

Coal Secretary inaugurates the Largest Solar Power Plant in Ranchi at CMPDI



Sri SK Srivastava, Coal Secretary inaugurating the Roof Top Solar Power Plant at CMPDI Ranchi. Sri AK Debnath, CMD, CMPDI and others



Secretary, Ministry of Coal Govt. of India Sri SK Srivastava, along with Sri AK Debnath, CMD, CMPDI and others with Roof Top Solar Power Plant

A 200kW roof top solar power plant with micro grid concept has been commissioned successfully in CMPDI. The solar power plant has been inaugurated by Shri S.K. Srivastava, Secretary, Ministry of Coal, Govt. of India on 09.10.2014.

During his inaugural speech, he praised CMPDI, for their initiative in the field of re-newable energy source. The solar power plant in CMPDI is the result of great effort and initiative taken by Shri A. K. Debnath, CMD CMPDI. He said that the effort of CMPDI will have demonstrative effect to show the efficiency of roof top solar power generation system not only in Ranchi but in Jharkhand and the country as a whole. He further said that solar power (clean/renewable energy) generation is going to play a major role in meeting energy security of the country. He also said that Coal India has signed a MOU with MNRE for installation of 1000MW solar power system in coming years.

On this occasion, Shri A. K. Debnath, CMD, CMPDI expressed immense pleasure for successful commissioning of the solar power system. He expressed his desire to install such type of solar power plants in all regional institutes of CMPDI.

The project has been started in September, 2013 and was successfully implemented in September

2014. Gujarat Energy Research & Management Institute (GERMI) has acted as sub-implementing agency for implementation of this project.

The solar photovoltaic plant has been installed on the available roof top space in CMPDI office campus. The total installed capacity on the roof top of five office buildings are 191kW, which is about 30% of total electrical load of CMPDI office campus. The modules used in this project are of polycrystalline type. Two types of technologies, one with string inverter and another with micro inverter have been adopted in installing the plant.

The power generated through solar plant will feed the internal grid of CMPDI campus and supply the important electrical loads. The internal grid consists of JSEB and generator supply. The total life of the plant is about 25 years and for successful running, it requires a very little maintenance. Till now this is the highest capacity of roof top solar project in Ranchi and Chief Electrical Inspector (CEI) of Jharkhand has given the certificate to charge the plant. The annual generating capacity of the roof top solar plant is about 3.0 Lakh units which leads to the reduction of CO₂ emission in the environment by 2.5 lakh kg per year.