

In-house magazine of  
GSPC  
(for Private Circulation only)

Volume 12 // No. 2  
July-August'15

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## SOLAR APP

It is well known that solar energy generation is presently making a quantum jump in India. Prime Minister Shri Narendra Modi directed MNRE, Government of India to increase the earlier target of 20 GW to 100 GW through solar power alone by the year 2022. In this direction, solar energy generation map will be of great help. GERMI has recently published these maps for the whole of India on a regional scale and detailed maps for three states- Gujarat, Andhra and Telengana states. More and more states are being worked out by GERMI. Using these maps, solar developers can plan their plants in an optimal way. It was felt that this information and the digital data need to be made available to all through an APP for the mobile phones.

Accordingly, the Solar App is innovated and through this, one can get digital values of solar energy generation for any part of India on mobile phone in seconds. It is created by Shri Jaymin Gajjar, a research student guided by Prof. Harinarayana, Director, GERMI. This information is free of cost all over the world through an App by GERMI known as SOLAR POTENTIAL. By providing latitude and longitude values of any location in India solar energy generation values will be displayed month wise and also the annual generation. This helps the solar developers/industrialists to plan their plants quickly and also helps in saving time. Before this, one required a solar specialist to make estimation through modelling probably involving a week's time. Now this information is available for those interested from their mobile phones. The procedure is - go to Google Play and download the GERMI solar potential map application information and install the same on the mobile phone. All other things are self explanatory.

## GERMI

COMES OUT WITH

TWO VERY USEFUL

## INNOVATIONS

Gujarat State Petroleum Corporation's energy research and management wing -- GERMI has come out with two very important innovations which would be useful to the people at large in general and the energy industry in particular. The first innovation is the 'Solar App' that can be used by anybody on her/his mobile phone to know solar energy generation potential of India. This initiative is rightly in line with the digital India week initiated by Honourable Prime Minister Shri Narendra Modi. The second innovation is an innovative design that makes an area to maintain a constant temperature naturally without using energy. GERMI received a design registration patent (No.266563) for this innovation.

## NATURAL COOLING PAD

India's atmosphere is hot for most part of the year. GERMI's innovation is to keep an area cool in a natural way. For example, all laptop computers get heated up after some time. Now thermal cooling pads that work on energy are available. GERMI has designed a product that works without energy. It is like a small tabletop. Once the laptop is placed on this pad one can keep on working without worrying about the laptop getting heated up as the laptop temperature is absorbed by the thermal pad and cools in a natural way. This product has obtained design registration patent from Kolkata office, Government of India.

Although this is proved for laptop computers, the same design with a slight modification can be used at any place where we wish the area at a constant and low temperature, for example, roof tops for the buildings. Most of our houses, buildings, the top floors are always at a higher temperature than the ground floor. This innovative design product placed on the roof top reduces the temperature by about 7 to 8 centigrade. This innovative design is made by the Director, GERMI.