



Indian Institute of Technology Madras
Office of International & Alumni Affairs

Solar Water Heaters for Hostels

Project Report

Objective:

1. To provide solar water heaters to the hostels
2. No. of Hostels to be covered : 14 boys hostels & 1 Ladies hostel
3. Total Total requirement: 500 Litres per day - 57 units
1000 Litres per day - 15 units
4. To complete the project within 4 months from the date of issue of purchase order

Project Execution Personnel: Chairman, Engineering Unit

Project cost: Estimated cost Rs. 115.84 lakhs.

Support: The project is partly funded by 1973 batch of IIT Madras to the tune of Rs. 25 lakhs.

Project Update:

1. The existing tank height is insufficient in most of the hostels to connect to solar heating system; hence, it is suggested to connect the solar water heating system to newly constructed tank for the new block (URC constructed). The quantity of inlet line will be increased due to this modification.
2. All the tanks for solar systems are connected to the newly-built tank; hence, a pressure-releasing valve has to be connected to stop overflow of water due to higher head. The contractor is in the process of procuring the pressure-releasing valve.
3. A non-return valve has to be installed to incoming water line to avoid loss / draining of hot water to regular water supply line.

Project Status: Completed and commissioned

Date : Feb 01, 2013