



## THAKUR EDUCATION TRUST

### **CUSTOMER BACKGROUND**

Established in the year 1992, Thakur College of Science and Commerce (Thakur Education Trust) is a Mumbai based (Kandivali East) education institute that teaches programs in over 18 different streams.

### **PROJECT SCOPE**

The institute has lifts, computer labs, AC classrooms which consumed a large amount of electricity units. The management of Thakur Education Trust decided to shift to a renewable source of energy for electricity generation - Solar Power Systems. Thakur College of Science and Commerce is affiliated to the AICTE, and the guidelines of AICTE also encouraged the use of Renewable Energy on campus sites. The institute adopted the innovative BOOT Model (Build Own Operate Transfer) with Greenlance Energy, a specialized energy asset management player.

## SOLUTION PROPOSAL

- Project: Captive Rooftop Solar Plant installation
- Location: On 2 different terraces of the building - 6th & 7th floor
- Executed Project Specification Size: 200 KW DC / 180 KW AC
- Nameplate: 3 Solar Inverters of 60 KW
- Meter Installation: Bi-directional Netmetering done for 3 separate meters providing Grid Connectivity and Energy Banking to the customer.
- Bill of Material (BOM): The entire BOM for the project was sourced from the industry leader – Tata Power Solar. They have been the frontrunners in the rooftop solar segment for 8 years successively.

## EXECUTION

- The challenge was to install the project at a live and functional college site. Hence, caution and attention was given to safety practices.
- Greenlance Energy completed the project in approximately 4 months timeframe and commissioned in month of May 2021.
- The plant has generated 240 MWh of Solar Electricity Units since it was implemented.
- Post project execution, over 240 tons of reduction in carbon footprint was achieved.
- Met the AICTE guidelines for adopting renewable energy at educational campus.
- State of art NOC (Network Operations Center) monitoring via Greenlance Energy NOC for optimum Energy Asset Management and minimum downtime



## BENEFITS

- The electricity spend for the institute has gone down by 35%.
- Used idle terrace space for an environmental beneficial energy renewable project.
- Completely managed Solar Platform as a Service
- The plant is generating 800 KWh (units) of solar electricity daily on an average.
- The plant has managed to achieve carbon reduction which is equivalent to planting of more than 2800 trees so far and counting.
- Comprehensive Insurance of Rooftop Solar Plant against cyclones, fire, perils with Business Guard Policy from TATA AIG
- Greenlance Solar has used latest Mono Crystalline Panels with the latest technology and best in class materials to assure smooth and long functioning of the rooftop solar project at the Thakur College of Science and Commerce.

