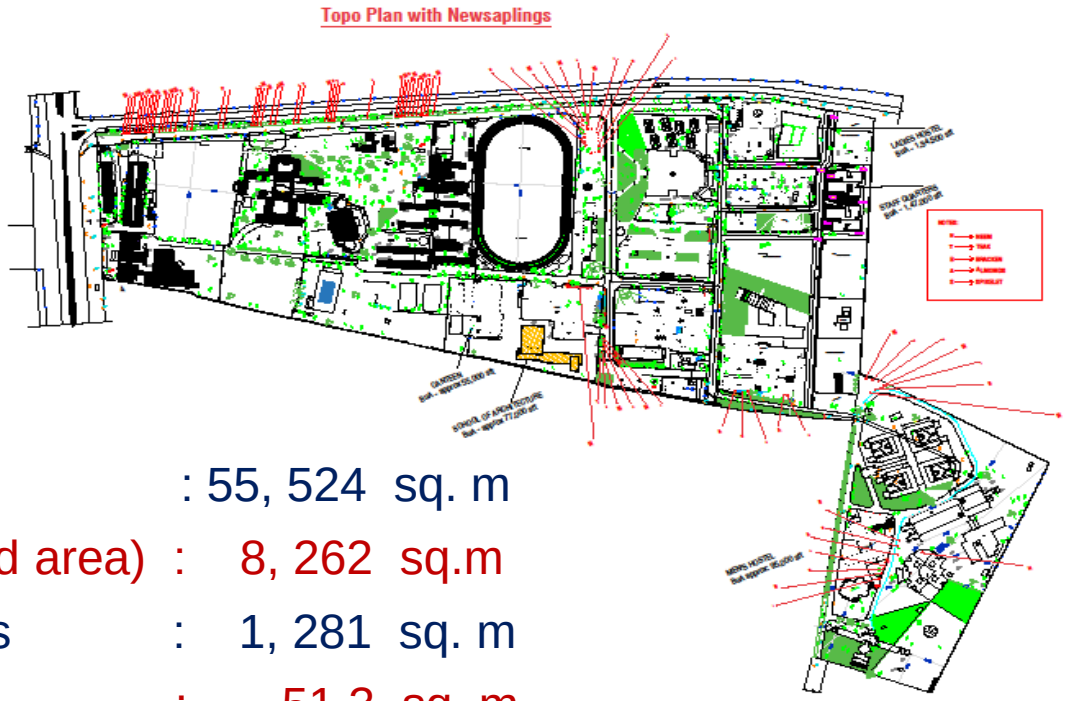
Green Area

From Google Map : 55, 524 sq.m

(Approx: 30% in total area)

Green Cover Statistics

Plan showing location of greenery area in campus



i. Lawn (grass) : 55, 524 sq. m
ii. Tree cover (wooded area) : 8, 262 sq.m
iii. Shrubs and hedges : 1, 281 sq. m
iv. Potted Plants : 51.3 sq. m
v. Beema Bamboo : 10.117 sq. m

Total open area of the campus : 1, 54, 555 sq. m

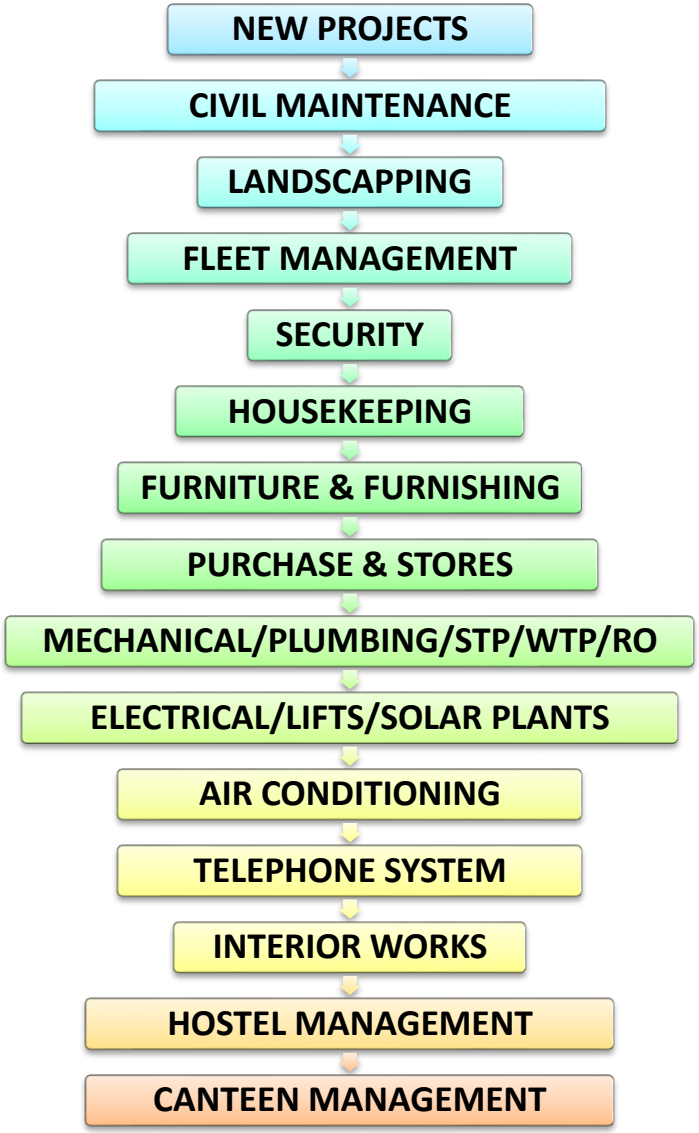
ESTATE OFFICE

- 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 for implementing to build and maintain the institute as a complete green and sustainable campus continuously.

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

Estate Office Activities



Infrastructure

- Total land area : 50.19 Acres
- Total built up area : 15,18,024 Sq.ft
- More than 150 class rooms
- More than 100 laboratories
- State of the art convention center
- Central Library
- 50 department seminar halls/Studios

- 22 Department libraries
- Wi-Fi enabled Campus
- State of the art Data Center
- Central Computing Facility
- Well developed indoor and outdoor sports facilities
- Well equipped fitness center

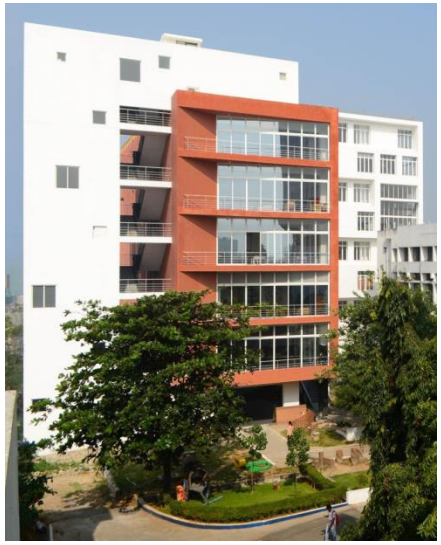
Infrastructure (Contd..)

- Staff Quarters for faculty members (72) and other staff (18)
- Separate hostels for men and women students (Boys : 1708 & Girls : 500) 100% power backup to meet load shedding
- 1,250 KVA backup is available
- Student Amenities Centre

- Book and Stationery Store
- Bank and ATM Point
- Central Canteen
- Community Hall
- Crescent Medical Centre
- Departmental Store

Infrastructure (Contd..)

- Roof top Solar Plant
  (provides 50% of sanctioned demand)
- Biogas Plant
- LED Bulbs
- Green certified buildings
- Solar Water Heater in hostels



Major Buildings in Campus

1. Electrical Sciences block
2. Auditorium
3. Computer Science block
4. Management block
5. Pharmacy block
6. Basic Science Block
7. Architecture block
8. Mechanical Science block
9. Life Science Block
10. Islamic Studies block
11. Estate Office
12. Men's Main block
13. Men's Hostel A Block
14. Men's Hostel B Block
15. Men's Hostel C Block
16. Men's Hostel D Block
17. Men's Hostel PG Block
18. Women's Hostel Main block
19. Women's Hostel Annexure Block
20. Women's Hostel New Block

Toilet Details

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

S.No	Block wise Particulars	Urinal	Hand Wash	W/C	Indian Toilet
1	Auditorium Block	15	26	16	29
2	Main Block	26	20	6	24
3	MBA Block (CBS)	10	15	8	11
4	Science Block (CSE)	32	23	7	25
5	Basic Science Block	20	22	5	27
6	Pharmacy Department	13	21	6	19
7	Mechanical Science Block	76	81	89	0
8	Life Science Block	32	33	37	0
9	New Architecture block	23	9	24	0
10	Common Toilet Near Ground			10	
11	Arabic College and Hostel				44
	Total toilet Nos	**247**	**250**	**208**	**179**
	University Total rest room				**634**
	Ladies Hostel Common & attached toilet				**199**
	Men's Hostel common & attached toilet				**559**
	Total Toilet in Campus				**1392**

Toilet details as per NBC ratio

Location	Gents		Ladies Toilet
	Urinal	Toilet	
Institute	1:23	1:28	1:7
Men's Hostel	1:10	1:6	-
Women's Hostel	-	-	1:3

Rest Rooms details as per NBC					
S.No	Fixtures	Non Residential		Residential	
		Male	Female	Male	Female
	Student strength	3587	1624	1500	400
1	Water closets	90	65	188	67
2	Ablution tap	72	32	30	8
3	Urinals	179	0	60	0
4	Wash basins	60	41	188	67
5	Bath/Shower	0	0	188	67
6	Drinking water tap	72	32	30	8

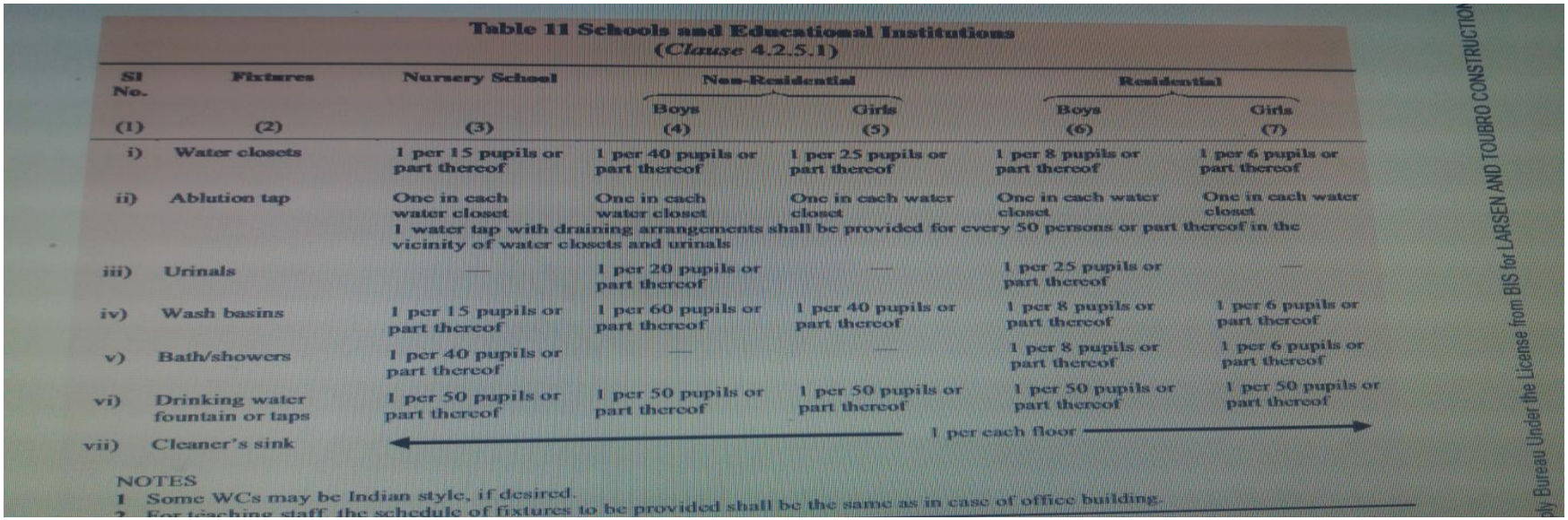


Table 11 Schools and Educational Institutions
(Clause 4.2.5.1)

Sl No.	Fixtures	Nursery School	Non-Residential		Residential	
			Boys	Girls	Boys	Girls
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Water closets	1 per 15 pupils or part thereof	1 per 40 pupils or part thereof	1 per 25 pupils or part thereof	1 per 8 pupils or part thereof	1 per 6 pupils or part thereof
ii)	Ablution tap	One in each water closet	One in each water closet	One in each water closet	One in each water closet	One in each water closet
		1 water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water closets and urinals				
iii)	Urinals	—	1 per 20 pupils or part thereof	—	1 per 25 pupils or part thereof	—
iv)	Wash basins	1 per 15 pupils or part thereof	1 per 60 pupils or part thereof	1 per 40 pupils or part thereof	1 per 8 pupils or part thereof	1 per 6 pupils or part thereof
v)	Bath/showers	1 per 40 pupils or part thereof	—	—	1 per 8 pupils or part thereof	1 per 6 pupils or part thereof
vi)	Drinking water fountain or taps	1 per 50 pupils or part thereof	1 per 50 pupils or part thereof	1 per 50 pupils or part thereof	1 per 50 pupils or part thereof	1 per 50 pupils or part thereof
vii)	Cleaner's sink	← 1 per each floor →				

NOTES
1 Some WCs may be Indian style, if desired.
2 For teaching staff, the schedule of fixtures to be provided shall be the same as in case of office building.

Bureau Under the License from BIS for LARSEN AND TOUBRO CONSTRUCTION

New Projects

Published in International Architectural Design Magazine (DOMEX)

School of Life Sciences Building (2013)

Built up Area: 58000 sft. (G+7)

Project Cost : Rs. 11.5 Crores

New Projects

Published in International Architectural Design Magazine (DOMEX)

School of Mechanical Sciences Building (2014)
Built up Area: 1,35,000 sft. (G+7)
Project Cost: Rs. 30 Crores

New Projects

Published in International Architectural Design Magazine (DOMEX)

New Staff Quarters (2015)
Built up Area: 75000 sft. (G+9)
Project Cost: Rs. 17 Crores

New Projects

Published in International Architectural Design Magazine (DOMEX)

New Ladies Hostel Building (2015)

Built up Area: 80000 sft. (G+7)

Project Cost: Rs. 16.5 Crores

New Projects

Published in International Architectural Design Magazine (DOMEX)

School of Architecture Building (2016)
Built up Area: 98000 sft. (G+7)
Project Cost : Rs. 23 Crores

New Projects

Vice Chancellor's Villa (2014)
Built up Area: 4300 sft.
Project Cost : Rs. 1.3 Crores

Hostel

KBA Men's Hostel A,B,C & D (4) Blocks Building (2009)
Built up Area: 152604 sft.
Project Cost : Rs. 23 Crores

CIIC Project

Crescent Innovation and Incubation Council (2018)
Built up Area: 23398 sft. (G+2)
Established at a cost : Rs. 25 Lakhs

New Projects

Crescent Sports Village (2020)
Play Area 80000 sft.
Project Cost : Rs. 20 Lakhs

KBA Men's Hostel Building

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

A & B Blocks

C & D Blocks

Main Block

PG Block

TBAK Women's Hostel Building

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Main Block

Annexure Block

New and International Block

New Projects

Structural Engineering Laboratory

Additional Class rooms Building

New Projects

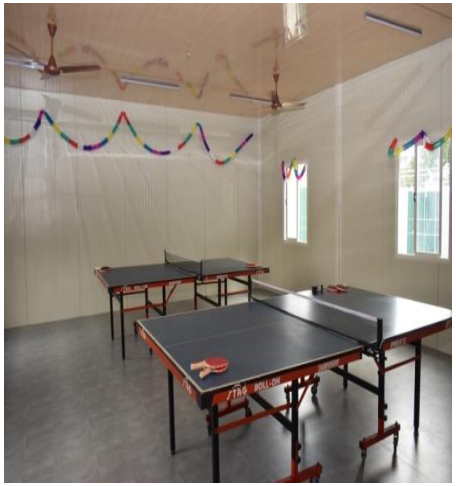
B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Crescent School of Business

Crescent Video Lecture Studio

Indoor Games Centre

Indoor Games Table Tennis

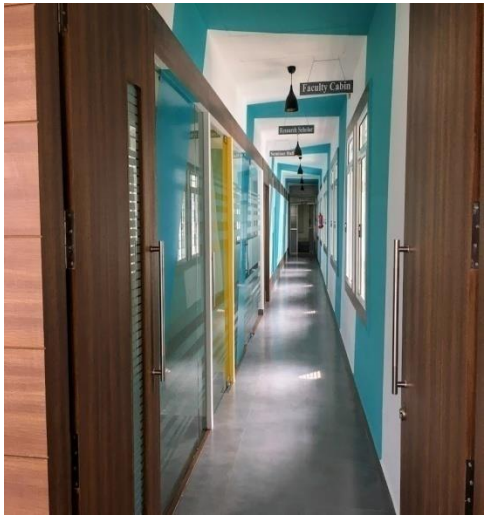


Crescent ROBO lab

Robo Lab

MBA Dept. New Seminar Hall

Renovated MBA Dept.



New Projects with GFRG Technology

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Essential Staff Quarters

Parents Waiting Hall

Model House

Insulated concrete forms : GFRG Technology (Design and Developed by Dept. of Civil Engineering)

Convention Centre - Auditorium

Auditorium Interior

Seminar Hall - 1

Seminar Hall - 1

Seminar Hall - 2

Seminar Hall - 3

- B.S. Abdur Rahman Crescent Institute boasts of a very large Convention Centre which houses an auditorium of 1500 seating capacity and three sophisticated seminar halls of seating capacity 300, 200 and 100.(Constructed in 2004)
- Set in bewitching landscape, this wonderful building has lofty pillars whose beauty is enhanced in turn by a series of small arches. As one enters the Convention Centre, a breath-taking expansiveness fascinates the visitor. The auditorium accommodates 1500 persons in 2 galleries on the ground and mezzanine levels. Equipped with state-of-the-art sound and light systems, the centre has been designed for the best acoustics and space utilization.

Campus Prayer Hall

Tayka Shaiku Abdul Kader Masjid

Academic Block Details

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

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

ACADEMIC BLOCK DETAIL AS ON 17.03.2020

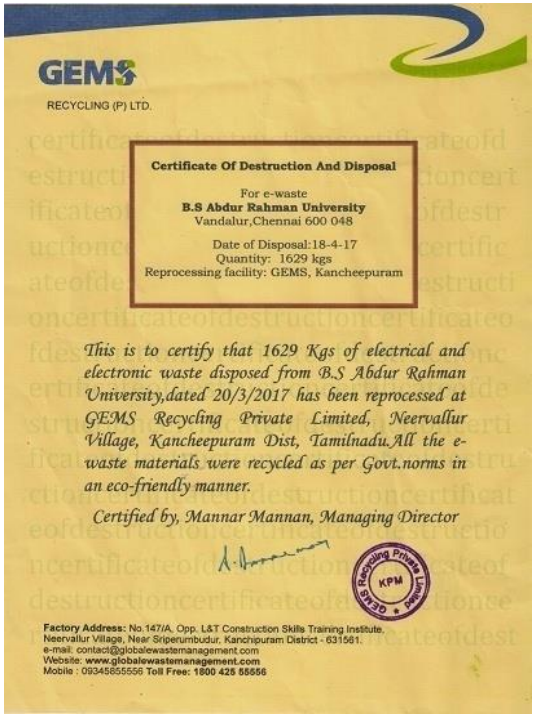
S.No	Block	Class room	Area in Sq.m	Seminar Hall	Area in Sq.m	Laboratory	Area in Sq.m	Library	Area in Sq.m	Office,Staffroom-Area (sqm)	Toilet	Toilet Area in Sq.m	Total area in sqm	Circulation area in sqm	Builup area in sqm	Approval Status
1	Computer Sciences Block	3	318	5	248	35	3371	2	903	1148	32	340	6328	1599	7927	Approved
2	Electrical Sciences Block	29	2279	3	161	20	2604	3	166	1854	31	221	7285	5277	12562	Approved
3	Management Block	23	2088	3	233	18	1824	0	0	1012	20	201	5358	1061	6419	Approved
4	Basic Sciences Block	15	1426	0	0	4	829	0	0	320	32	148	2723	1501	4224	Process
5	Pharmacy Block	2	163	0	0	9	726	0	0	171	20	144	1226	657	1883	Process
6	Life Sciences Block	22	1713	1	56	8	933	1	52	281	37	272	3307	2083	5390	Process
7	Mechanical Sciences block	34	2906	8	955	15	2195	2	440	1240	113	652	8388	4158	12546	Process
8	Architecture Block	15	1127	23	2563	5	264	3	328	592	36	218	5106	4001	9107	Process
9	Convention Centre	0	0	4	705	1	91	0	0	600	36	204	1600	959	2559	Process
10	Structural Engineering Block	7	401	0	0	1	190	0	0	0	0	0	591	149	740	Process
11	School of Islamic Studies	12	588	1	160	1	49	1	159	79	12	72	1107	975	2082	Process
12	Service complex (Law Dept)	6	396	2	156	0	0	1	64	99	6	37	1179	515	1694	Process
13	Workshop Sheds	0	0	0	0	6	1900	0	0	0	0	0	1900	108	2008	Process
14	Power room	0	0	0	0	2	286	0	0	0	2	10	286	257	543	Process
15	Physical Education Block	0	0	0	0	2	281	0	0	0	2	10	281	329	610	Process
	Grand Total	**168**	**13405**	**50**	**5237**	**127**	**15543**	**13**	**2112**	**7396**	**379**	**2529**	**46665**	**23629**	**70294**	

Approval / Authorisation by Statutory Bodies

- Certification for E-waste (Rules 2016 clearance)
- Certification for Solid waste (Rules 2016 clearance)
- Certification for Bio-medical waste (Rules 2016 clearance)
- Certification for Water Quality (Water Act 1974)
- Certification for Sanitation
- Certification for Fire Safety
- Certification from Airport Authority of India
- Certification for Food Safety

Certification for E-waste (Rules 2016 clearance)

- 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.
- 3850 kg disposed in one year as per TNPCB norms through authorized vendor.



GEMS
RECYCLING (P) LTD.

Certificate Of Destruction And Disposal

For e-waste
B.S Abdur Rahman University
Vandalur,Chennai 600 048

Date of Disposal:18-4-17
Quantity: 1629 kgs
Reprocessing facility: GEMS, Kancheepuram

This is to certify that 1629 Kgs of electrical and electronic waste disposed from B.S Abdur Rahman University,dated 20/3/2017 has been reprocessed at GEMS Recycling Private Limited, Neervallur Village, Kancheepuram Dist, Tamilnadu.All the e-waste materials were recycled as per Govt.norms in an eco-friendly manner.

Certified by, Mannar Mannan, Managing Director

Factory Address: No.147/A, Opp. L&T Construction Skills Training Institute, Neervallur Village, Near Sriperumbudur, Kanchipuram District - 631561.
e-mail: contact@globalewastemanagement.com
Website: **www.globalewastemanagement.com**
Mobile : 09345655556 **Toll Free: 1800 425 55556**

VIROGREEN
www.virogreen.in
Your Trust is Our Success.

Certificate of Destruction

COD No: VGIN170336
CPCB REG No: 8-29016(1881)/1(Reg) 10/HWMD

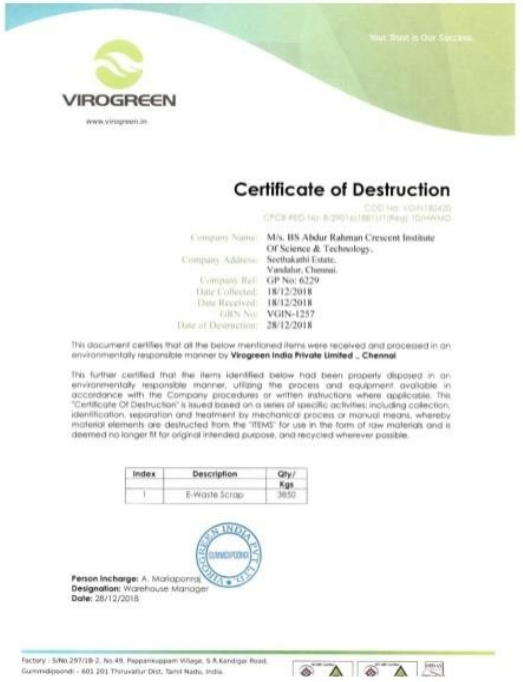
Company Name: M/s. BS Abdur Rahman Crescent Institution Of Science Technology,
Company Address: Vandalur, Chennai.
Company Ref: GP No: 6493 from Seethakathi Estate office
Date Collected: 14/12/2017
Date Received: 14/12/2017
GRN No: VGIN-0355
Date of Destruction: 28/12/2017

This document certifies that all the below mentioned items were received and processed in an environmentally responsible manner by **Virogreen India Private Limited ., Chennai**

This further certified that the items identified below had been properly disposed in an environmentally responsible manner, utilizing the process and equipment available in accordance with the Company procedures or written instructions where applicable. This "Certificate Of Destruction" is issued based on a series of specific activities; including collection, identification, separation and treatment by mechanical process or manual means, whereby material elements are destructed from the "ITEMS" for use in the form of raw materials and is deemed no longer fit for original intended purpose, and recycled wherever possible.

Index	Description	Qty Kgs
1	E-Waste Scrap	701

Person Incharge: A. Mariaponraj
Designation: Warehouse Manager
Date: 28/12/2017



VIROGREEN
www.virogreen.in
Your Trust is Our Success.

Certificate of Destruction

Company Name: M/s. BS Abdur Rahman Crescent Institute Of Science & Technology,
Company Address: Seethakathi Estate, Vandalur, Chennai.
Company Ref: GP No: 6229
Date Collected: 18/12/2018
Date Received: 18/12/2018
GRN No: VGIN-1257
Date of Destruction: 28/12/2018

This document certifies that all the below mentioned items were received and processed in an environmentally responsible manner by **Virogreen India Private Limited ., Chennai**

This further certified that the items identified below had been properly disposed in an environmentally responsible manner, utilizing the process and equipment available in accordance with the Company procedures or written instructions where applicable. This "Certificate Of Destruction" is issued based on a series of specific activities; including collection, identification, separation and treatment by mechanical process or manual means, whereby material elements are destructed from the "ITEMS" for use in the form of raw materials and is deemed no longer fit for original intended purpose, and recycled wherever possible.

Index	Description	Qty/ Kgs
1	E-Waste Scrap	3850

Person Incharge: A. Mariaponraj
Designation: Warehouse Manager
Date: 28/12/2018

Certification for Solid waste (Rules 2016 clearance)

- Solid Waste Management program is to separate recyclable waste and dispose all waste in non-polluting responsible manner to a vendors for proper recycle without damaging the environment and certificate for such recyclable and disposal are obtained.

Refuse
Reduce
Reuse
Repurpose
Recycle

Green Services Trust
Let's go green...

Certificate of Appreciation

We Sincerely thank M/s Abdur Rahman Crescent University, Vandalur for partnering in implementing Solid Waste Management Project, a national recycling initiative.

M/s. Abdur Rahman Crescent University Vandalur has implemented Solid Waste Management Project in an environment friendly manner and diverted 1,44,655 Kgs. of waste from landfill to recycling during the year 2017-18.

Let us continue to Recycle Waste and Save Environment.

Date : 30th July 2018
Place : Chennai

Managing Trustee

ITC
Enduring Value

WOW
WELL BEING OUT OF WASTE

Certificate of Appreciation

2017-2018

ITC LTD- (PAPER BOARDS & SPECIALITY PAPERS DIVISION)

Sincerely Thank B.S.ABDUR RAHMAN UNIVERSITY

for partnering WOW-Well Being Out of Waste, a National Recycling Initiative.

B.S.ABDUR RAHMAN UNIVERSITY

contributed 6969 kgs of Dry Waste for the recycling project WOW -Well Being Out of Waste

ITC PSPD is a member of GLOBAL FOREST &TRADE NETWORK
WWF
For more information on the GFTN see www.gftn.panda.org

We look forward to your continued support in making India CLEAN & GREEN

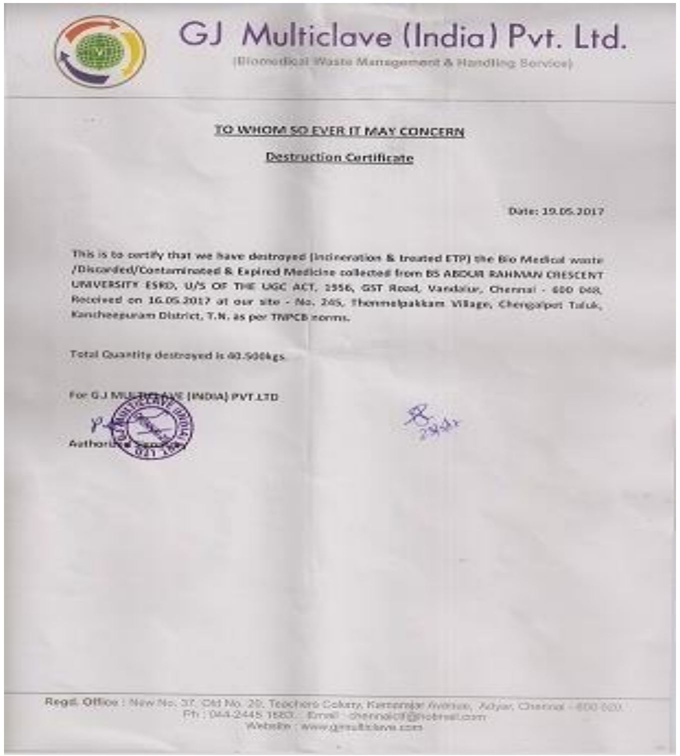
LETS RECYCLE & CONSERVES ENVIRONMENT

Sib Sankar Bandopadhyay
Head - Human Resources
ITC LTD-PSPD

Certification for Bio-medical waste (Rules 2016 clearance)

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

- All biological waste generated from School of Life Sciences 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.



GJ Multiclave (India) Pvt. Ltd.
(Biomedical Waste Management & Handling Service)

TO WHOM SO EVER IT MAY CONCERN

Destruction Certificate

Date: 19.05.2017

This is to certify that we have destroyed (incineration & treated ETP) the Bio Medical waste /Discarded/Contaminated & Expired Medicine collected from BS ABDUR RAHMAN CRESCENT UNIVERSITY ESRD, U/S OF THE UGC ACT, 1956, GST Road, Vandalur, Chennai - 600 048, Received on 16.05.2017 at our site - No. 245, Thenmelpakkam Village, Chengalpet Taluk, Kancheepuram District, T.N. as per TNPCB norms.

Total Quantity destroyed is 40.500kgs.

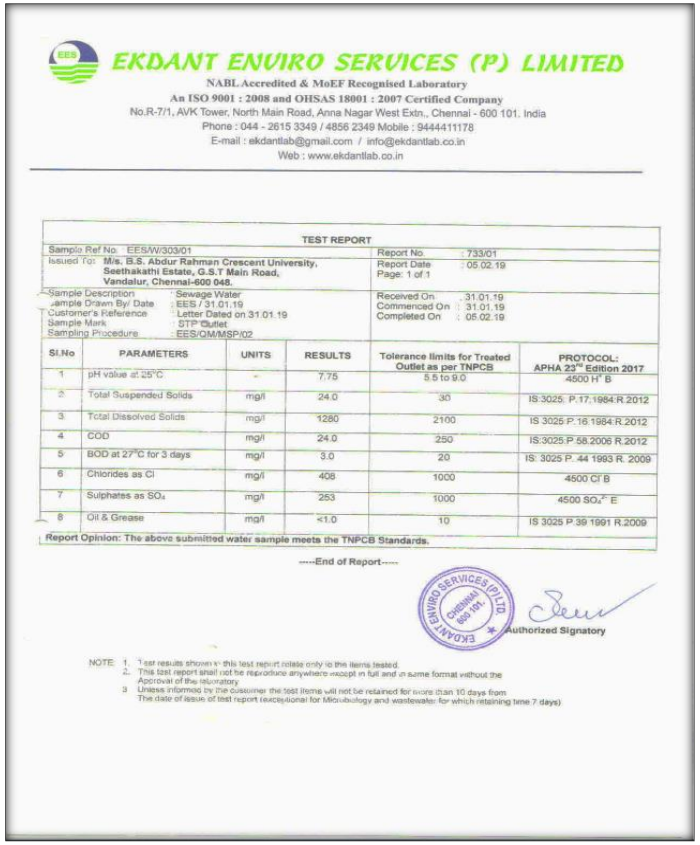
For G.J MULTICLAVE (INDIA) PVT.LTD

Authorised Signatory

Regd. Office : New No. 37, Old No. 20, Teachers Colony, Kamaraj Avenue, Adyar, Chennai - 600 020.
Ph : 044-2445 1883, Email : chennai@hotmail.com
Website : www.gjmulticlave.com

Certification for Water Quality (Water Act 1974)

- Water Treatment plants are provided - 5 Nos at various places in the campus to treat the water before use and tested through a vendor periodically and certificate for such quality and purify of water are obtained.



EKDANT ENVIRO SERVICES (P) LIMITED

NABL Accredited & MoEF Recognised Laboratory
An ISO 9001 : 2008 and OHSAS 18001 : 2007 Certified Company
No.R-7/1, AVK Tower, North Main Road, Anna Nagar West Extn., Chennai - 600 101. India
Phone : 044 - 2615 3349 / 4856 2349 Mobile : 9444411178
E-mail : ekdantlab@gmail.com / info@ekdantlab.co.in
Web : www.ekdantlab.co.in

TEST REPORT

Sample Ref No. : EES/W/303/01
Issued To : M/s. B.S. Abdur Rahman Crescent University, Seethakathi Estate, G.S.T Main Road, Vandalur, Chennai-600 048.
Report No. : 733/01
Report Date : 05.02.19
Page: 1 of 1

Sample Description : Sewage Water
Sample Drawn By/ Date : EES / 31.01.19
Customer's Reference : Letter Dated on 31.01.19
Sample Mark : STP Outlet
Sampling Procedure : EES/QM/MSP/02

Received On : 31.01.19
Commenced On : 31.01.19
Completed On : 05.02.19

Sl.No	PARAMETERS	UNITS	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	PROTOCOL: APHA 23rd Edition 2017
1	pH value at 25°C	-	7.75	5.5 to 9.0	4500 H^+ B
2	Total Suspended Solids	mg/l	24.0	30	IS:3025: P.17;1984:R.2012
3	Total Dissolved Solids	mg/l	1280	2100	IS 3025 P.16:1984:R.2012
4	COD	mg/l	24.0	250	IS:3025:P.58:2006 R.2012
5	BOD at 27°C for 3 days	mg/l	3.0	20	IS: 3025 P. 44 1993 R. 2009
6	Chlorides as Cl	mg/l	408	1000	4500 Cl^- B
7	Sulphates as SO_4	mg/l	253	1000	4500 SO_4^{2-} E
8	Oil & Grease	mg/l	<1.0	10	IS 3025 P.39 1991 R.2009

Report Opinion: The above submitted water sample meets the TNPCB Standards.

-----End of Report-----

EKDANT ENVIRO SERVICES (P) LTD. Chennai 600 101.

Authorized Signatory

NOTE: 1. Test results shown in this test report relate only to the items tested.
2. This test report shall not be reproduce anywhere except in full and in same format without the Approval of the laboratory.
3. Unless informed by the customer the test items will not be retained for more than 10 days from The date of issue of test report (exceptional for Microbiology and wastewater for which retaining time 7 days)

Certification for Sanitation & Fire Safety

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

SANITARY CERTIFICATE

(Under the Tamilnadu Education Rules)
Appendix - 3
(Chapter III Rules - 24)

I hereby declare that I have inspected the **B.S. ABDUR RAHMAN CRESCENT INSTITUE OF SCIENCE & TECHNOLOGY,** located at G.S.T. Road, Vandalur, Chennai–600048, Chengalpattu Taluk, Kancheepuram District -as been inspected on 13th Wednesday November 2019 and certify

- That the accommodation provided for each of the several division is sufficient and is properly ventilated and lighted.
- That the building is maintained in substantial repair.
- That is neat and clean.
- That the supply of drinking water is wholesome.
- That the latrine and urinal arrangements are adequate for both sex and good.
- That in all other necessary aspects the sanitation is good.

Conditions:

- The College Authority should banned the Cigarette and other Tobacco products in the campus and visible board to be displayed – COTP Act 2003.
- This certificate is valid for one year from the date of issue.

R. No. : **4807 / A2 / 2019**
Dated : **15.11.2019**

Block Health Supervisor,
Kattankulathur Block,
Nandhivaram - 603 202

15 NOV 2019

COUNTERSIGNED

15/11/19

DEPUTY DIRECTOR OF HEALTH SERVICES,
KANCHEEPURAM DISTRICT,
SAIDAPET @ CHENGALPATTU

To

The Principal,
B.S. ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY,
G.S.T. Road, Vandalur, Chennai–600048,
Chengalpattu Taluk,
Kancheepuram District.

TAMILNADU FIRE AND RESCUE SERVICE
FIRE LICENSE

Under section 13 of the Tamilnadu Fire Service Act No. 40 of 1985 and with Tamilnadu Fire Service Rules 1990- Appendix III

License No: 974 /2019
L.Dis No: 6302/B/2019

Date: 17/05/2019

License is hereby granted under section 13 of the Tamil Nadu Fire Service Act 1985 for other items running of MAIN BLOCK (ELECTRICAL SCIENCE) (Mention whichever is applicable) Within the Jurisdiction of VANDALUR Village/ Panchayat in the Name of Company M/S. B.S. ABDUL RAHMAN UNIVERSITY, SEETHAKATHI ESTATE, S.No. 294-1,2 G.S.T ROAD, VANDALUR, CHENGALPATTU TALUK, KANCHIPURAM DISTRICT, Subject to Conditions noted thereon and such other conditions as may be prescribed. The inspection was done by Asst. District Officer, Kanchipuram, on 03.05.2019. This License is valid up to 16/05/2020.

CONDITIONS

1. As per National Building Code of India 2016 Fire and Life Safety, Periodical maintenance and care should be taken to all fire protection equipments with good working condition at all times and a register should be maintained.
2. The First aid fire fighting equipments should be maintained at all floors in accordance with the IS 2190:2010 requirements.
3. Staffs should be trained in preliminary fire fighting as per G.O.No:713 Home (Police-17), Dated:17.08.2005 with Fire and Rescue Services Department.
4. Fire drill should be conducted at least once in every six months with the local Fire and Rescue Service authorities and a permanent register should be maintained in part-I
5. This Licence is valid for one year from the date of issue.
6. The applicant will also get permission/No objection certificate from other department if necessary.
7. Regular Licence has to be obtained from competent authority.
8. If here is any deviation from the Govt.Rule and Act the licence issued will stand cancelled.
9. All the Fire Extinguishers have to be recharged and maintained periodically asper code practice in 2190/2010.
10. Advise to train the employee to operate the fire Extinguisher.

(Office Seal)

17 MAY 2019

District officer,
Fire and Rescue Services,
Kanchipuram.

To:
M/S. B.S. ABDUL RAHMAN UNIVERSITY,
Seethakathi Estate,
S.No. 294-1,2 G.S.T Road,
Vandalur, Chengalpattu Taluk,
Kanchipuram District.

Copy to: The Deputy Director, Fire and Rescue Services,
North-Western Region, Vellore.

Certification from Airport Authority of India

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

B. S. ABDUR RAHMAN UNIVERSITY
Seethakathi Estate,
Vandalur,
Chennai- 600 048.

Date: 03-10-2019

System Generated Auto Assessment for Height Clearance

1. Airports Authority of India (AAI) in pursuance of responsibility conferred by and as per the provisions of Govt. of India (Ministry of Civil Aviation) order GSR 751 (E) dated 30th Sep. 2015 for Safe and Regular Aircraft Operations has assessed the site data filled by the applicant.

2. Assessment details for Height Clearance:

NOC ID :	**CHEN/SOUTH/B/092419/431410**
Applicant Name*	**S Sathya Narayanan**
Site Address*	**Multi Storied Aeronautical Block at Survey Nos. 292, 293, 294, 295, 296, 297**
Site Coordinates*	**12 52 29.43N 80 05 04.55E, 12 52 29.77N 80 05 05.73E, 12 52 31.15N 80 05 05.91E, 12 52 28.41N 80 05 06.97E, 12 52 29.23N 80 05 07.38E**
Site Elevation in mtrs AMSL as submitted by Applicant*	**37.83 M**
Type Of Structure*	**Building**

*As provided by applicant

Your site is located at a distance 16509 mts from ARP and lies in the grid S7 of the published CCZM of Chennai airport. The Permitted top elevation for this grid is 95 mts.

Since the requested top elevation 72.88 mts in AMSL is below CCZM permitted top elevation, the NOC for height clearance is not required from Airports Authority of India.

3. This assessment is subject to the terms and conditions as given below:

a. The site-elevation and site coordinates provided by the applicant are taken for calculation of the permissible top elevation for the proposed structure. If however, at any stage it is established that the actual data is different from the one provided by the applicant, this assessment will become invalid.

b. The Site coordinates as provided by the applicant in the NOC application has been plotted on the street view map and satellite map as shown in ANNEXURE. Applicant/Owner to ensure that the plotted coordinates corresponds to his/her site.In case of any discrepancy,this assessment shall be treated as null and void

c. Airport operator or his designated representative may visit the site (with prior coordination with applicant or owner) to ensure that assessment terms & conditions are complied with.

d. The assessment is further subject to the provisions of Section 9-A of the Indian Aircraft Act, 1934 and any notifications issued there under from time to time including the Aircraft(Demolition of Obstruction caused by Buildings and Trees etc.) Rules,1994.

NOTARY PUBLIC GOVT. OF INDIA
M. NALLA THAMBI, M.A., M.L., ADVOCATE No. 12, E.V.R. STREET, MEENAMBAKKAM, CHENNAI-600 027. Reg. No. 9275 Dt. 18-12-2011

राजीव गांधी भवन
Rajiv Gandhi Bhawan
सफदरजंग हवाई अड्डा नई दिल्ली–110003
Safdarjung Airport, New Delhi-110003
दूरभाष : 24632950
Phone: 24632950

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

e. The applicant is responsible to obtain all other statutory clearances from the concerned authorities including the approval of building plans. This assessment for height is to ensure the safe and regular aircraft operations and shall not be used as document for any other purpose/claim whatsoever, including ownership of land etc.

f. Use of oil, electric or any other fuel which does not create smoke hazard for flight operations is obligatory, within 8 KM of the Aerodrome Reference Point.

g. This assessment has been issued w.r.t. the Civil Airports as notified in GSR 751(E). Applicant needs to seek separate NOC for Defence, if the site lies within jurisdiction of Defence Airport. Applicants also need to seek clearance from state Govt. as applicable, for sites which lies in the jurisdiction of unlicensed civil aerodrome as outlined in Rule 13 of GSR751 (E).

This assessment is system auto generated and thus does not require any signature

Designated Officer
Region Name: SOUTH
Address: General Manager Airports Authority of India, Regional Headquarter, Southern Region, Chennai Airport, Chennai-600027 (Tamil Nadu)

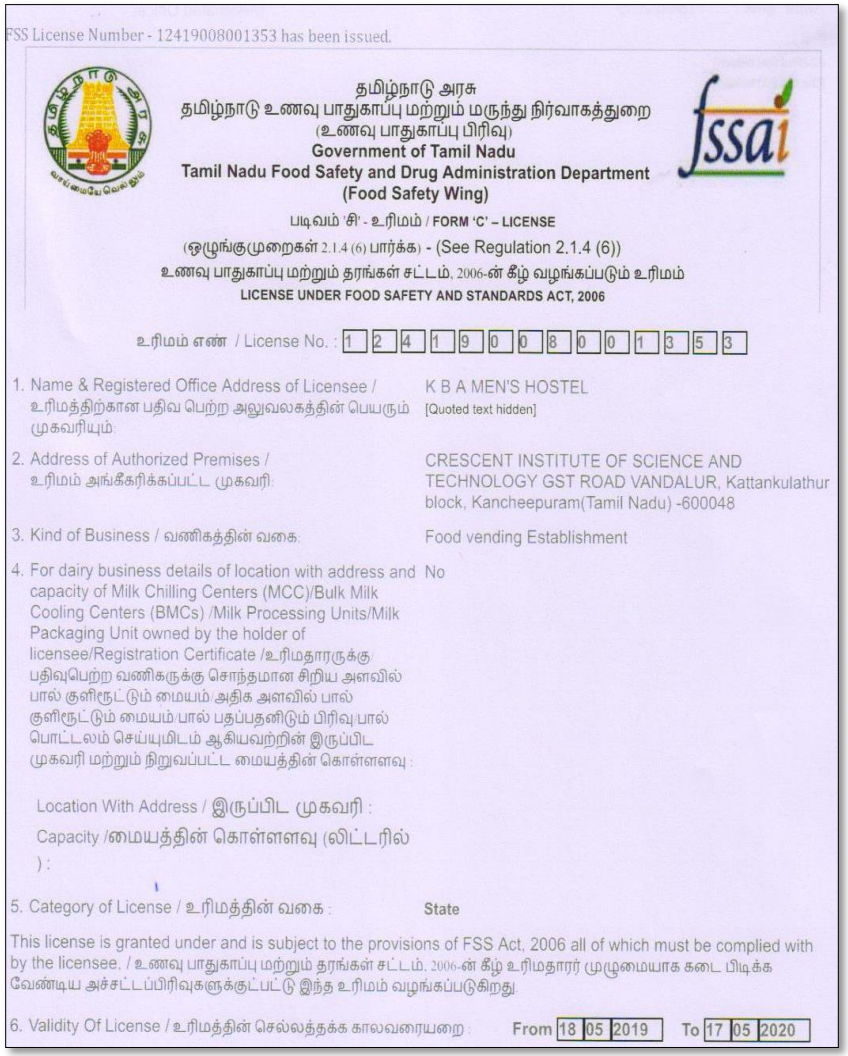
Email ID: vomm.noc@aai.aero
Contact No: 044-22560046

/TRUE COPY/
AS Verified with NOCAS - website of Airports Authority of India

NOTARY PUBLIC GOVT. OF INDIA
5/10/19
M. NALLA THAMBI, M.A., M.L.,
ADVOCATE & NOTARY PUBLIC
COMMISSIONER OF OATHS
No. 12, E.V.R. STREET,
MEENAMBAKKAM
CHENNAI-600 027.

राजीव गांधी भवन
Rajiv Gandhi Bhawan
सफदरजंग हवाई अड्डा नई दिल्ली–110003
Safdarjung Airport, New Delhi-110003
दूरभाष : 24632950
Phone: 24632950

Certification for Fssai & Halal Certificate for FOOD



FSS License Number - 12419008001353 has been issued.

தமிழ்நாடு அரசு
தமிழ்நாடு உணவு பாதுகாப்பு மற்றும் மருந்து நிர்வாகத்துறை
(உணவு பாதுகாப்பு பிரிவு)
Government of Tamil Nadu
Tamil Nadu Food Safety and Drug Administration Department
(Food Safety Wing)

படிவம் 'சி' - உரிமம் / FORM 'C' – LICENSE

(ஒழுங்குமுறைகள் 2.1.4 (6) பார்க்க) - (See Regulation 2.1.4 (6))

உணவு பாதுகாப்பு மற்றும் தரங்கள் சட்டம், 2006-ன் கீழ் வழங்கப்படும் உரிமம்

LICENSE UNDER FOOD SAFETY AND STANDARDS ACT, 2006

உரிமம் எண் / License No. : 12419008001353

1. Name & Registered Office Address of Licensee / உரிமத்திற்கான பதிவு பெற்ற அலுவலகத்தின் பெயரும் முகவரியும் : K B A MEN'S HOSTEL [Quoted text hidden]

2. Address of Authorized Premises / உரிமம் அங்கீகரிக்கப்பட்ட முகவரி : CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY GST ROAD VANDALUR, Kattankulathur block, Kancheepuram(Tamil Nadu) -600048

3. Kind of Business / வணிகத்தின் வகை : Food vending Establishment

4. For dairy business details of location with address and capacity of Milk Chilling Centers (MCC)/Bulk Milk Cooling Centers (BMCs) /Milk Processing Units/Milk Packaging Unit owned by the holder of licensee/Registration Certificate /உரிமதாரருக்கு பதிவுபெற்ற வணிகருக்கு சொந்தமான சிறிய அளவில் பால் குளிரூட்டும் மையம்/அதிக அளவில் பால் குளிரூட்டும் மையம்/பால் பதப்படுத்தும் பிரிவு/பால் பொட்டலம் செய்யுமிடம் ஆகியவற்றின் இருப்பிட முகவரி மற்றும் நிறுவப்பட்ட மையத்தின் கொள்ளளவு : No

Location With Address / இருப்பிட முகவரி :

Capacity /மையத்தின் கொள்ளளவு (லிட்டரில்) :

5. Category of License / உரிமத்தின் வகை : State

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee. / உணவு பாதுகாப்பு மற்றும் தரங்கள் சட்டம், 2006-ன் கீழ் உரிமதாரர் முழுமையாக கடை பிடிக்க வேண்டிய அச்சட்டப்பிரிவுகளுக்குட்பட்டு இந்த உரிமம் வழங்கப்படுகிறது.

6. Validity Of License / உரிமத்தின் செல்லத்தக்க காலவரையறை : From 18 05 2019 To 17 05 2020

Company Incorporation Number U74910PY2009PTC032337

HALAL INDIA CERTIFICATE

Eating Establishment Scheme

HIA53250717

Date of Expiry:

02 July 2018

This is to certify that the Eating Establishment(s) described below is/are certified Halal in accordance with Shariah (Islamic) Board Guidelines.

Name of the Organisation :

A B RESORT AND RESTAURANT PVT LTD

Certified Area/ Facility/

Cresent University Hostel Mess (Men)

Address :

BS Abdur Rahman Crescent University,
Seethakathi Estate, Vandalur,
Chennai - 600 048,
Tamilnadu , India.

Hussain Gani Baqavi
Shariah Board

Executive Director

The eating establishment(s) is Halal according to Shariah Board Guidelines and the Staff has been Trained for handling Halal products.

ISSUED DATE :03rd July 2017

The Certification validity is for one year from the date of issue

This certificate covers only food preparation

HQ:No.185,2nd Cross Street,Bharathiyar Nagar,Periya Kalapet, Pondicherry-14, India,Tel:(044) 43567446 / 42618147

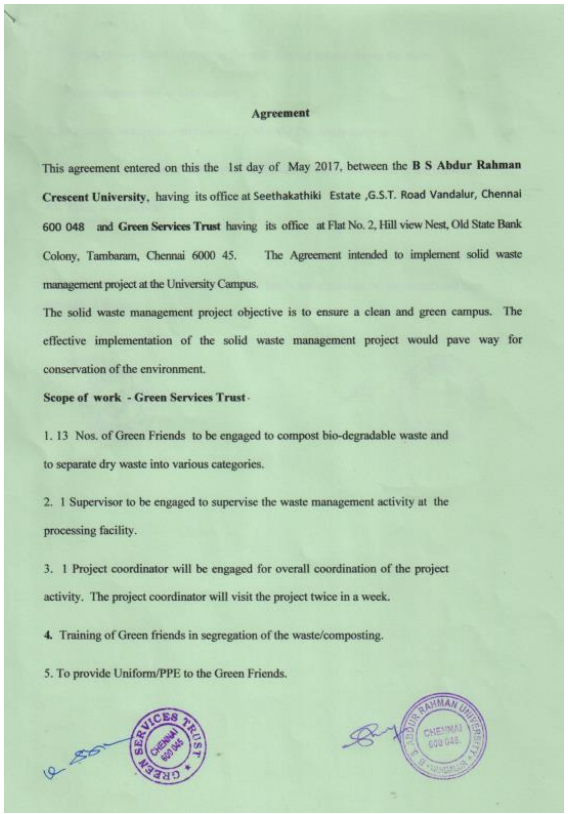
In-house disposal facilities

- Composting unit & Organic waste converter
- Biogas plant
- Garbage Incinerators
- Sanitary Incinerators
- Landfills

Dedicated staff (for waste collection and disposal)

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

A separate SWM team is deployed for this activity.



Agreement

This agreement entered on this the 1st day of May 2017, between the **B S Abdur Rahman Crescent University**, having its office at Seethakathiki Estate ,G.S.T. Road Vandalur, Chennai 600 048 and **Green Services Trust** having its office at Flat No. 2, Hill view Nest, Old State Bank Colony, Tambaram, Chennai 6000 45. The Agreement intended to implement solid waste management project at the University Campus.

The solid waste management project objective is to ensure a clean and green campus. The effective implementation of the solid waste management project would pave way for conservation of the environment.

Scope of work - Green Services Trust

1. 13 Nos. of Green Friends to be engaged to compost bio-degradable waste and to separate dry waste into various categories.
2. 1 Supervisor to be engaged to supervise the waste management activity at the processing facility.
3. 1 Project coordinator will be engaged for overall coordination of the project activity. The project coordinator will visit the project twice in a week.
4. Training of Green friends in segregation of the waste/composting.
5. To provide Uniform/PPE to the Green Friends.

Segregation & Measurement of solid waste in campus

- Segregation & Measurement for each type of Solid Waste is Undertaken.

- 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.

Waste collection data of Solid Waste Management

(up to March 2020)

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

S.No	Month & Year	Organic waste in Kg	Recycle waste Kg	Inert waste Kg	Total Waste in Kg
1	Jan'18	17,653	7280	1215	26,148
	Feb'18	13,529	7529	1721	22,779
2	Mar'18	11,648	8716	1496	21,860
3	April'18	10,782	7588	1537	19,907
4	May'18	5,912	7112	1794	14,818
5	June'18	5,643	6914	1801	14,358
6	July'18	10,997	6292	1892	19,181
7	Aug'18	9,880	5083	1696	16,659
8	Sept'18	9,610	5389	1580	16,579
9	Oct'18	9,910	5622	1705	17,237
10	Nov'18	9,325	5995	1521	16,841
11	Dec'18	9,726	4578	1620	15,924
12	Jan'19	9,524	5092	1684	16,300
13	Feb'19	10,142	5554	1507	17,203
14	March'19	10,122	5865	1715	17,702
15	May'19	1,630	7465	3015	12,110
16	June'19	2,260	5165	2675	10,100
17	July'19	9,135	2970	6500	18,605
18	Aug'19	9,730	2583	7100	19,413
19	Sept'19	13,260	1785	10850	25,895
20	Oct'19	12,600	1180	11350	25,130
21	Nove'19	17,100	1688	15450	34,238
22	Dec'19	15,600	1390	15700	32,690
24	Jan'20	21,900	2155	19800	43,855
25	Feb'20	23,900	2390	26700	52,990
26	March'20	14,950	1440	19100	35,490
	Total	**2,96,468**	**1,24,820**	**1,62,724**	**5,84,012**

Segregation of Solid Waste (@ source of the generation)

In our campus three different colour bins are provided in the various places

- Dry Leaf & Food Waste

- Waste Paper & Cotton boxes

- Waste Plastic & Covers

Dedicated staff (for waste collection and disposal)

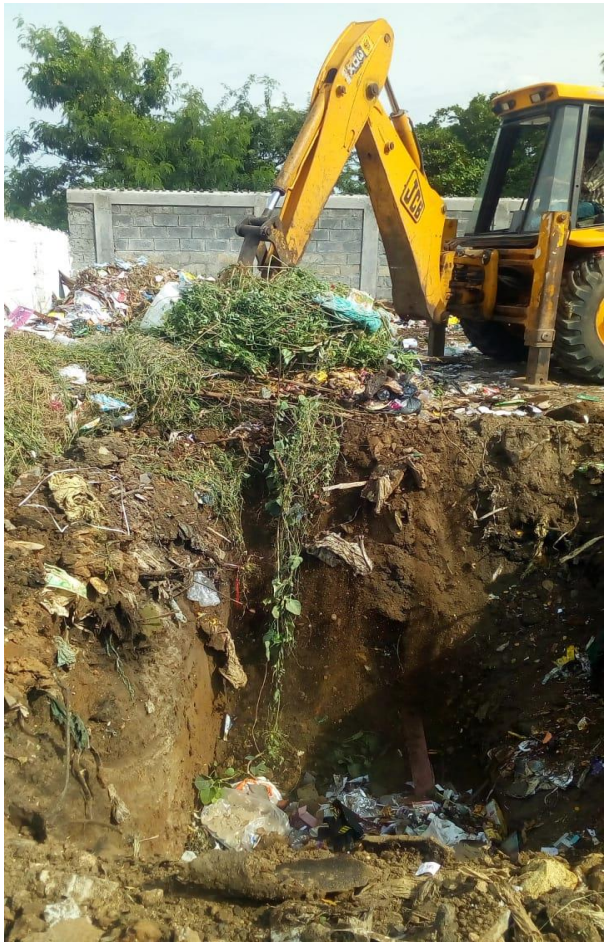


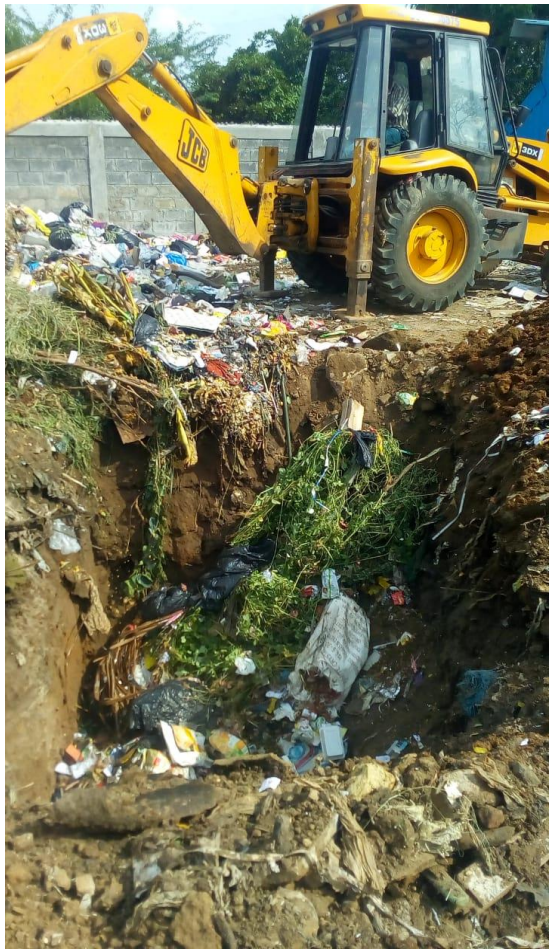






Landfills





Garbage Incinerators with 50Kg/hr capacity

- It reducing waste product to inert ash.
- Daily generation 500kg/day and generated fly ash being used as manure for gardening.
- Incinerated item will be less than 10% of their original bulk wt. when reduced to ash.
- It is use for waste paper, tea cup, dry garbage and kitchen dry waste.
- It is an alternate solution to landfill.

Dry leaf waste- Shredder Machine

Composting unit & Organic waste converter

- Composting unit & Organic waste converter
  - Ecobin (250 Kgs / day)

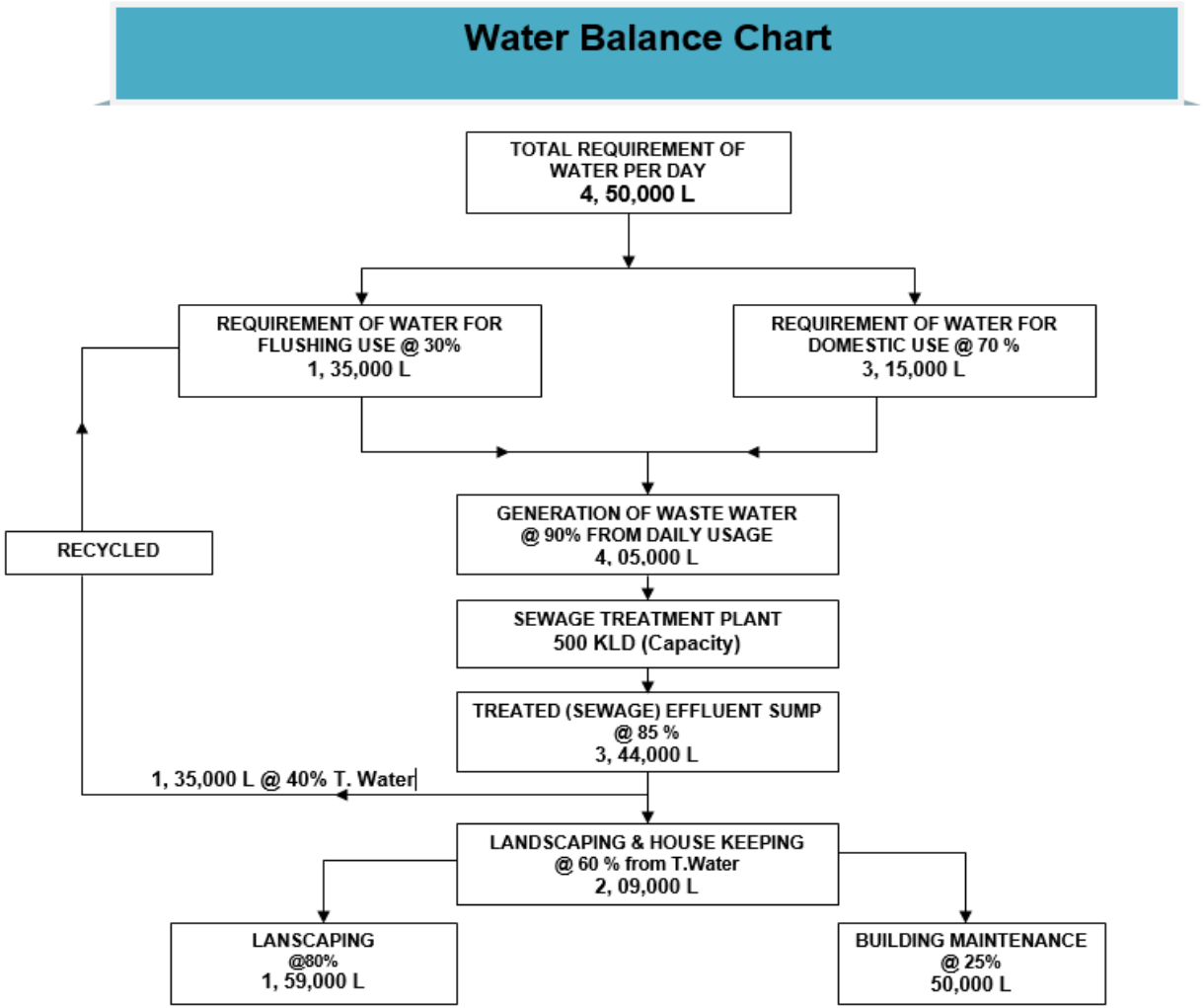
❖ Sanitary Incinerators

Waste / Napkin Burner (Attached with Wet Scrubber for Pollution Control)

STP- Recycle waste water

- Campus waste / Sewage / Effluent disposal system function
  - Zero Discharge
- Recycle waste water
  - Sewage Treatment Plant : 2 Nos.
  - Plant capacities : 500 KLD
- Usage of Recycled water
  - The treated water is used for landscaping and Dual Plumbing - flushing purpose.

Water Balance Chart

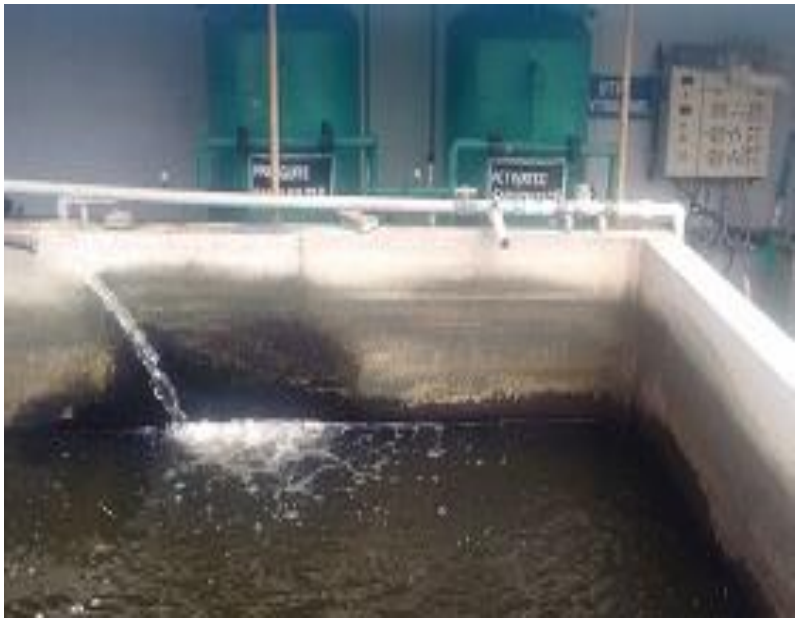


Water Consumption / Day (Statistics)

Sl. No	Water Consumption / Day Occupants	Occupancy in Nos	Consumption/Day in liters
1	College Student day scholars 45 lit/day @ 70% usage	3700	116550
2	Ladies Hostel 125 lit/day	470	58750
3	Men's Hostel 125 lit/day	1400	175000
4	Miscellaneous (1)College/ staff 45 lit/day	400	18000
	(2)Estate office staff 30lit/day	350	10500
	(3) General workers	280	8400
	(4) Kitchen and canteen	50	10000
5	Staff Quarters 125lit/day	400	50000
		7050	447200
6	Floating @ 5%	7403	10575
	Total water consumption/day in liters		4,57,775
	Avg. water consumption per capita/day		62

Percentage of Waste water recycling in campus

S.No	Location	Total water collected	Water recycled	% of water reutilized
1	College campus	250 KL	220KL	80
2	Men's Hostel	250 KL	220KL	80



Sprinkler System for Gardening

Biogas Methanization Plant

A Biogas plant of 50m^3 capacity in 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.

Biogas Generation (Statistics)

BIO GAS GENERATION FOR THE PERIOD OF APRIL 2018-MARCH 2020			
Month	**Total Gas consumed(cum)**	**Equivalent to LPG (KG)**	**Cost Saved**
April'18	195	87.75	5,839.00
May'18	138	62.1	4,105.00
June'18	11.03	4.96	327.82
Aug'18	110.814	49.86	3,296.42
Sept'18	55.56	25	1,993.58
Oct'18	51.196	23.03	1,941.79
Nov'18	49.905	22.45	2,006.32
Dec'18	17.099	7.69	608.72
Jan'19	180	81	5,280.00
Feb'19	366	164.7	12,062.00
Mar'19	153	68.5	5,016.00
Apr'19	360	162	10,560.00
May'19	178	80.1	5,510.00
Jun'19	94	42	2,601.00
July'19	192	86.4	5,679.00
Aug'19	274	123.3	7,289.00
Sept'19	186	83.7	5,170.00
Oct'19	330	148.5	9,371.13
Nov'19	190	85.5	5,935.50
Dec'19	112	50.4	3,535.95
Jan'20	92	41.4	2,139.00
Feb'20	80	36	2,232.00
March'20	56	25.2	1,465.00
Total	**4897.604**	**2202.94**	**149451.8**

CSIR - CLRI sponsored project – Biogas Plant 500 kgs/day (On going)

- Biogas Plant 500 kgs/day from CSIR-CLRI, Govt. of India, Chennai funded by DST New Delhi in collaboration with KANKYO Technologies.
- To handle the food waste generated from hostel kitchens and canteens
- It will generate 15-20 m^3/day gas from the plant and the same will be utilized for our cooking needs at Hostel kitchens and Canteens.
- The total cost of project is 35 lakh. (Crescent Contributed 10 lakh)

Installation Work in Progress

Digestive Tank

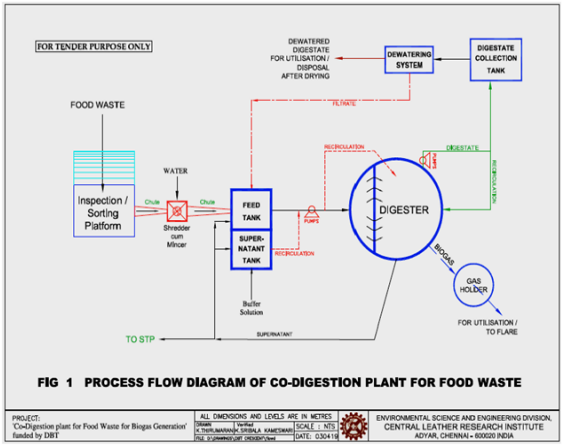


FIG 1 PROCESS FLOW DIAGRAM OF CO-DIGESTION PLANT FOR FOOD WASTE

Process Flow Diagram

Final View

Smart Campus – WTP Plant

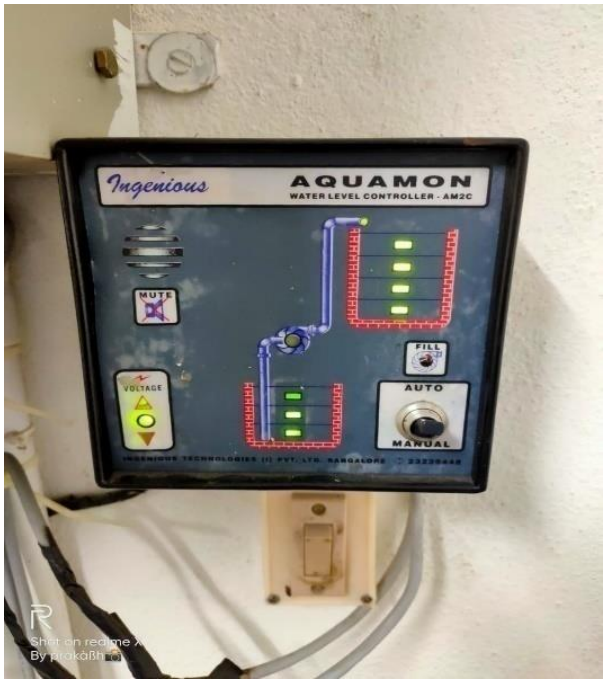
S.NO	LOCATION	CAPACITY	WORKING HOURS	REMARKS
1	New staff Quarters	5m^3/hr	10	Commissioned in Apr -2016
2	New ladies hostel	5m^3/hr	12	Commissioned in Aug -2016
3	Men's hostel service block	10m^3/hr	18	Commissioned in Aug -2016
4	VC Villa	1m^3/hr	4	Commissioned in Jan -2017
5	Life Science block	5m^3/hr	8	Commissioned in Aug -2017
Total Treated Water		335,000 Ltrs per day		

Smart Campus – R. O. Drinking Water

S. No	Location	Capacity Litres/ Hr	Working Hours Per Day	Qty of treated Water In Liters
1	Institute Main Plant- Near to Main block	1500	6	9000
2	Science block Terrace	1000	5	5000
3	Ladies hostel New block terrace	1000	5	5000
4	Men's hostel Dining hall	2000	4	8000
5	Men's hostel service block	2000	5	10000
6	Aeronautical block terrace	500	2	1000
7	Life sciences block terrace	500	2	1000
Total Treated Water		8500		40500

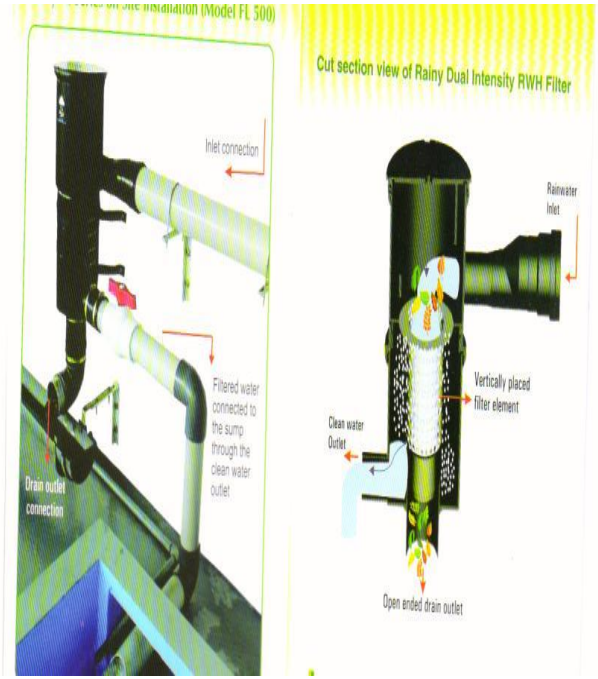
Water - efficient Appliances in the Campus

- Using sensors for automated flushing
- Automatic water level controller for avoiding overflow in overhead tanks



Rain Water Harvesting

S.No	BLOCKS	Number of Rain Water Harvesting	Quantity of Water Collected (Liters)
1	Life Sciences Block	1	10000
2	New Architecture Block	1	10000
3	Computer Science block	1	10000
4	Pharmacy Block	1	10000



Special Features

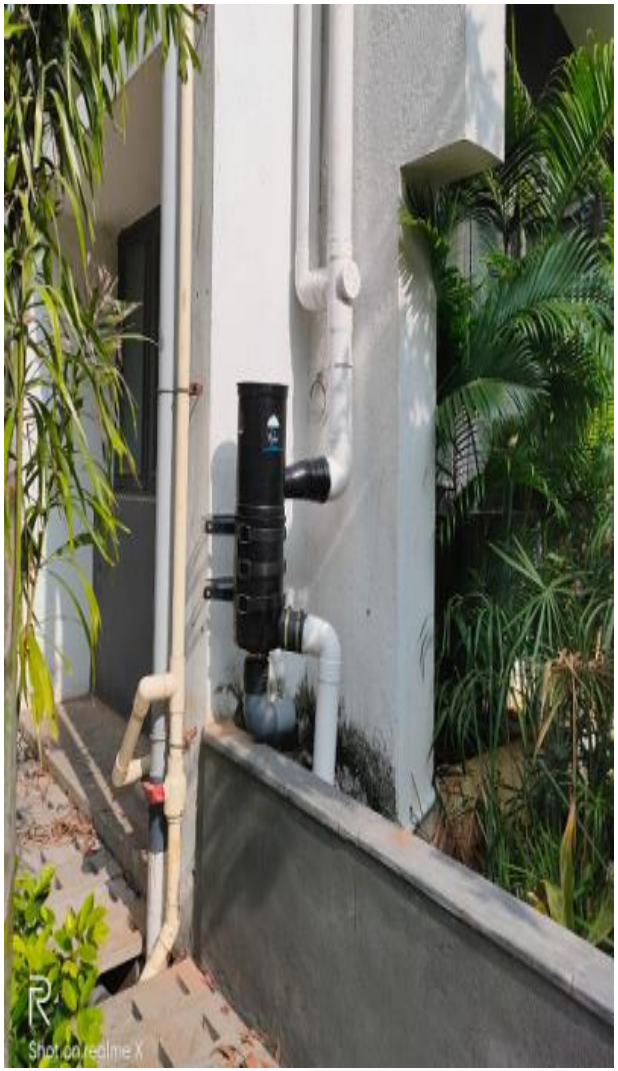
- Dual intensity filter works on the principle of cohesive & centrifugal force.
- Works on Gravitational force (No external energy required).
- Compact in size and wall mounted.
- Automatic flush out of dirt particles.
- Flexibility in pipe connection to any angle and degree.

Rain Water Harvesting

Architecture Block

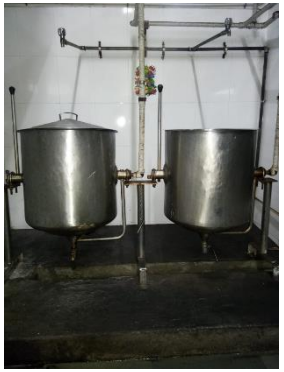
Computer Science Block

Collecting Sump



Pharmacy Block

Cooking Equipment



Crescent Canteen

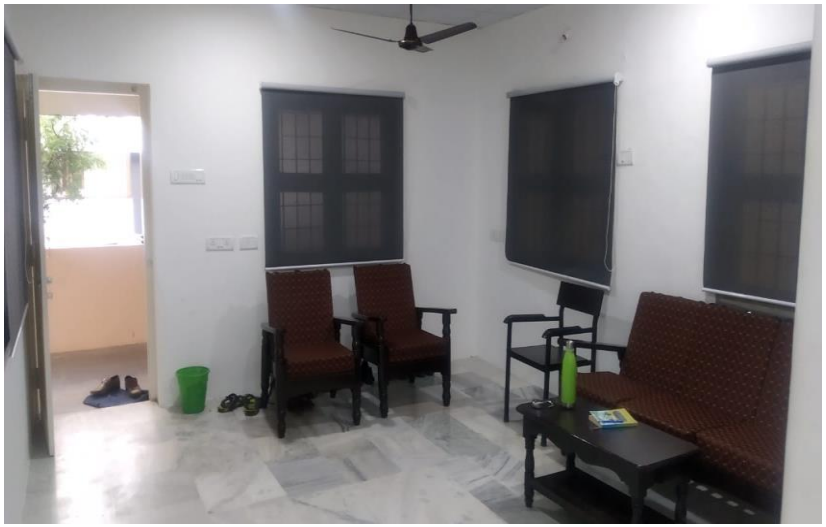
Smart Campus - Dish Washer & Laundry Service

Men's Hostel

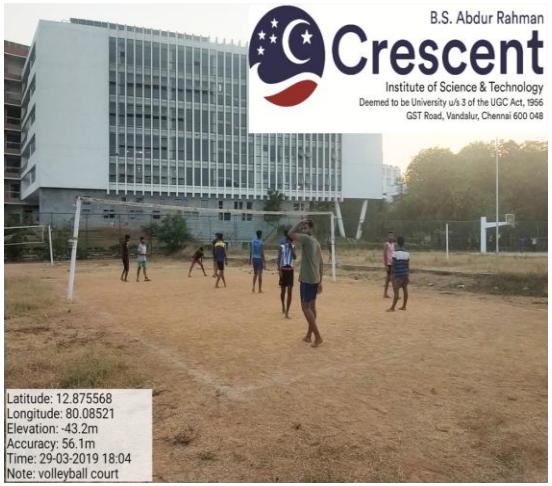
Women's Hostel

Laundry Facilities

Hostel Furniture & Fittings



Fitness Center, Swimming Pool, Basket ball, Volley ball court and Foot ball ground



Bank and ATM point, Book and Stationery Store and Aircraft

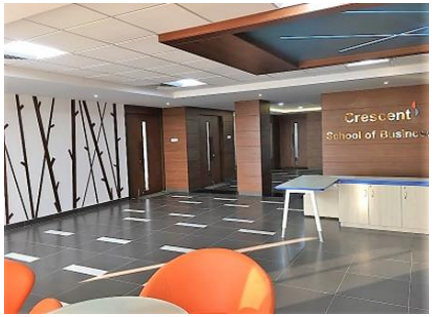
Central Computing facilities and APPLE ios Centre

LED Fixtures

SL NO	BUILDING	QTY	TOTAL WATTS
1	AUDITORIUM	156	2059
2	SCIENCE BLOCK	250	2829
3	AERO BLOCK	458	5064
4	MAIN BLOCK	42	602
5	MBA BLOCK	23	597
6	FIRST YEAR BLOCK	7	105
7	LIFE SCIENCE BLOCK	80	1818
8	STAFF QUARTERS	341	4295
9	LADIES HOSTEL	284	3974
10	CAMPUS STREET LIGHT	136	3730
11	MEDICAL	21	309
12	PHARMACY	13	601
13	GM OFFICE	27	510
14	CANTEEN	29	682
15	VC OFFICE	72	450
16	VC VILLA	27	193
17	GUEST HOUSE	17	280
18	DRIVERS CABIN	8	120
19	STAFF QUARTERS	5	45
20	SPORTS LIGHTING	29	5800
21	HR OFFICE	5	60
22	PARANTS WAITING HALL	12	166
24	NEW ARCHITECTURE BLOCK	588	10288
25	CIVIL YARD CLASS ROOMS	30	450
26	CSB ROOM MENS HOSTEL	32	480
27	ROBOTICS LAB	22	280
28	RESEARCH SCHOLAR ROOM CHEMISTRY	4	144
29	FOOD WASTE MANAGEMENT PLANT	8	220
30	SOLAR STREET LIGHT	10	250
31	MENS HOSTEL	182	1166
32	MBA PHASE 1	49	595
33	MBA PHASE 2	80	588
34	COMPUTER SCIENCE LAB	24	250
35	PURCHASE OFFICE (EO)	2	30
36	CIIC BLOCK	88	1624
37	CIIC 2ND FLOOR STUDIO	13	225
TOTAL		**3174**	**50879**

BEE 5-Star Rated Air Conditioners :

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



LED Fixtures

LED light fixtures are being extensively used for all new interior renovation works in the campus. So far, 50.87 kW capacity of LED lights are fixed which provide around 70% energy saving compared to conventional lighting.

BEE 5-Star Rated Air Conditioners

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.

Passive Infrared Motion Sensor Lights

Motion Sensor lights are provided in computer science lab, staff cabins and Toilets for energy savings.

Solar Power

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Renewable Energy in campus - Roof-Top Solar Power Plants - 550 KW_p






Solar Power

❖ Roof-top Solar Power Plant I of 150kWp capacity commissioned in June 2014 at a cost of 1.32Cr. Return on Investment is 1.09 Cr.

❖ Roof-top Solar Power Plant II of 100kWp capacity commissioned in October 2014 at a cost of 62Lacs. Return on Investment is 73.50 Lacs.

❖ New Roof-top Solar Power Plant III of 300kWp capacity commissioned in October 2018 at a cost of 1.20Cr. Return on Investment is 57.82 Lacs.

❖ Total power generated through the Solar PV plants is 27,04,654 units till 31st July 2020, our average monthly energy saving is 43 %.

❖ Installation of additional 100 Kwp Solar PV project on the RCC Roofs of School of Architecture Building and Innovation & Incubation Centre at a cost of Rs. 40 lakhs. (Work in progress)

Solar Power

Google Satellite Map View

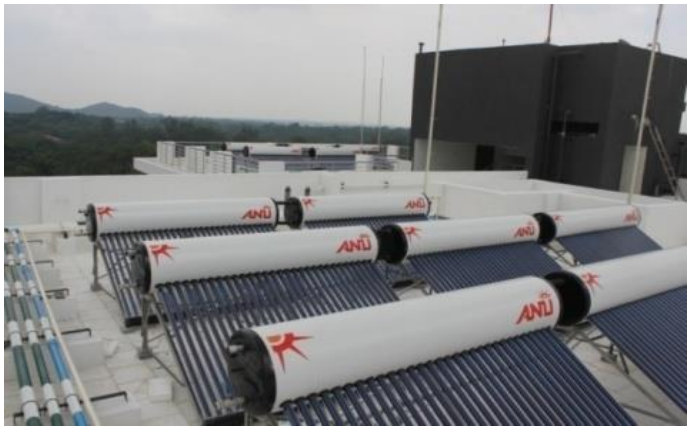
Clean Energy (Statistics)

Sl. No.	Month & Year	Energy Consumed from Utility Grid(EB) Units(kWh)	Energy Generated By Solar Plant Units(kWh)	Energy Generated By DG Unit Units(kWh)	% of Energy Saved by 550 KW_p Solar Plant
1	Sep-19	331392	146624	848	30.61
2	Oct-19	284772	147521	938	34.05
3	Nov-19	315108	138542	879	30.48
4	Dec-19	175296	142232	804	44.68
5	Jan-20	188682	146354	786	43.58
6	Feb-20	251885	144241	602	36.35
7	Mar-20	208862	147723	762	41.33
8	Apr-20	75000	88472	532	53.94
9	May-20	83508	81872	632	49.31
10	Jun-20	74532	78872	724	51.17
11	Jul-20	68928	76872	821	52.42
12	Aug-20	71196	71872	914	49.91
				Average Energy Saved by Solar plant	**43.15 %**

Solar Water Heaters

Men's Hostel

Ladies Hostel



New Staff Quarters

MEN'S HOSTEL		
Block	No. of tanks	Capacity in litres
A Block	20	5000
B Block	6	3000
C Block	6	3000
D Block	8	4000
Main block	20	5000
PG block	12	3000
LADIES HOSTEL		
Main block	10	5000
Annexe Block		
New Block Phase 1	11	2750
STAFF QUARTERS		
New Staff Quarters	23	5750
Total Capacity	116	36,500 Litres

Installed total capacity of 36,500 litres. This is equivalent to 365 Nos electric geysers of 2kW capacities. The power saving is estimated to be around 24 Lacs per annum.

Solar Street Lights in campus

Installed towards staff quarters to Men's hostel road and Architecture block area. This project was done by our III yr. EEE students along with our Estate electrical dept. team.

Power supply & Back-up power capacity

Demand contracted from TANGEDCO: 1200KVA

Transformer Capacity	Make	Voltage Ratio	Year of Commissioning
800KVA	Universal	11KV /433V	2008
800 KVA	Universal	11KV /433V	2008

500KVA DG

Back-up power capacity: 1250kva (100%)

DG Set Capacity	Make	Year of Commissioning
500KVA	Cummins	2004
750KVA	Perkins	2013

750KVA DG

Sub- meters are provided in Canteens, Hostels, Quarters, etc.,

Energy Consumption (Statistics)

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Sl. No.	Month & Year	Energy Consumed from Utility Grid(EB) Units(kWh)	Energy Generated By Solar Plant Units(kWh)	Energy Generated By DG Unit Units(kWh)	Total Energy Consumed Units(kWh)
1	**July 2019**	234173	127431	1246	362850
2	**Aug 2019**	258204	123715	1132	383051
3	**Sep 2019**	331392	124624	948	456964
4	**Oct 2019**	284772	120521	1048	406341
5	**Nov 2019**	315108	128542	1279	444929
6	**Dec 2019**	175296	110232	1204	286732
7	**Jan 2020**	188682	128354	1286	318322
8	**Feb 2020**	251885	130241	1802	383928
9	**Mar 2020**	208862	134723	1172	344757
	Total	**2248374**	**1128383**	**11117**	**3387874**

Per Capita Energy Consumption

Average Electricity = Total units used/12 months

X = 3387874/12

= 282322

Average Population per month = Total population/12 months

Y = 8000/12

= 666.67

Per Capita Electricity consumption = Average Electricity (X)/Average Population (Y)

= 282322 / 666.67

= 423 Units/person/year

Per Capita Electricity consumption = 423 / 365

= 1.16 Units Per person per Day

Eco-friendly Conveyance

As a step towards complete pollution – free environment in campus, Students and Staffs are commute from Main gate to Hostel and avoid Motor cycle movement inside campus (More than 100 bicycles).

Eco-friendly Conveyance

Battery Operated Golf cart

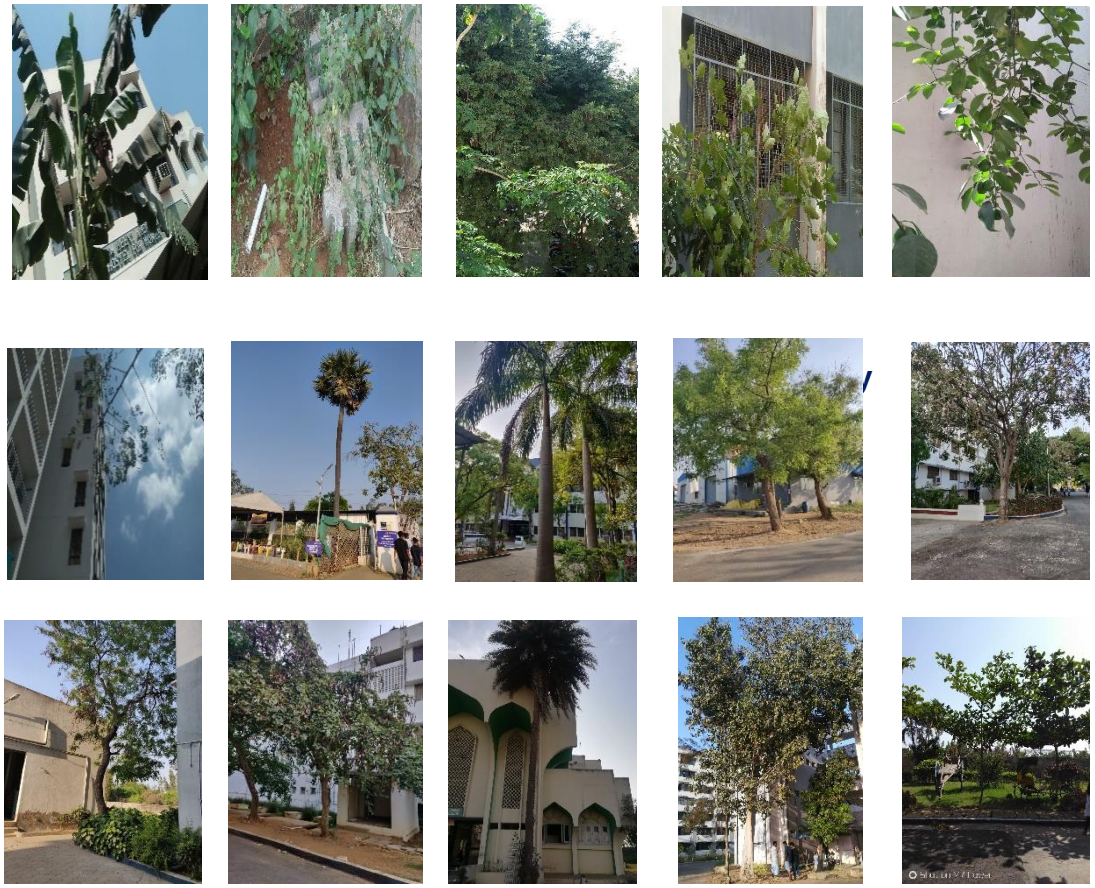
Hero Electric Bike

Eco Friendly Load Vehicle

Flora & Fauna in Campus

More than 30 Nos.

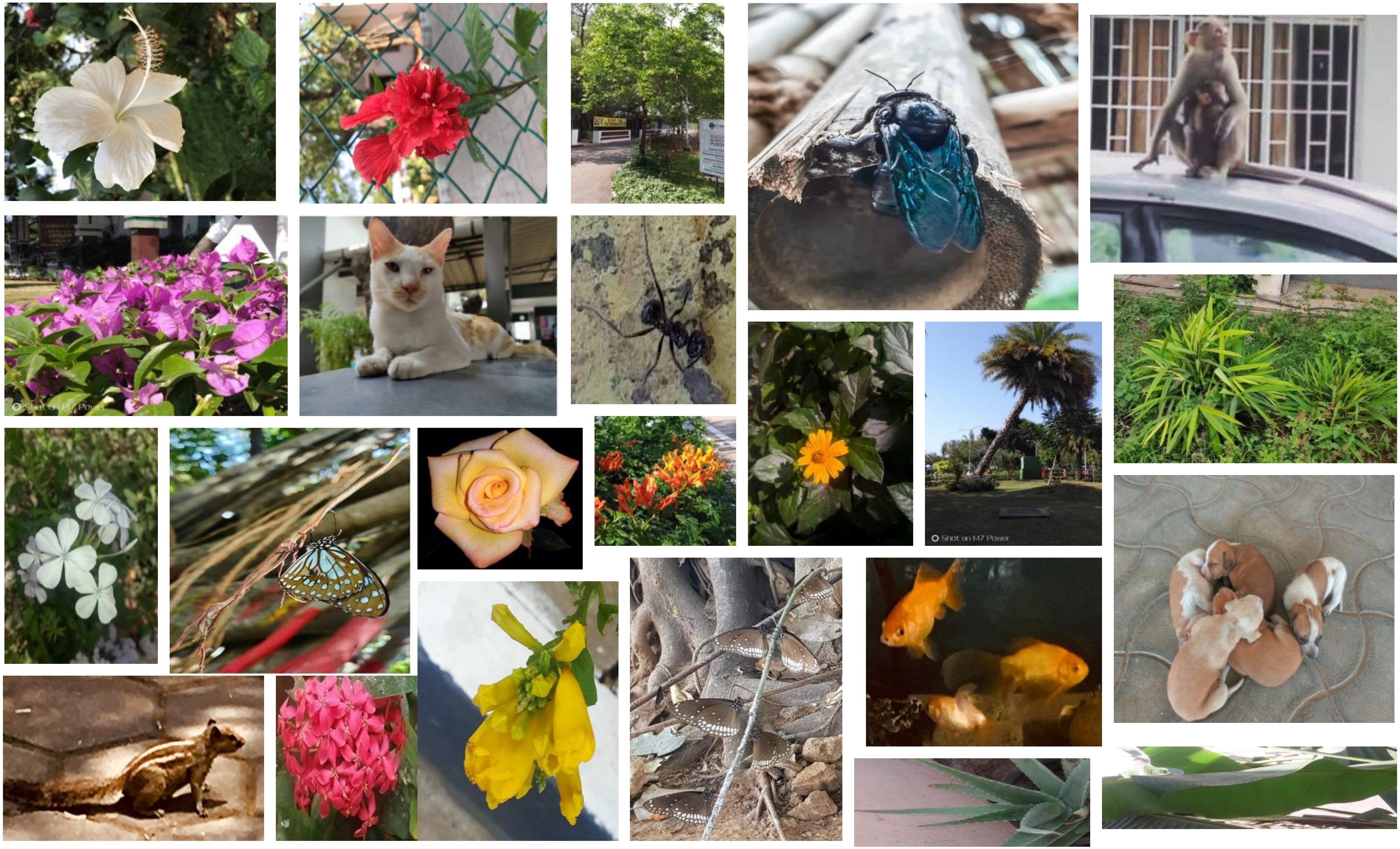
TREES	TOTAL Nos.
NEEM TREE	269
PORTIA	51
TAMARIND	22
MANGO TREE	33
BRACKEN TREE	253
COCONUT TREE	48
SPIKELET	145
ASH	40
ARECA	49
CASUARINA	36
SPASMA	6
ALMONDS	18
KING TREE	3
BANYAN TREE	4
PALMYRA	4
TEAK TREE	35
BEEMA BAMBOO	2075
TOTAL	**3094**



Vegetable Species

Our Campus - Flora & Fauna

B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956



Per capita Plantation

5 to 10 Nos.

- The mega tree plantation event in the view of eco friendly Independence Day celebration 2018.
- Tree Plantation was done by all delegates, university staff and the students. Around 1000 saplings are planted beside the KBA men's hostel and in the ground.
- The students planted the saplings in the afternoon session on 14th August and the staff's joined the plantation drive on 15th August -2018.



Sample Evidence for Tree Plantation

OXYZONE Campus – Beema Bamboo Plantation (2000 Nos)







- Planted bamboo saplings for 5000 sft run area throughout our compound to absorb dust, CO_2 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 .

OXYZONE Campus





Beema Bamboo planted in various location inside the Campus

OXYZONE Campus

We are the proud owner of “Tissue cultured bamboo plant” of variety “Beema”. This is one of the super bamboo, developed by a Biotechnology lab, grown in greenhouse for six months and now it is ready for planting in the soil.

The full growth of the bema bamboo is achieved only by providing the best care by us; both at the time of planting ad growing it for at least 4 to 5 years.

Every plant when it is fully grown to its best growth generates over 300kg of oxygen every year, it is just sufficient for one person for a whole year.

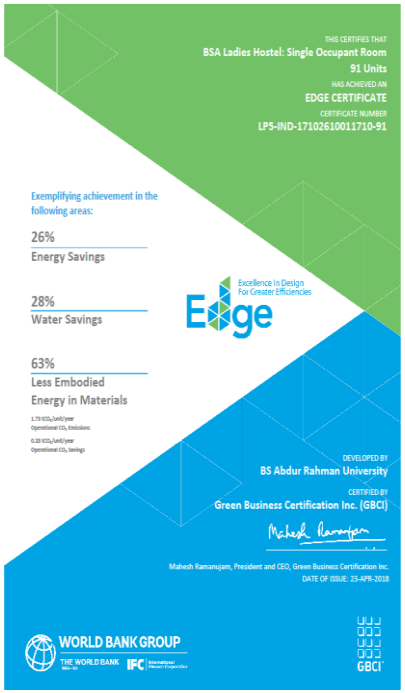


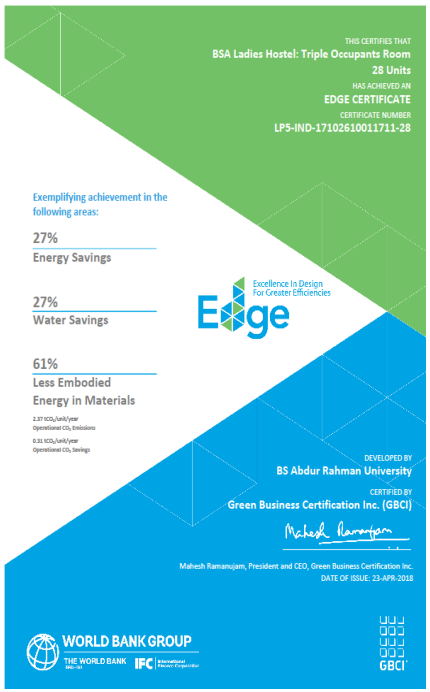

Green Building Certification

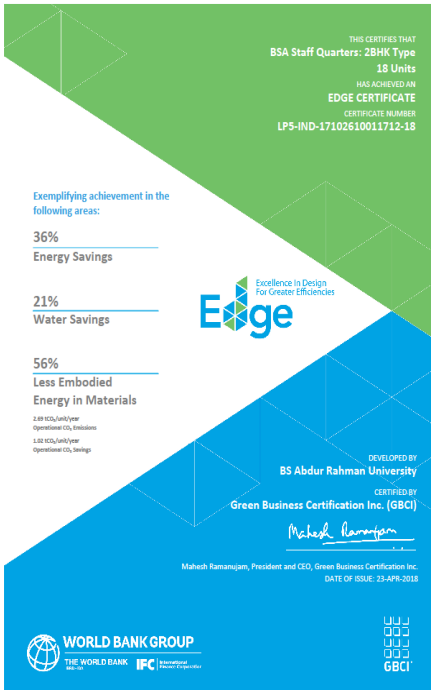
- Buildings constructed in last 7 years are registered with USGBC / GBCI-EDGE for Green Building Certification and are in document submission stage of certification for Gold rating.
- GBCI-EDGE Green Building certification received for New Ladies Hostel and New Staff Quarters.

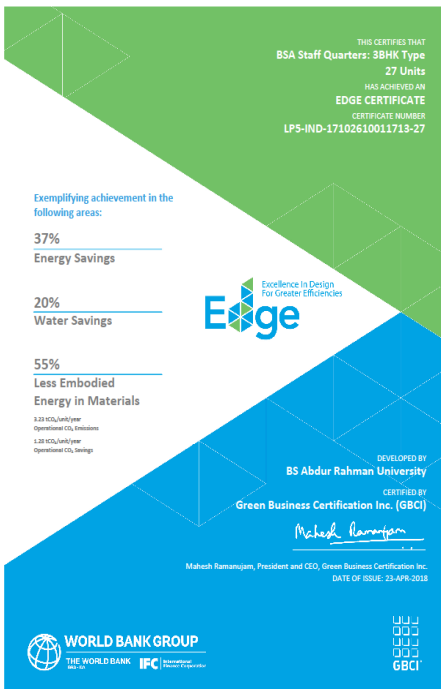
S.No	Name of the building	Plinth area	Covered area	Estimated cost	Date of completion	Certificate applied to
1	School of Life sciences Block	58,000.00	G+7 (RCC)	110,200,000	2013	USGBC
2	School of Mechanical science block	135,000.00	G+7 (RCC)	310,500,000	Dec 2014	USGBC
3	VC Villa	4,300.00	G+1 (RCC)	9,030,000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

Green Building Certification





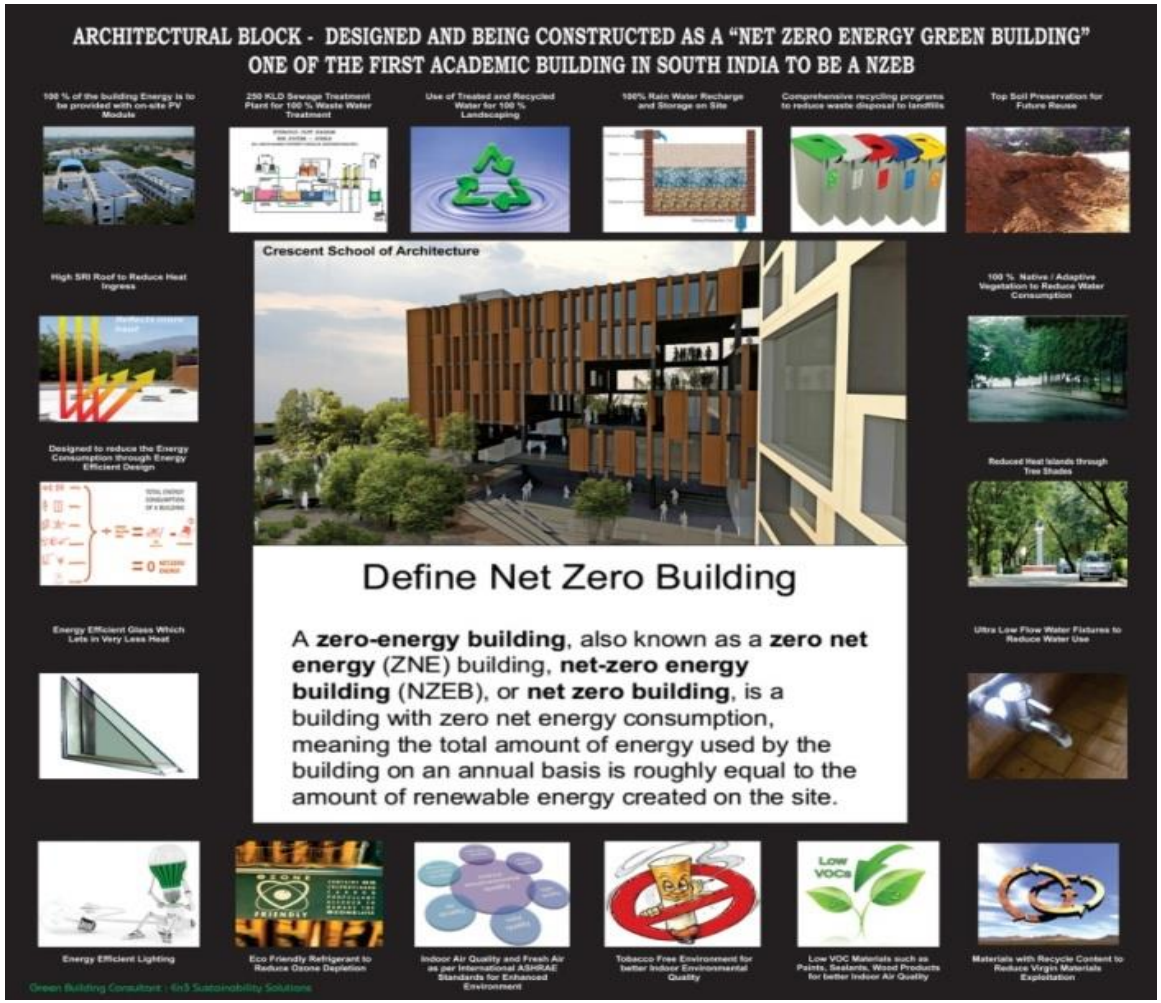




New Ladies Hostel single Occupant room 92 units & Triple Occupant room 28 units

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

Net Zero Building



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

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

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

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.

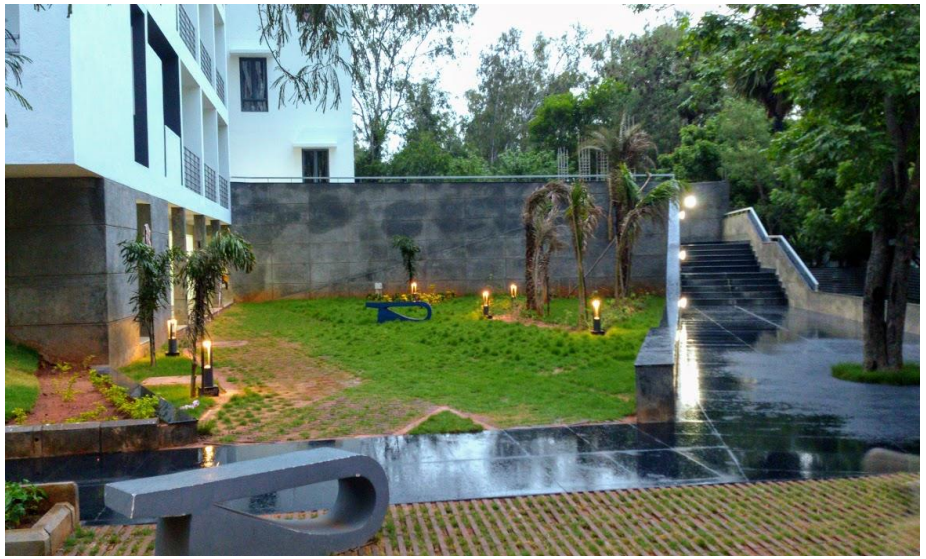
6.Promoting low - carbon practices among campus community.

7.Minimizing waste and pollution through effective waste management.

8.Innovation in building Design with improved daylight and natural ventilation

Green Practices in Construction

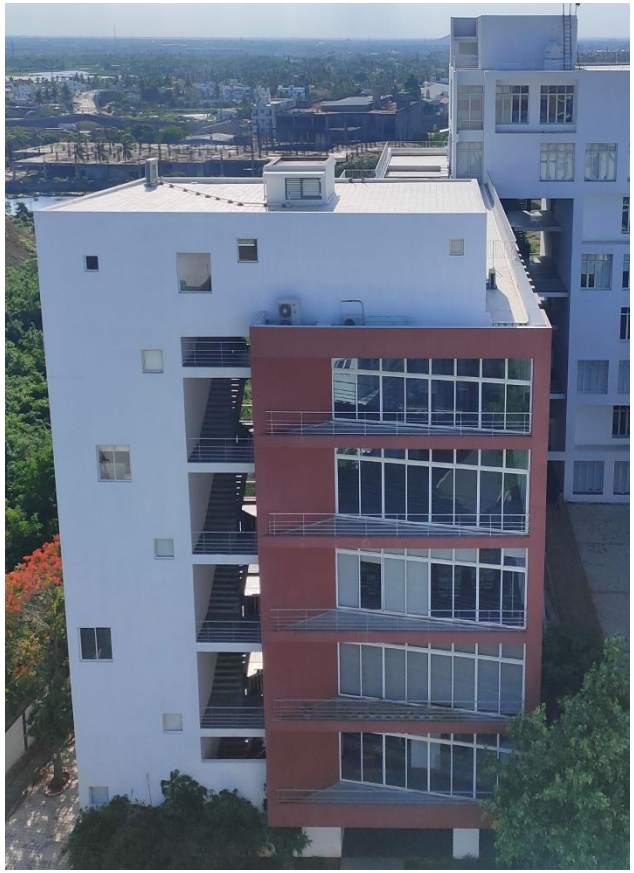
Grasscrete : Method of laying Grass paver flooring ,walkways ,sidewalks and driveways to improve storm water absorption and drainage



- School of Mechanical Sciences Building
- School of Architecture Building
- New Staff Quarters Building

Green Practices in Construction

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



Carbon Footprint

Carbon Foot print / Capita

Activity Data	type	unit	GHG	Emission factor	Quantity	CO_2 emission /year
Transportation	petrol	liters	$kgCO_2e$	2.196	1300	**2855**
	diesel	liters		2.65	381461	**1010872**
Electricity		kWh	$kgCO_2e$	1.2	4376492	**5251791**
paper consumption		kg	$kgCO_2e$	0.683	21900	**14958**
water consumption	water supply	cum	$kgCO_2e$	0.8	160611	**128489**
solid waste		kg	$kgCO_2e$	3.7	259560	**960372**
TOTAL CO_2 Emission Per Year		Kg	$kgCO_2e$			**7369336**
Over all carbon foot print / year		Ton				**7369**
Total population (avg)						7000
Carbon foot print per capita in Ton						**1.05**

National average per capita	**1.58 Ton/Capita/Year**
Actual CO_2 emission	**1.05 Ton/Capita/Year**
% of CO_2 emission - on national avg.	**66.63%**
% of CO_2 reduced from National avg.	**33.37%**

Carbon Offsetting

Total Carbon Emission : 7369 tons/year

Classification of Green Areas	Area	Unit	CO_2 (avg.) absorption rate t/year	Total CO_2 absorption ton/year
Area of Tree - ref Google Map	2	Acre	160	336
Lawn & plant area	14	Acre	15	211
Beema Bamboo	2.5	Acre	80	200
Total green area in acre	19	Acre		
Total CO_2 Absorption				**747**
% of CO_2 offset within the campus				**10.13%**

% of Green Area	**37.86%**

- 10% of Carbon foot print is offset by the above environment – friendly measures in campus.

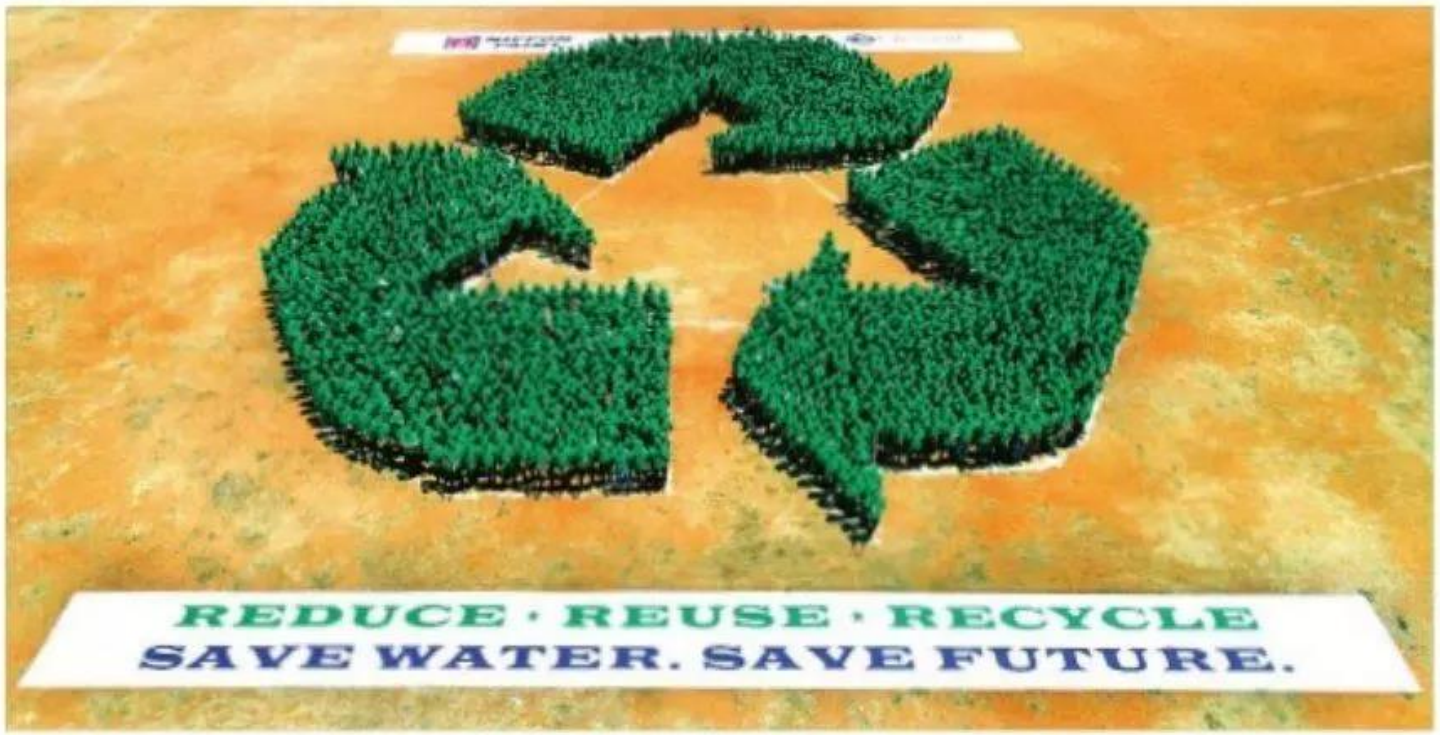
New AC Busses – Bharat Benz

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

New AC Busses – Bharat Benz

Other Busses – Ashok Leyland, Swaraj Mazda, Eicher and Tempo traveller

Guinness Record - Green Initiatives



IN GUINNESS BOOK, WITH FUTURE PERFECT VISION

- To mark World Water Day, 1,726 students and staff of BS Abdur Rahman Crescent Institute of Science and Technology, clad in green t-shirts and caps, formed a human recycling logo measuring 45ft by 75ft
- This was recognised by Guinness World Records as the largest formation of the 'recycle symbol' so far, breaking the record made by 751 people in Turkey. The event was organised by *TNIE* and Nippon Paint
- The achievement, which was recognised by Asian Book of World Records as well, came despite the despite the scorching afternoon heat. It took the students three hours to get the formation right

THE NEW INDIAN EXPRESS Sat, 24 March 2018
epaper.newindianexpress.com//c/27289727

Sponsored by Nippon Point

Green Policies

- We have Green Policies in our Institute and it is valid and well-circulated to all the stakeholders
- Institution implemented various green programs in neighbouring communities
- Anti-Drug Awareness Programme and a Visit to Karanai Puducherry Village on 16 & 17 July 2018.
- Traffic and Helmet Awareness Campaign 23rd July 2018.
- Arasankalani Lake Cleaning on 28 July 2018.
- Kerala Flood Relief Materials Contributions on 20th August 2018.

Green Initiatives in the neighbouring communities

- Anti Drug Awareness Programme and a Visit to Karanai Puducherry Village on 16 & 17 July 2018

- Participation in Mega Tree Plantation at Mahindra City on 30th September 2018

- Youth Awakening Day Programme Conducted on 12th October, 2018, at Panchayat Union Middle School, Keerapakkam, Chennai

  - Youth Awakening Day' in Commemoration of Dr A P J Abdul Kalam Birth Anniversary on 15th October, 2018.

  - Diwali Celebration At Good Life Centre,Tambaram On 1st Nov 2018.

- Observance of World AIDS day 2018 at CRESCENT on 1st Dec 2018.

Green Initiatives in the Neighbouring Communities

Participation in UBA / SAGY (Swachhata Activities)

UBA – TOI Green Initiatives

UBA Team at Adopted Village (Swachta Activities)

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Keerapakkam & Karasangal villages











Participation in Climate Change Conferences

TERRE Policy Centre — Technology, Education, Research and Rehabilitation for the Environment — Leading platform for development through Alternate Path

SCCN SmartCampusCloudNetwork

UNESCO United Nations Educational, Scientific and Cultural Organization

SRM INSTITUTE OF SCIENCE & TECHNOLOGY (Deemed to be University u/s 3 of UGC Act, 1956)

Concept Note

Roundtable Consultation

on

"Mainstreaming SDGs in Education by Building Partnership through Smart Campus Cloud Network (SCCN)"

Organizers: SRM University and TERRE Policy Centre

Date: 18th May 2019

Climate Change – Events Organized

- SERB Sponsored National Workshop on “Impact of Climate Change on Durability of RCC Structures (ICCDRS’16)” was organized during 19th – 24th April 2016.

- SERB Sponsored National Workshop on “Urban Disasters – Nature’s Fury or Human Negligence” was organized during 19th – 24th September 2016.

- DST-SERB Sponsored International Conference on “Innovative Technologies for Sustainable Built Environment (ITSBE’17)” was organized during 14th – 16th March 2017.

- Department of Civil Engineering Celebrated UN World Water Day and Inaugurated Eco Club on 22nd March 2017.

- Department of Civil Engineering Celebrated UN World Water Day and Inaugurated Eco Club on March 22nd 2017.

- Dr.S.Balaji (IFS), Chief Principal Conservator of Forest (Retd). inaugurated the ECO –CLUB by handing over the Plant Sapling to Dr.P.Vasanthi (HOD), Dr.M.S.Haji Sheik Mohammed (Dean), Dr.M.V.Molykutty (Professor) and also Planted a sapling infront of our Convention Centre.

Climate Change – Events Organized

SPONSORSHIP CERTIFICATE

Dr./Mr./Ms.______________
is a bonafide student/staff of our institution. I am pleased to sponsor him/her to attend the six days National Workshop on "Impact of Climate Change on Durability of RCC Structures (ICCDRS'16)" to be held at B.S. Abdur Rahman University, Vandalur, Chennai, if selected.

Place:
Date:
Office Seal

Signature of the Sponsoring Authority

IMPORTANT DATES

Submission of application - 21.03.16
Acceptance Notification - 25.03.16
Workshop - 19.04.16 to 24.04.16

REGISTRATION FEE

Delegates from Industries - Rs. 4,000/-
Academicians - Rs. 2,500/-
Research Scholars and Students - Rs. 1,500/-

Address for Correspondence:

Dr. M.S. Haji Sheik Mohammed
Professor & Dean,
School of Infrastructure,
B.S.Abdur Rahman University,
Vandalur, Chennai – 600 048.
Email: hajisheik@bsauniv.ac.in
Tel:+91-44-22751375, 2249 0431/5350/0853
Fax : (044) 22750520
Mobile : 9551617817

B.S.ABDUR RAHMAN UNIVERSITY

ACCREDITED WITH 'A' GRADE BY NAAC

National Workshop on
"Impact of Climate Change on Durability of RCC Structures (ICCDRS'16)"
Environmental Effects, Mechanism of Attack on Structures, Preventive Measures and Rehabilitation Techniques

19th - 24th April 2016

Convenors
Dr. M.S. Haji Sheik Mohammed, Dean, School of Infrastructure
Dr. P. Vasanthi, Professor & Head, Civil Engineering

Co-ordinators
Dr. U. Sabura Banu, Professor, EIE Department, BSAU
Mr. S. Shafeer Ahamed, Assistant Professor, Civil Engg., BSAU
Ms. V. Roopa, Assistant Professor, Civil Engg., BSAU

Sponsored By: SCIENCE AND ENGINEERING RESEARCH BOARD (SERB)
Supported By: INDIAN CONCRETE INSTITUTE

Organized by
Department of Civil Engineering
School of Infrastructure
B.S. Abdur Rahman University

National Workshop on
Impact of Climate Change on Durability of RCC Structures (ICCDRS'16) -
Environmental Effects, Mechanism of Attack on Structures, Preventive Measures and Rehabilitation Techniques
April 19-24, 2016
REGISTRATION FORM

Name :
Affiliation / Organization :
Postal Address :
Tel. & Mobile :
Email address :

Is accommodation required? Yes [ ] No [ ]
DD Details :
DD No. ______ dated ______
Bank ______
(Crossed Demand Draft in favour of "Registrar, B.S. Abdur Rahman University" payable at Chennai, India)

Place :
Date:
Signature

‘இயற்கை பேரழிவை கணிக்கும் தொழில்நுட்பம் மேம்பட வேண்டும்’

விழாவில் (இடமிருந்து) கருத்தரங்க ஒருங்கிணைப்பாளர் வி.வந்தனா தேவி, துணை வேந்தர் வி.எம்.பெரியசாமி, தேசிய பசுமைத் தீர்ப்பாய முன்னாள் சிறப்பு உறுப்பினர் ஆர்.நாகேந்திரன், பதிவாளர் வி.முருகேசன், கட்டடவியல் துறைத் தலைவர் வசந்தி பத்மநாபன்.

தினமணி Tue, 20 September 2016
https://epaper.dinamani.com/c/13351509

SPONSORSHIP CERTIFICATE

Dr./Mr./Ms.
is a bonafide student/staff of this institution. I am pleased to sponsor him/her to attend the six days National workshop on URBAN DISASTERS - NATURE'S FURY OR HUMAN NEGLIGENCE? to be held at B.S. Abdur Rahman University, Chennai.

Place :
Date :
Office Seal :

Signature of the Sponsoring Authority

IMPORTANT DATES
Last date for Registration : 08.09.2016
Acceptance through E-mail : 09.09.2016

REGISTRATION
Delegates from industries - Rs. 3,000
Academicians - Rs. 2,000
Research Scholars/Students - Rs. 1,000

CONVENERS
Dr. M.S. Haji Sheik Mohammed, Professor & Dean, School of Infrastructure, BSAU.
Dr. Vasanthi Padmanabhan, Professor & HOD, Civil Engineering, BSAU

CO-ORDINATOR
Dr. V. Vandhana Devi, Associate Professor, Civil Engg., BSAU

ADDRESS FOR COMMUNICATION
Dr. V. Vandhana Devi
Workshop Co-ordinator
Department of Civil Engineering
B.S. Abdur Rahman University
Chennai - 600 048.
Mobile : 9884619992
E mail: vandhanadevi@bsauniv.ac.in

National Workshop on
URBAN DISASTERS- NATURE'S FURY OR HUMAN NEGLIGENCE?
September 19 – 24, 2016

REGISTRATION FORM

Name :
Designation :
Organization :
Mailing Address :
City :
Mobile No. :
E-mail ID :
Accommodation required : Yes No
Registration Fee :
(a) Amount :
(b) Date :
(c) DD No :
(d) Bank :
(Crossed Demand Draft in favor of "Registrar, B. S. Abdur Rahman University" payable at Chennai.)

Place :
Date :
Signature

National Workshop on
URBAN DISASTERS-NATURE'S FURY OR HUMAN NEGLIGENCE?
September 19 – 24, 2016

Sponsored by
SERB
Science & Engineering Research Board
Department of Science & Technology
Government of India

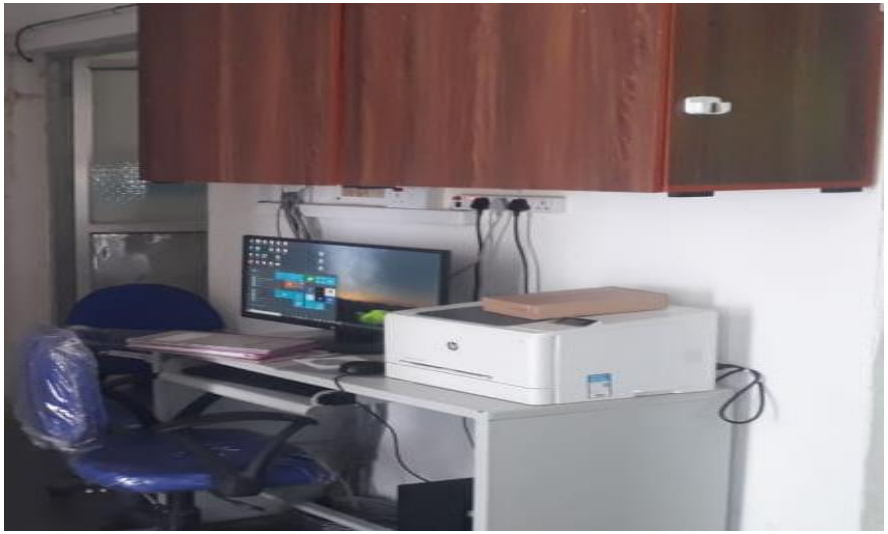
Organised by
DEPARTMENT OF CIVIL ENGINEERING
SCHOOL OF INFRASTRUCTURE
B.S.ABDUR RAHMAN UNIVERSITY
Seethakathi Estate, G.S.T. Road, Vandalur, Chennai - 600 048

Technologies presented in Crescent with Kankyo Cleantech.

- Bert – Bio Box: German Containerised Biogas Technology
- Pyro Cracker – Decentralised Plastic Pyrolysis system
- Mira Carbon – Advanced Japanese Waste Technology

A pilot project for bio fuel is in the research stage to develop as an alternate fuel for Automobiles.

Smart campus - Air Quality Sensor Station



❖ Air Quality Sensors - Continuous Ambient Air Quality Monitoring Station (CAAQMS)

	A	B	C	D	E	F	G	H
1	Report Type:	Station Report	Industry:	Tamilnadu State Pollution Control Board	Station:	TNSPCB_CRESCENT_VANDALUR		
2	Date & Time:	01-09-2019 06:00 To 05-09-2019 24:00	Reporting Average:	6 Hours	Aggregation Type:	Average		
3	DateTime	Wind Speed (m/s)	Wind Direction (°)	Ambient Temperature (°C)	Relative Humidity (%)	Barometric Pressure (mbar)	Rain (mm)	Solar Radiation (W/m²)
4	01-09-2019 06:00	0.42	117.83	26.13	88.44	999.54	0	0
5	01-09-2019 12:00	0.74	206.12	28.54	75.44	1001.75	0	184.78
6	01-09-2019 18:00	1.01	204.37	30.35	63.93	1000.22	0	167.42
7	01-09-2019 24:00	0.83	144.28	28.25	79.46	1001.53	0	0
8	02-09-2019 06:00	0.94	194.41	27.47	80.7	1001.28	0	0
9	02-09-2019 12:00	1.13	233.45	28.92	72.46	1003.28	0	217.59
10	02-09-2019 18:00	1.45	213.69	32	59.89	1000.4	0	289.94
11	02-09-2019 24:00	1.21	139.92	26.97	87.48	1001.71	0	0.12
12	03-09-2019 06:00	0.73	178.57	25.77	91.48	1000.8	0	0
13	03-09-2019 12:00	1.15	195.63	28.55	74.3	1002.8	0	270.37
14	03-09-2019 18:00	1.81	217.56	32.41	57.66	999.49	0	396.98
15	03-09-2019 24:00	0.85	151.71	24.67	92.61	1001.37	0	0
16	04-09-2019 06:00	0.68	167.93	25.98	87.58	1000.49	0	0
17	04-09-2019 12:00	1.37	211.35	29.36	71.08	1001.69	0	329.45
18	04-09-2019 18:00	1.95	189.12	33.02	57.55	998.08	0	353.21
19	04-09-2019 24:00	0.86	172.15	27.87	84.2	1000.37	0	0
20	05-09-2019 06:00	0.77	181.94	27.05	78.2	999.87	0	0
21	05-09-2019 12:00	1.67	198.13	30.1	66.71	1001.58	0	441.81
22	05-09-2019 18:00	2.53	205.47	33.5	53.81	997.97	0	417.47
23	05-09-2019 24:00	1.33	222.09	30.87	62.53	1000.09	0	0.08
24	Avg / Sum	1.17	0	28.89	74.28	1000.72	0	153.46
25	Data[%]	100 %	100 %	100 %	100 %	100 %	100 %	100 %
26	Max Date	05-09-2019 18:00		05-09-2019 18:00	03-09-2019 24:00	02-09-2019 12:00	01-09-2019 06:00	05-09-2019 12:00
27	Maximum	2.53	205.47	33.5	92.61	1003.28	0	441.81
28	Min Date	01-09-2019 06:00		03-09-2019 24:00	05-09-2019 18:00	05-09-2019 18:00	01-09-2019 06:00	01-09-2019 06:00
29	Minimum	0.42	117.83	24.67	53.81	997.97	0	0
30	Num	20	20	20	20	20	20	20
31	Prescribed Std.	50 - 0		50 - 0	- 0			
32	STD	0.5	0	2.48	11.97	1.33	0	166.74

Smart Campus (Statistics – Gas Report)

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

1	Report Type:	Station Report	Industry:	TNPCB	Station:	TNSPCB_CRESCENT_VANDALUR				
2	Date & Time:	01-09-2019 06:00 To 05-09-2019 24:00	Reporting Average:	6 Hours	Aggregation Type:	Average				
3	DateTime	SO2 (µg/m3)	NO (µg/m3)	NO2 (µg/m3)	NOX (µg/m3)	TNX (µg/m3)	PM10 (µg/m3)	PM2.5 (µg/m3)	CO (mg/m³)	O3 (µg/m3)
4	01-09-2019 06:00	19.58	98.6	29.34	127.95	102.51	127.74	32.89	0.37	11.37
5	01-09-2019 12:00	19.05	27.41	21.73	49.14	44.07	75.24	28.37	0.35	19.59
6	01-09-2019 18:00	16.78	2.12	11.86	13.98	16.61	54.59	14.4	0.15	31.21
7	01-09-2019 24:00	17.6	25.82	22.58	48.39	43.19	68.35	25.5	0.52	25.76
8	02-09-2019 06:00	18.06	1.68	13.26	14.94	17.36	39.35	14.01	0.14	21.89
9	02-09-2019 12:00	18.42	3.5	12.48	15.98	18.44	50.9	24.12	0.24	24.19
10	02-09-2019 18:00	16.63	1.38	8.58	9.97	12.82	35.39	9.57	0.11	36.11
11	02-09-2019 24:00	17.08	11.53	18.82	30.35	28.69	35.11	16.6	0.27	27.14
12	03-09-2019 06:00	17.53	7.8	17.09	24.89	23.91	24.69	8.92	0.12	13.06
13	03-09-2019 12:00	17.65	25.18	24.4	49.57	43.63	35.87	10.64	0.38	16.37
14	03-09-2019 18:00	16.62	5.15	20.79	25.95	26.38	58.62	7.66	0.21	35.45
15	03-09-2019 24:00	18.27	53.71	32.56	86.26	73.17	47.75	12.2	0.54	13.79
16	04-09-2019 06:00	18.11	7.27	16.88	24.15	23.82	29.8	9.98	0.11	13.67
17	04-09-2019 12:00	17.88	15.75	18.76	34.5	31.81	39.4	12.18	0.25	20.18
18	04-09-2019 18:00	17.3	3.75	20.29	24.02	24.71	44.11	7.98	0.15	33.54
19	04-09-2019 24:00	19.46	44.18	36.03	80.25	67.8	58.66	19.15	0.5	14.11
20	05-09-2019 06:00	17.2	6.45	18.79	25.24	24.86	31.73	7.86	0.05	14.66
21	05-09-2019 12:00	17.49	12.08	18.43	30.5	29.27	40.98	11.51	0.2	21.95
22	05-09-2019 18:00	19.2	3.23	15.6	18.83	20.76	45.97	4.83	0.1	36.23
23	05-09-2019 24:00	17.36	2.9	19.43	22.34	23.89	48.56	9.32	0.11	27.1
24	Avg / Sum	17.86	17.97	19.89	37.86	34.89	49.64	14.38	0.24	22.87
25	Data[%]	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
26	Max Date	01-09-2019 06:00	01-09-2019 06:00	04-09-2019 24:00	01-09-2019 06:00	01-09-2019 06:00	01-09-2019 06:00	01-09-2019 06:00	03-09-2019 24:00	05-09-2019 18:00
27	Maximum	19.58	98.6	36.03	127.95	102.51	127.74	32.89	0.54	36.23
28	Min Date	03-09-2019 18:00	02-09-2019 18:00	02-09-2019 18:00	02-09-2019 18:00	02-09-2019 18:00	03-09-2019 06:00	05-09-2019 18:00	05-09-2019 06:00	01-09-2019 06:00
29	Minimum	16.62	1.38	8.58	9.97	12.82	24.69	4.83	0.05	11.37
30	Num	20	20	20	20	20	20	20	20	20
31	Prescribed Std.	80 - 0	0 - 0	80 - 0			100 - 0	60 - 0	4 - 0	180 - 0
32	STD	0.88	23.36	6.61	28.77	21.99	21.87	7.53	0.15	8.2

Smart Campus (Statistics – BTEX Report)

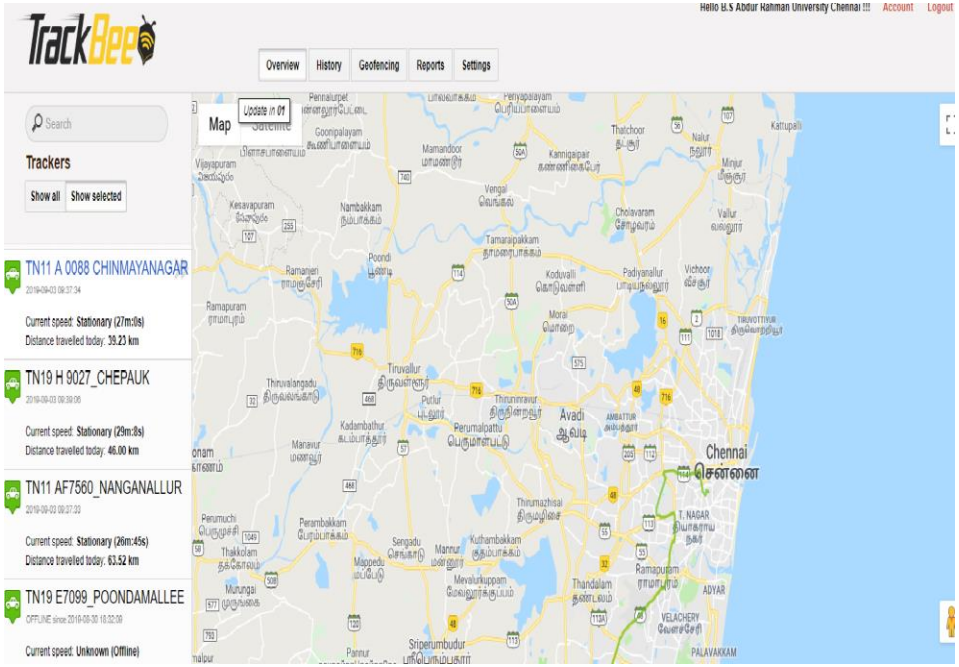
B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

1	Report Type:	Station Report	Industry:	Tamilnadu State Pollution Control Board	Station:	TNSPCB_CRESCENT_VANDALUR
2	Date & Time:	01-09-2019 06:00 To 05-09-2019 24:00	Reporting Average:	6 Hours	Aggregation Type:	Average
3	DateTime	Benzene (µg/m3)	Toluene (µg/m3)	EthylBenzene (µg/m3)	M&P-Xylene (µg/m3)	O-Xylene (µg/m3)
4	01-09-2019 06:00	0.21	1.54	0.61	0.81	0.23
5	01-09-2019 12:00	0.36	1.36	0.39	0.69	0.23
6	01-09-2019 18:00	0.15	0.64	0.16	0.37	0.11
7	01-09-2019 24:00	0.36	1.6	0.37	0.8	0.32
8	02-09-2019 06:00	0.14	0.62	0.19	0.34	0.11
9	02-09-2019 12:00	0.33	0.75	0.19	0.25	0.12
10	02-09-2019 18:00	0.12	0.41	0.13	0.26	0.08
11	02-09-2019 24:00	0.16	0.9	0.24	0.59	0.19
12	03-09-2019 06:00	0.11	0.73	0.2	0.34	0.12
13	03-09-2019 12:00	0.25	1.45	0.38	0.88	0.3
14	03-09-2019 18:00	0.23	0.88	0.21	0.45	0.15
15	03-09-2019 24:00	0.36	2.23	0.63	1.45	0.58
16	04-09-2019 06:00	0.12	1.88	0.57	0.6	0.17
17	04-09-2019 12:00	0.2	1.28	0.37	0.68	0.19
18	04-09-2019 18:00	0.17	0.84	0.29	0.46	0.15
19	04-09-2019 24:00	0.39	2.4	0.88	1.69	0.63
20	05-09-2019 06:00	0.09	0.56	0.2	0.38	0.09
21	05-09-2019 12:00	0.21	1.22	0.65	0.84	0.21
22	05-09-2019 18:00	0.11	0.83	0.3	0.46	0.13
23	05-09-2019 24:00	0.19	1.76	0.57	0.72	0.19
24	Avg / Sum	0.21	1.19	0.38	0.65	0.22
25	Data[%]	100 %	100 %	100 %	100 %	100 %
26	Max Date	04-09-2019 24:00	04-09-2019 24:00	04-09-2019 24:00	04-09-2019 24:00	04-09-2019 24:00
27	Maximum	0.39	2.4	0.88	1.69	0.63
28	Min Date	05-09-2019 06:00	02-09-2019 18:00	02-09-2019 18:00	02-09-2019 12:00	02-09-2019 18:00
29	Minimum	0.09	0.41	0.13	0.25	0.08
30	Num	20	20	20	20	20
31	Prescribed Std.	5 - 0				
32	STD	0.09	0.56	0.2	0.36	0.14

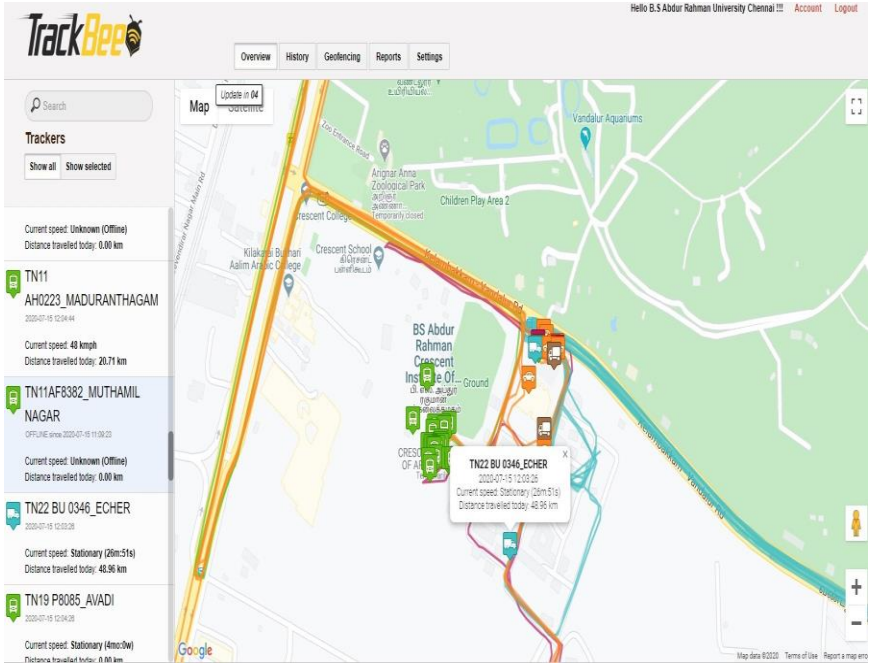
Smart Campus - Vehicle Tracking System

Monitoring and tracking our institute vehicles fixed with GPS through Neo-track and ADD tech Releyon software

Link : https://track.trackbee.in



Chinmayanagar - Bus tracking overview

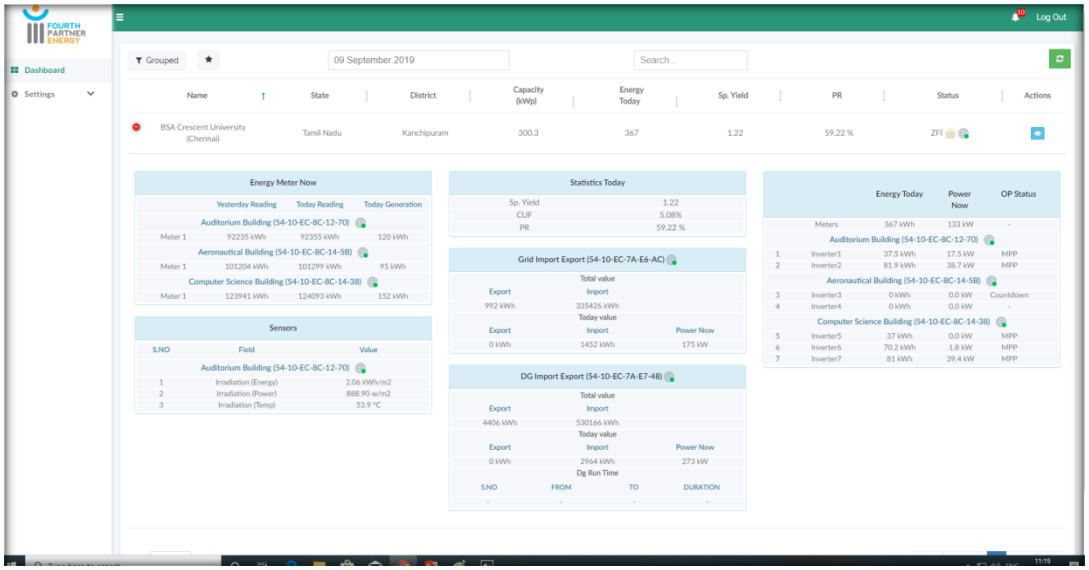


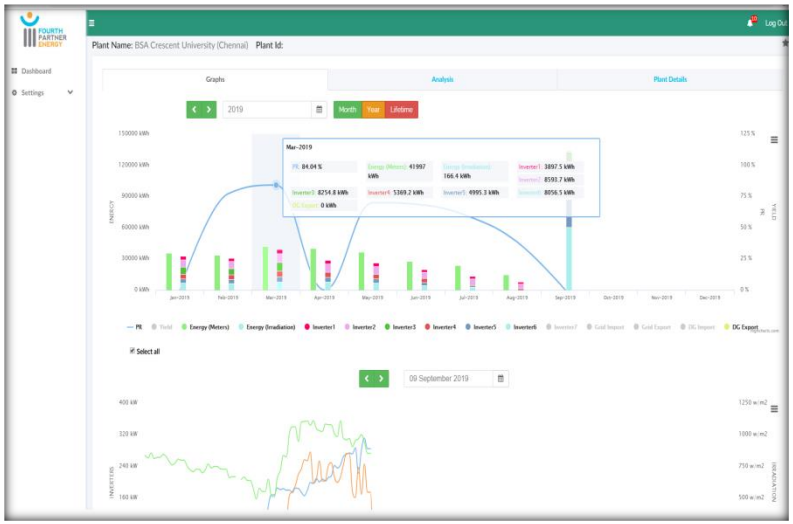
Location tracking of vehicles

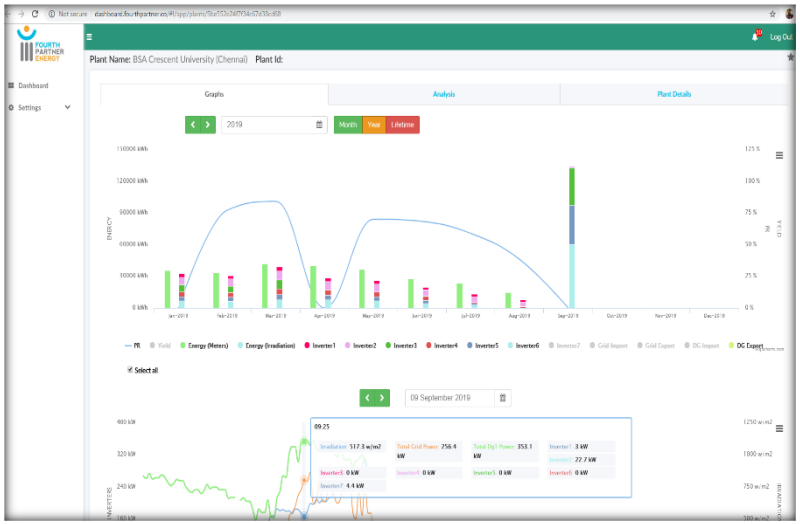
Smart Campus - Biometrics system

Biometrics Attendance System (BAS)

Smart Campus - Online Monitoring Solar Power







Smart Campus – Boom Barrier & Free entry / exit

Boom Barrier provided for restricting vehicle entry

Students Pathway

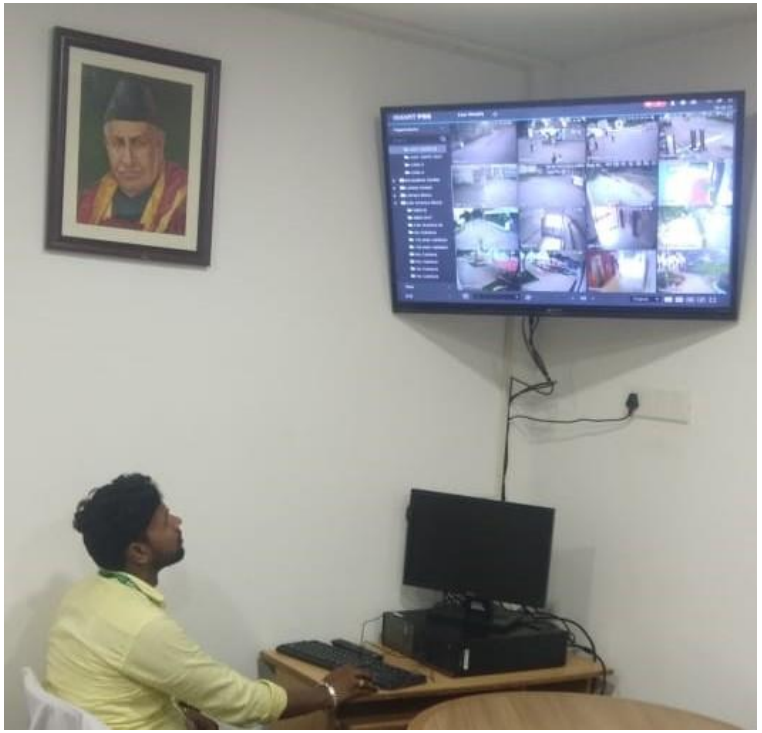
Campus Security – Surveillance system (CCTV)

Total CCTV Surveillance : 317 Nos.

Campus Security – Surveillance system (CCTV) (Statistics)

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Sl.No	Location	Nos
1	First year block	2
2	Aeronautical Block	9
3	Convention Centre	15
4	Convention centre seminar hall	10
5	Estate Office Road + New Architecture Block	14
6	GST Road	2
7	Computer Science Block + Library + Pharmacy Dept	8
8	Ladies Hostel + Staff quarters + Check post	11
9	Life Science /MBA block	5
10	Men's Hostel A Block	25
11	Men's Hostel B Block	32
12	Men's Hostel C Block	25
13	Men's Hostel D Block	25
14	Men's Hostel PG block	18
15	Men's Hostel Main block and passage	31
16	Main block	5
17	VC Office	4
18	Men's Hostel Mess	14
19	Arabic college	4
20	Exam cell	10
21	VC Villa	3
22	Innovation & Incubation centre	16
23	BSAU General Store	9
24	Medical hall	11
25	Store	9
	Total	**317**

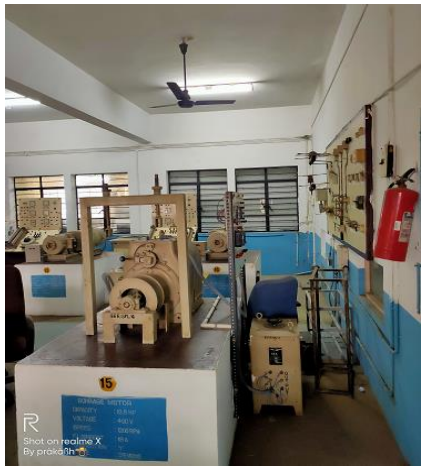


CCTV Surveillance Control Room

Safety Measurements

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

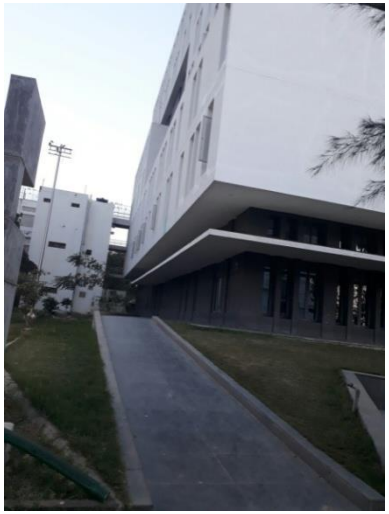
S.No	Location	Quantity
1	Architecture Block	16
2	Auditorium	20
3	Basic Science Block	15
4	Canteen	4
5	CIIC Block	6
6	Computer Science block	34
7	DATA Centre	6
8	Electrical Science Block	29
9	Estate Office	3
10	Islamic Studies	14
11	Life Science Block	8
12	MBA Block	20
13	Mechanical Science Block	28
14	Men's Hostel	83
15	New Staff Quarters	11
16	Pharmacy Block	5
17	Power Room	11
18	VC Villa	2
19	Women's Hostel	6
	Grand Total	**321**



Provided in various locations

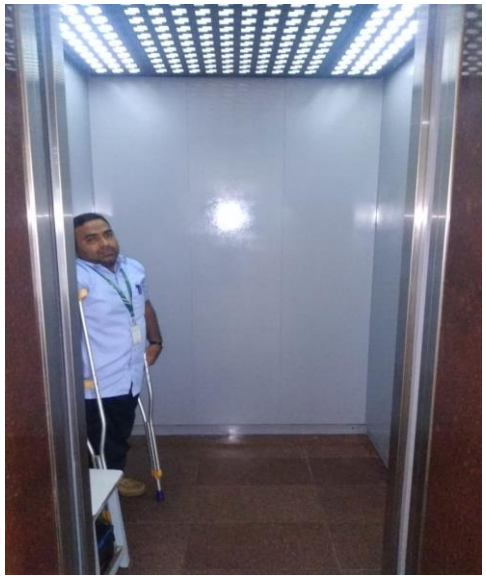
Total Fire Extinguishers : 321 Nos

Unhindered access to Differently abled persons



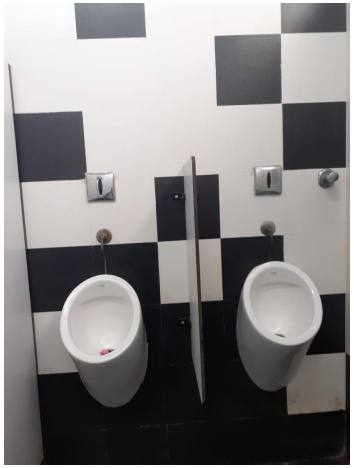
All buildings are constructed with a facility of ramps and lifts for Differently abled persons.

Elevators and Toilets for disabled persons



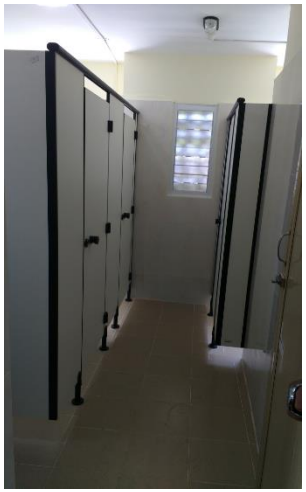
Crescent Health Centre

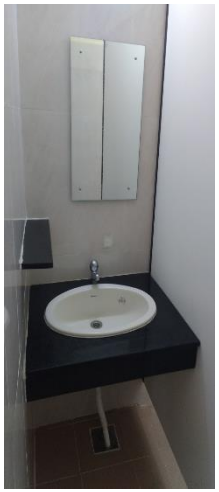
Hygiene of Toilets







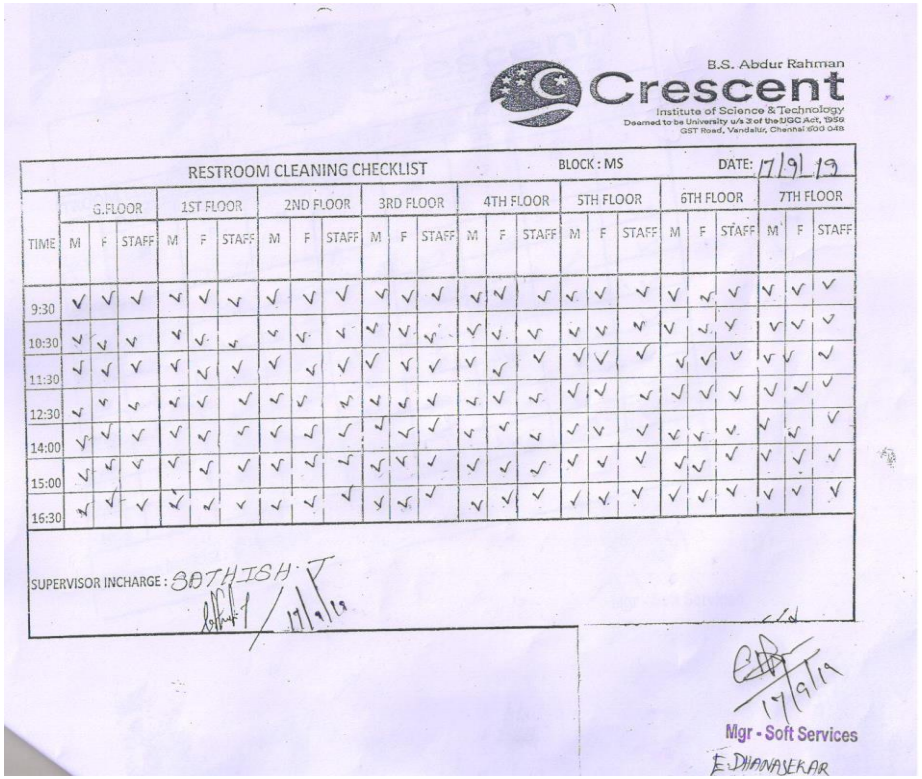
- Using sensors for automated flushing

Maintenance - Cleaning day to day

B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

REST ROOM CHECK LIST PG BLOCK					BLOCK : PG			
	Ground floor		1st floor		2ns floor		3rd floor	
TIME	M	F	M	F	M	F	M	F
9.3								
10.3								
11.3								
12.3								
14								
15								
16.3								

Supervisor Incharge :



B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

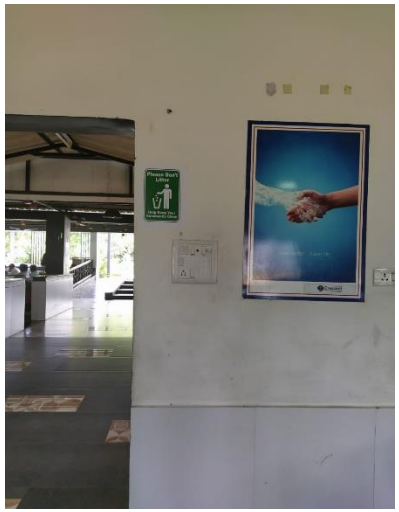
RESTROOM CLEANING CHECKLIST — BLOCK : MS — DATE: 17/9/19

TIME	G.FLOOR			1ST FLOOR			2ND FLOOR			3RD FLOOR			4TH FLOOR			5TH FLOOR			6TH FLOOR			7TH FLOOR		
	M	F	STAFF	M	F	STAFF	M	F	STAFF	M	F	STAFF	M	F	STAFF	M	F	STAFF	M	F	STAFF	M	F	STAFF
9:30	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
10:30	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
11:30	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
12:30	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
14:00	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
15:00	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
16:30	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

SUPERVISOR INCHARGE : SATHISH. P 17/9/19

17/9/19
Mgr - Soft Services
E.DHANASEKAR

Hygiene, Sanitation & Eco-friendly Signage's



Campus – Signage's

Institute SDGs (Sustainable Development Goals)

Our Institute set up and follows the SDGs (Sustainable Development Goals)

Awards – Recognition

- **Ranked "5" amongst the “Cleanest Higher Educational Institutions" in the country, in the category - "Residential University" by the MHRD, Government of India in 2019.**


Ministry of Human Resource Development
Government of India

Swachh Campus Ranking 2019
of Higher Educational Institutions

The B.S. Abdur Rahman Institute of Science & Technology, Tamil Nadu has been ranked Fifth amongst the cleanest Higher Educational Institutions in the Country in the category Residential University - AICTE and was awarded on 3rd December, 2019 at Prajnan (Auditorium), AICTE, New Delhi

R. Subrahmanyam
Secretary, Department of Higher Education,
Ministry of Human Resource Development, Govt. of India

Ramesh Pokhriyal 'Nishank'
Minister of Human Resource Development,
Govt of India

- **Certificate of Appreciation received from AICTE for the significant contribution in the " Clean & Smart Campus Award 2019“.**


AICTE National level

CLEAN & SMART CAMPUS AWARDS-2019

A CAMPUS FIRST STEP TOWARDS SUSTAINABILITY

CERTIFICATE
of Appreciation

Awarded to

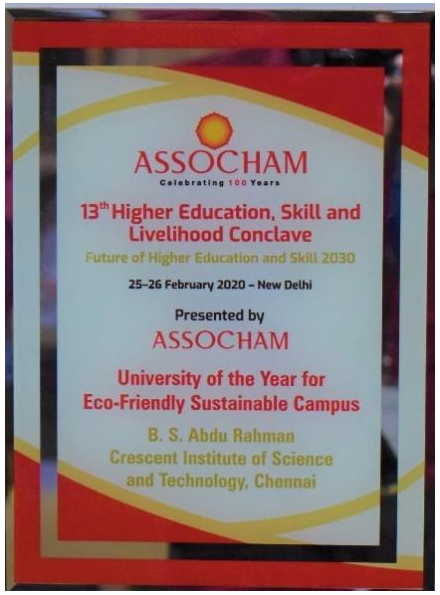
B S A CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY
Tamil Nadu

FOR THEIR SELECTION & ACTIVE PARTICIPATION FOR CAMPUS VISIT

TERRE

Prof. Anil D. Sahasrabudhe
Chairman, AICTE

- **ASSOCHAM award "University of the year for Eco-Friendly Sustainable Campus” for its eco-friendly self-sustaining efforts in conserving the environment. The award was presented by Dr. Mahendra Nath Pandey, Hon’ble Minister of Skill Development and Entrepreneurship. Govt. of India in 2020.**


ASSOCHAM
Celebrating 100 Years

13th Higher Education, Skill and Livelihood Conclave

Future of Higher Education and Skill 2030

25-26 February 2020 – New Delhi

Presented by
ASSOCHAM

University of the Year for
Eco-Friendly Sustainable Campus

B. S. Abdu Rahman
Crescent Institute of Science
and Technology, Chennai

Awards – Recognition

- **Certificate of Appreciation awarded by AICTE for the significant contribution in the " Jal Sakthi Abhiyan " in 2019.**
- **Certificate of Appreciation awarded by AICTE for the significant contribution in the " One Student One Tree" Scheme in 2019.**

Crescent in Asia Book of Records

Being the Associate Sponsor of the record event 'Maximum Number of People Participating in a Zoo Run', wherein a total of 1097 participants completed the 5 km run. This record was set by Arignar Anna Zoological Park, Chennai on the zoo premises in 2019.

ASIA BOOK OF RECORDS
www.asiabookofrecords.com

CERTIFICATE

This certificate is awarded to B.S. Abdur Rahman Crescent Institute of Science & Technology for being the associate sponsor of the record event 'Maximum Number of People Participating in a Zoo Run', wherein a total of 1,097 participants completed the 5 km run. This record was set by Arignar Anna Zoological Park, Chennai, Tamil Nadu, India, on the zoo premises, on October 5, 2019.

Issued on : January 07, 2020

Dr. Biswaroop Roy Chowdhury, Editor-In-Chief, India Book of Records
Le Tran Truong An, Editor-In-Chief, Vietnam Book of Records
Dr. Deepak Chandra Sen, Editor-In-Chief, Nepal Book of Records
Ms. Selvarani Muthiah, President- Malaysia, Asia Book of Records
Dr. Drs. Ponijan Liaw, President, Indonesian Professional Speakers Association
Gobind Das, Editor-In-Chief, Bangladesh Book of Records

Asia Book of Records is affiliated to World Record University and follows International Protocol of Records (IPRs) as per the consensus arrived at the meeting of the Chief Editors of National Record Books, Ho Chi Minh City, Vietnam.
Asia Book of Records is registered with the Government of India with RNI no. HARENG/2011/40693

QS – Star Rating -Facilities

5 Star Rating in Facilities

QS I Gauge Rating - Facilities

QS I·GAUGE
INDIAN COLLEGE & UNIVERSITY RATING

B S Abdur Rahman Crescent Institute of Science & Technology

QS-ERA India Pvt Ltd has, through rigorous and independent data collection and analysis against performance metrics as set out in the QS I-GAUGE methodology, awarded B S Abdur Rahman Crescent Institute of Science and Technology with a Diamond University Rating

DIAMOND

Date of Issue: 15 October 2018

Valid Till: 15 October 2021

Ashwin Fernandes
CEO, QS-ERA India Pvt Ltd

Obtained Diamond rating in

QS I-Gauge for Facilities

Disaster Mitigation awareness campaign held at BSACIST on 2019

The National Disaster Response Force (NDRF), State Disaster Response Fund (SDRF), Fire and Rescue services Department conducted a Mock Drill in B.S. Abdur Rahman Crescent Institute of Science and Technology to create awareness as how to save life in real time situation that occurs of any kind during natural calamity among the students.

Crescent – Societal activities during Covid 19

- In-house sanitizer was prepared as per WHO guidelines and medical recommendations 25 litres at a nominal cost and distributed to the nearby peoples.
- School of Life Sciences student's organised an awareness program about (COVID- 19) Corona through RANGOLI.
- 100 Nos of essential food items bags are distributed by BSACIST to the housekeeping and garden workers.
- Crescent extends its support to Tamilnadu Police Department by providing face mask of about 300 Nos to protect against COVID-19 infections.
- Our Institute has allotted School of Arabic and Islamic Studies Hostel building with 200 Nos bed facility to the government of Tamilnadu Health department for covid-19 (quarantine) patients.
- 100 Nos food packets and provision were provided to the north Indian construction workers who are stayed near by our campus.

Few Photographs– Societal activities during Covid 19

Estate Office Core Team

Mr. V.N.A. JALAL
Senior General Manager

Dr. A.K. KALILUTHIN
Deputy Director
(Campus Development & Maintenance & Security)

Er. K.S. JAMALUDEEN
Senior Manager – Construction

Mr. M. Ramkumar
Executive Engineer – Electrical

Mr. K. Seetharaman
Project Engineer – Civil

Mr. A. Habeeb Sulthan
Manager – Landscaping

Mr. N. Elamurughu
Fleet Manager – Transport

Mr. B. Balaji
Assistant Engineer – MEP Project

Mr. Basheeruddin
Executive – Soft Service

Mr. T. Rajiv Gandhi
RO Technician – Plumbing(i/c)

Er. M. Thesingh
Planning Engineer

Mr. E. Dhanasekar
Manager – Solid Waste Mgmt

Mrs. Rahmath Khathun
Executive Assistant

Mr. N.A. Balasubramanian
Assistant – Chancellor Office

Er. E. Manivannan
Junior Engineer – Electrical

Er. M.Mohd. Riyas
Junior Engineer – Civil

Er. J. Prakashraj
Site Engineer – Civil

S.Ramesh
Security Officer

Mr. Elayaperumal
Security Officer

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

Best Practices

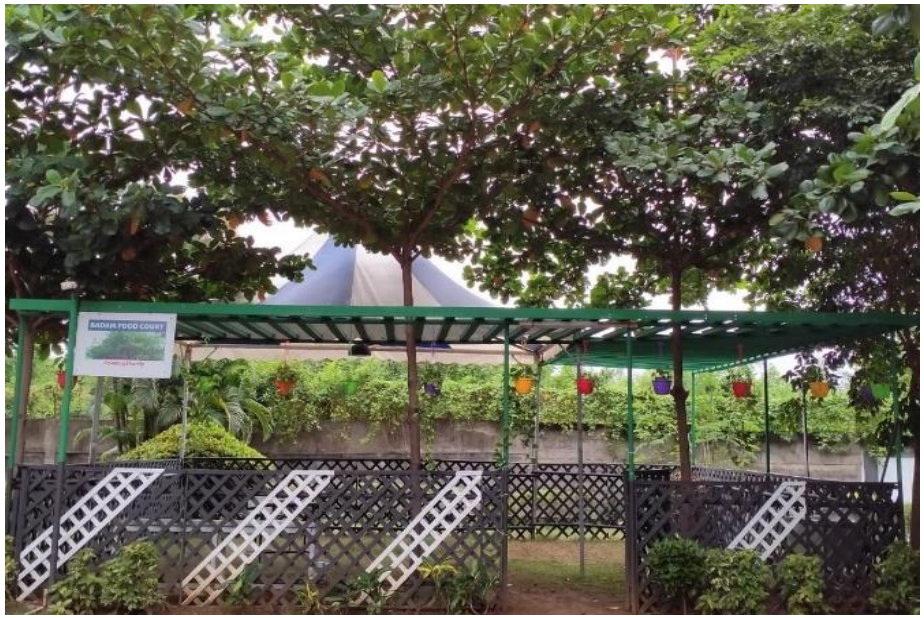
- Several measures have been initiated for Sustainability and Environment consciousness
- Green Building Certification
- Recycling of papers through ITC
- Differently-abled friendly campus
- Zero discharge of waste
- Adoption of nearby villages
- Supporting nearby village Panchayats and Government Organisations

Future plans - Crescent Green Campus

- To create summer ponds to save run-off rain water and utilize for routine use to reduce water procurement and increase self-sufficiency.
- To formulate a Green Policy / Environment Policy for the campus that will guide all activities of the Institute to align with the sustainability initiatives.
- To get the B.S. Abdur Rahman Crescent Institute of Science and Technology certified under ISO 14001 for Environmental Management System.
- To get the whole campus certified as Green Campus by competent certification authority like USGBC/GBCI.

Bamboo Cafe

Badam Food Court



Thank You

Environment Friendly Campus

Zero Discharge Campus