

# BSA STAFF QUARTERS AND LADIES HOSTEL



Chennai, India | Final EDGE Certification | April 2018

Developer: B.S. Abdur Rahman Crescent Institute of Science and Technology

EDGE Expert: Elavarasan G



The B.S. Abdur Rahman Crescent Institute of Science and Technology, located in Chennai, has prepared students in India to pursue careers in engineering, science and technology for over 32 years. In addition to inspiring innovation among its students, the university has also chosen to improve its campus by adding green buildings. The new women's residences and staff quarters have many green features that have all been implemented at no additional cost to the university. When utility bills are taken into consideration, the result is a positive sum gain.

The staff quarters and ladies hostel has many green features such as solar hot water collectors and energy-saving lighting systems to reduce energy consumption, and UPVC windows to reduce embodied energy in materials. Located in a region that experiences frequent droughts and shortages of water, the university can also conserve its supply of water with the help of low-flow showerheads and faucets and dual flush water closets.

The BSA Staff Quarters and Ladies Hostel has received final EDGE certification from GBCI.

**Size**  
25,846 m<sup>2</sup>

**Certified Units**  
164

**People Impacted**  
382

**CO<sub>2</sub> Savings**  
142.7  
tCO<sub>2</sub>/Year

## 26% ENERGY SAVINGS



Reduced window to wall ratio, reflective paint and tiles for the roof, energy-efficient ceiling fans in all rooms, energy-saving lighting and solar hot water collectors are projected to save 26% of the energy that a conventional residence would require.

## 28% WATER SAVINGS



Low-flow showerheads and faucets and dual flush water closets help reduce water waste and lower utility bills.

## 63% LESS EMBODIED ENERGY IN MATERIALS



Autoclaved aerated concrete blocks for internal and external walls, stone tiled flooring and UPVC window frames help reduce this project's impact on the environment.



EDGE, an innovation of International Finance Corporation (IFC), is a green building certification system focused on making buildings more resource-efficient. It empowers developers to quickly identify the most cost-effective ways to reduce their building's energy use, water use and embodied energy in materials. Green Business Certification Inc. (GBCI) administers EDGE certification in over 140 countries around the world and is the exclusive certification provider for all EDGE buildings in India. Learn more at [edge.gbci.org](http://edge.gbci.org).