

# RAINBOW CHILDREN'S HOSPITAL - BANJARA HILLS



Hyderabad, India | Final EDGE Certification | March 2019

Developer: Rainbow Hospitals | EDGE Auditor: Samhita M



Rainbow Children's Hospital - Banjara Hills offers a resource-efficient and comfortable environment for both patients seeking care and the medical staff working to save lives. The new facility is situated in the Banjara Hills neighbourhood of Hyderabad and is the second Rainbow Children's Hospital to be EDGE-certified. The Banjara Hills facility provides comprehensive services for paediatric care, a perinatal unit, and other services for women with state-of-the-art infrastructure and the latest technologies.

The 205-bed hospital has many green features that conserve natural resources and improve operational performance. The solar panel-heat pump hybrid system installed in the facility is projected to meet at least 60 percent of the building's hot water demand, contributing to the reduction in energy. A black water treatment and recycling system is expected to reduce water use nearly in half. Embodied energy in materials will be reduced by 42 percent because of construction materials like autoclaved aerated concrete blocks for the hospital's walls. These green measures were implemented at very little additional cost and the developer is expected to recover their investment in less than a year. The hospital is also estimated to save nearly US \$6,000 each month due to lower utility bills, allowing more money to be allocated toward patient care. Rainbow Children's Hospital - Banjara Hills has received final EDGE certification from GBCI.

**Size**  
14,646 m<sup>2</sup>



## 24% ENERGY SAVINGS

Insulated roof, low-E coated glass, variable frequency drives in AHUs, variable speed drives pumps, energy-saving lighting and solar hot water collectors are projected to save 24% of the energy that a conventional hospital would require.

**People Impacted**  
300



## 47% WATER SAVINGS

Low-flow showerheads and faucets, dual flush water closets, water-efficient urinals and a black water treatment and recycling system help reduce water waste and lower utility bills.

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



## 42% LESS EMBODIED ENERGY IN MATERIALS

Autoclaved aerated concrete blocks for internal and external walls 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).