

41/03/2018 - SPV Division  
Ministry of New and Renewable Energy  
Government of India

Block No14, CGO Complex,  
Lodi Road, New Delhi-110 003  
Dated: 16<sup>th</sup> February 2018

**Office Memorandum**

**Subject: Testing Procedure of Solar Water Pumps -regarding**

Ministry invited views of stakeholders on present testing procedure for solar water pumps. Based on comments received and discussions held with stakeholders following has been decided on testing of solar water pumps:

1. The hot and cold profile testing shall be done through simulation. In addition, real condition testing shall be done at least for one normal sunny day (with average solar radiation above 4 kWh/m<sup>2</sup>/day) to assess the performance of the pump.
2. Information about the various testing fee and charges applicable for solar water pumps are required to be placed on the website by all authorized Test Labs.
3. The Test Certificate shall be in the name of the System Integrator/Manufacturer, who participates in the transparent bidding process.
4. In case any damaged of sample during transportation, the test labs shall allow the applicant to resubmit the components / system prior to testing without any extra fee.
5. If the solar pump system is approved by a test lab with a particular brand of solar PV modules, the system integrators may be allowed to use the other brand of solar PV modules in the approved solar pump system, provided the test lab certifies that other brand of solar PV modules are of same capacity (wattage) with parameters and characteristics not inferior of the already tested solar PV module.
6. Test labs shall share the soft copy of the test report with respective applicant. In case of failure of the system, the applicant should be informed about the various parameters on which the sample was failed.
7. The test report should include the information about the threshold radiation at which the solar pump starts and stops delivering water.
8. The manufacturer's own testing facility cannot be considered as 'Authorized Test Centre' due to conflict of interests.

These issues are with the approval of competent authority.

*Nikhil Gakkhar*  
16/2/18

(Nikhil Gakkhar)  
Scientist –'B'

Email: [nikhil.mnre@gov.in](mailto:nikhil.mnre@gov.in)

To  
All Concern