

Steam Laundry System using Scheffler Dishes at ITC Hotel, New Delhi

Location: ITC Hotel , New Delhi

Type of Installation: Scheffler Dishes

Configuration: 128 m² (16 m² x 8 No's)

Supplier: Thermax Limited, Pune

Application: Laundry

Year of Installation: April 2010

Beneficiary Details: M/s. ITC Maurya was established in the year 1975. The hotel has 440 rooms including 29 uniquely designed suites. They have set an example by pioneering the successful use of solar technology for thermal energy needs. The establishment has implemented 128 m² capacity Concentrated Solar Project for the purpose of hot water for laundry. The plant is installed at ITC Maurya premises. They have another plant of 338 m² of Arun Technology.



ITC Maurya Hotel, New Delhi

System Details: ITC has implemented the Scheffler based system for the purpose of steam generation in its laundry applications. The total system has 128 m² of collector area and 08 concentrators installed. The system was commissioned on 15th April 2010 by M/s Thermax Limited, Pune. Prior to the implementation of the CST system the establishment was using Gas for its end use consumption. The system is integrated with its boiler system. The project is set up at a cost of Rs. 35.0 Lakh with grant availed from MNRE of the order of Rs. 5.0 Lakh.



Timings & System Application Details: The system is used for laundry applications during 9 AM to 4 PM. The system is used for laundry and hot water for bathing.	
Steam Generation: 520 kg/d	Operating Temperature & Pressure: 100-120°C; 4-8kg/cm ²
Type of Fuel Saved: Natural Gas	Quantity of Fuel Saved: 28438 SCM
Functionality & Key Issues of Non-Operation: Operational	
Status of Equipment: The system is operating properly.	
O & M Issues & Beneficiary Perception: NA	
Financials in Detail: The project is set up at a cost of Rs. 35 Lakh with a grant from MNRE of the order of Rs. 5.0 Lakh. The plant has an IRR without subsidy of 3.66 % and payback period of 25 years, while the IRR with subsidy is increased at 6.39% and a payback period of 15 years.	
Cost of System: Rs. 35.0 Lakh	MNRE Subsidy: Rs. 5.0 Lakh
IRR & Payback with Subsidy: 6.39% & 15 years	IRR & Payback without Subsidy: 3.66 % & 25 years
Overall System Performance: Good	Date of Visit: 20-02-2013
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