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BRAHMANANDA KESHAB CHANDRA COLLEGE

(NAAC ACCREDITED GOVT. SPONSORED DEGREE COLLEGE FOR UG & PG)

**111/2, BARRACKPORE TRUNK ROAD, BON-HOOGHLY,
KOLKATA - 700108**

Ref.

Date

Rooftop Solar Power plant

Grid connected Rooftop Solar PV power plant of PV Array capacity of 20kwp was installed at our college in November 2020. WBREDA being a State Nodal Agency for promotion of renewable energy was assigned to implement the project funded by the Government of West Bengal. They did a preliminary survey of the college rooftop and found it was technically feasible for installation of the solar power plant. They then deployed M/s Larsen & Toubro Ltd to execute the project.

The PV Power Plant was grid connected type without battery backup and would supplement energy consumption from grid supply and thus reduce the expenditure for electricity bill through net metering arrangement. A total of sixty-two (62) solar panels in eight rows was installed on the college roof. The energy meter (Sprint 350 Type: E3D106, 3 Ph, 4 Wire) was installed indoor in the second floor.

According to the terms and conditions set by WBREDA, they will provide breakdown maintenance service as and when required for a period of five (05) years from the date of commissioning of the power plant. They will also provide the necessary training for day to day operation and maintenance of the system.

The solar plant was commissioned and started functioning in November 2020. But there was some problem with the net meter installed by CESC which was not detected at that time. In that period the college was not functioning normally due to the restrictions put by the WB Government due to COVID 19 pandemic and so problem of net meter remained undetected. In September 2022 a proper net meter was installed and the effect was reflected in the CESC bills. The units consumed drastically reduced to almost half in comparison to the readings of the previous years.