

LADY BRABOURNE COLLEGE

BEST PRACTICE I

Best Practice I: Installation of ‘Rain Water Harvesting System’ and ‘1KWP Solar PV Power Plant’ to make the college campus eco-friendly

The Objective:

- To cut down the energy consumption, cost and to promote alternative eco-friendly source of power supply, a 1 KWP Solar Photovoltaic Power Plant is going to be installed under the guidance of Department of Physics. To promote an innovative alternative water supply approach, Rainwater Harvesting System is introduced in the college under the guidance of Department of Botany.

The Context:

- Over the last five decades we have been witnessing the escalating demand for energy in all fields. The demand for fossil fuels has increased to a huge extent and this in turn has a huge impact on various ecological factors. People sought new and renewable sources as an alternative way to meet the rising demand for energy. One of the promising and virtually inexhaustible sources of energy is the Sun. Solar energy can be harnessed and used to produce electricity with the help of photovoltaic cells or solar cells.

- Rainwater harvesting is an innovative alternative water supply approach. Rainwater harvesting captures, diverts, and stores rainwater for later use. Implementing rainwater harvesting is beneficial because it reduces demand on existing water supply, and reduces run-off, erosion, and contamination of surface water. Rainwater can be used for nearly any purpose that requires water.

The Practice:

- In February, 2016, Solar Panels of 1 KWP energy have been installed on the roof top of the main building of our college with the initiative of Dept. of Physics in collaboration with West Bengal Renewable Energy Development Agency, Govt. of west Bengal and the Higher Education Department, Govt. of West Bengal. The solar energy thus produced is being used for outdoor lighting of our campus. WBREDA (West Bengal Renewable Energy Development Agency) has helped us to install **1 KWP Solar PV Power Plant**. The cost of Rs. 1,62,500/- for the installation work has been paid by the **Govt. of West Bengal**. We have a plan to make an extension of the project up to 20 KWp.

- Lady Brabourne College has undertaken a project for Rain Water Harvesting in collaboration with ‘State Water Investigation Directorate, West Bengal’. Rain water will be collected from the rooftop of College and Hostel building with the help of gutters and downspouts. These downspouts will be channelized to lead the collected rain water up to a filter bed. The rain water

will be filtered and then be recharged to the nearest aquifer hereafter through a newly constructed bore well. With the initiative of Dept. of Botany, the Project of Rs. 43 lakh in collaboration with State Water Investigation Directorate, Govt. of West Bengal has been successfully completed.

Impact:

- The proposed solar panel at the hostel building (as an extension of the existing project) can be used to generate electricity for running geysers which will help the students especially during the winter months. Outdoor lighting in the campus will help us to save electricity consumption and will be cost effective.
- The harvested water can be used as drinking water as well as for storage and other purposes like gardening, irrigation etc.

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BEST PRACTICE II

Best Practice II: Lady Brabourne College as the Nodal Centre for Spoken Tutorial

The Objective:

The objective of this programme is to promote Information Technology literacy through Free and Open Source Software (FOSS) in colleges.

The Context:

Lady Brabourne College has been chosen as the Nodal Centre for Spoken Tutorial. This is an IIT Bombay initiative as a part of The National Mission on Education through ICT, MHRD, Govt. of India.

The Practice:

As a Nodal Centre, Lady Brabourne College will be responsible for the implementation of this programme in 17 other colleges throughout West Bengal. As part of this programme the college had arranged a one-day workshop on Libre Office, Math, Calc. in collaboration with Spoken Tutorial, IIT Bombay. The college proposes to hold classes and workshops involving students and faculty members all over Kolkata.

Impact:

45 teachers from Lady Brabourne College and other colleges in Kolkata participated in the one day workshop. We had a set of lectures delivered by the resource person Mr. Fariduddin Masud of Spoken Tutorial, IIT Bombay. The lectures were followed by a lively question answer session. A lot of enthusiasm was generated and different colleges have started implementing the FOSS programme for the benefit of their students and faculty members.

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