

**GOVERNMENT OF INDIA  
NEW AND RENEWABLE ENERGY  
LOK SABHA**

UNSTARRED QUESTION NO:3102

ANSWERED ON:19.08.2011

SOLAR THERMAL POWER

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**Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:**

- (a) whether the Government has launched a computer simulations software for design optimisation of solar thermal power plants in the country;
- (b) if so, the salient features thereof;
- (c) the details of the expenditure incurred on the said project; and
- (d) the extent to which the new software is likely to help the Government in achieving the targets set for generation of new and renewable energy in the country?

**Answer**

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

(a)&(b): Indian Institute of Technology Bombay has launched a computer simulation software which has been developed as a part of an on-going R&D project sponsored by the Ministry to them for setting up a megawatt scale national solar thermal power research & simulation facility at Solar Energy Centre of the Ministry at Gurgaon. The software deals with overall plant optimization through multiple simulations. With this software, performance of the plant can be predicted for entire year and parametric studies can be done through change of system parameters.

(b): The total cost of the project is ` 40.98 crore for a duration of five years, and Rs.38.0 crore have been released so far.

(d): The software is likely to help in building up indigenous capabilities and, therefore, would help developers in designing solar thermal power projects for remaining phases of the Jawaharlal Nehru National Solar Mission, which was launched by the Government in January, 2010.