



**Ministry of New and Renewable Energy  
(Geo-thermal Division)**

**CALL FOR SUBMISSION OF RESEARCH & DEMONSTRATION PROPOSALS FOR THE  
DEVELOPMENT OF GEOTHERMAL ENERGY IN INDIA**

For harnessing Geothermal energy in the country the Ministry of New & Renewable Energy (MNRE) has been supporting R&D and exploration activities and efforts during last 25 years. This includes formation of expert groups, working group, core group and committees in addition to providing financial support for such projects and resource assessment. Recently MNRE had carried out careful and in-depth discussion by different expert groups under the initiative of deployment of Geothermal Energy in India. Two distinctly different categories of projects namely

**(i) Power Production from Geothermal Energy as R&D-Cum Technology Demonstration project.**

Magnetotelluric (MT) investigations to delineate sub-surface, geo-electric structures and evaluate their geothermal significance have been carried out by the National Geophysical Research Institute (NGRI), Hyderabad resulted in the identification of 340 hot springs across India with most potential sites at Puga Valley (J&K), Tatapani (Chhattisgarh), Godavari Basin Manikaran (Himachal Pradesh), Bakreshwar (West Bengal), Tuwa & Unai (Gujarat), Jalgaon (Maharashtra), Rajgir & Munger (Bihar) and Jharkhand.

**(ii) Technology Development and Field Level Demonstration of Ground Source Heat Pumps (GSHP's).**

Apart from the power production geothermal can also be used for heating cooling application by deploying Ground Source Heat Pumps (GSHP's) which can be effective in all kind of climate zones or can be deployed anywhere in India. GSHP's can be installed at Cold Storage Units in Rural India which is facing a huge storage of power supply.

This call for proposal is primarily for the development and demonstration type projects in the area of Geothermal Energy. Technology development being the prime focus, priority would be given to those proposals with active participation of the public and private sectors. The Ministry of New and Renewable Energy will be considering multi-purpose geothermal energy projects for harnessing geothermal energy in the country so as to take up at least one such project in all the potential states or Climatic zones in India and provide financial support upto 30% of capital cost of power production. For GSHP's the MNRE will support 30% of system cost.

Organizations interested in technology development and demonstrations are requested to submit their proposals in the areas of their expertise and interest. The proposals be prepared in the format given at – [www.mnre.gov.in \ Programme \ Technology \ Research Development and Demonstration \ R&D Formats \ Annexure – I](http://www.mnre.gov.in/Programme/Technology/Research%20Development%20and%20Demonstration/R&D%20Formats/Annexure%20-%20I) (<http://www.mnre.gov.in/file-manager/rd-formats/rnd-tech-dpf-a1.pdf>), of the Ministry's website may be submitted ( one hard copy along with soft copies in MS word and in pdf formats) to **The Director (Geothermal Energy), Ministry of New and Renewable Energy, Block No. 14, CGO Complex, Lodi Road, New Delhi-110003**, email id: [gkumar.mnre@nic.in](mailto:gkumar.mnre@nic.in) within 45 days from the date of publication of this advertisement i.e. on or before 4<sup>th</sup> May 2015.