RenewSys launches India's first NABL accredited lab for Encapsulants, Backsheets and their raw material, celebrates Technology Days (Nov. 26-30, 2019) to create awareness about breakthroughs in solar

- *Specialized facility ensures quality assurance on demand for project financiers, solar plant developers, system integrators, module manufacturers, and solar polymer component manufacturers.*
- *Lab tests critical performance parameters for Encapsulants and Backsheets like Gel Content, UV Cut Off, Thermal Shrinkage, Adhesion strength, etc.*
- *RenewSys is the 1st Integrated Manufacturer of Solar PV Modules and its key Components – Encapsulants (EVA & POE), Backsheets and Solar PV Cells*

India, November 2019: RenewSys has launched a one-of-its-kind 'Photovoltaic Laboratory' specifically equipped to test Encapuslants, Backsheets and their raw materials. This NABL accredited lab has been set up at the company's polymer specialty division in Bengaluru.

With impetus being given to lower tariffs for solar plants and PV installations, there is pressure to deliver PV modules at competitive prices. However in such a scenario it is also imperative for installers and developers to ascertain that the modules deliver on performance expectations, and lifetime.

Simultaneously an increase in field failures of solar power plants are being observed due to substandard or compromised module polymer components i.e. Encapsulants (EVA & POE) and Backsheets. This is significant because unlike micro-cracks and breakage in cells, compromised quality of polymer components is not visible to the naked eye. Thus periodic testing of the components used in modules becomes a vital indicator of overall PV module quality.

While there are several tests and centres to test modules as a whole there was no dedicated lab in India to test Encapsulants, Backsheets and their raw materials. Hence RenewSys has established this specialized, independently run facility that ensures quality assurance on demand for project financiers, system integrators, solar plant developers, module manufacturers, and solar module polymer component manufacturers alike.

Run by a team of experts from the solar industry, it has the capability to test all polymers including Encapsulants, Backsheets and their raw materials. The lab conducts tests like Gel Content, Density, Tensile Strength and Elongation, UV cut off, Opacity, etc.

Avinash Hiranandani, Managing Director, RenewSys India said, "The Indian solar industry is growing by leaps and bounds each year. Quality of the components used and their impact on plant performance will start gaining importance as PV plants get older and we see modules reaching mid-life in the field.

Preempting the need for a better understanding of Encapsulants and Backsheets, both key components for module life, RenewSys has been working on innovation and reliability testing of these components at our Bengaluru Polymer Specialty Division.

This is the driving force behind setting up India's 1st and only dedicated Encapsulant and Backsheet testing facility that is NABL accredited. It has already begun providing on-demand access to Project Developers and Module Manufacturers.

We are also organizing Technology Days from Nov 26-30, 2019. at our Bengaluru facility to help familiarize project financiers, EPC players, system integrators, etc. with the lab and to showcase some breakthrough technology related to Encapsulants and Backsheets.

Concurrently RenewSys has also set up a world class reliability testing laboratory for PV modules that is India's only Intertek certified Satellite® testing facility at Hyderabad. This lab has seven environmental chambers and that test modules in accelerated and adverse environmental conditions like damp heat, dry heat, temperature cycling, UV exposure, etc. The two labs can in tandem provide a truly holistic overview of module health."

Who should avail of this facility:

1. **PV Module Manufacturers** - to ensure the reliability of their modules' performance, they test the quality of the Encapsulants and Backsheets that they are purchasing.

2. **Solar Project Developers, EPC Companies, and System Integrators** - to affirm the reliability and quality of the polymer components (like Encapsulant and Backsheet) used in the modules, that are being installed in their projects.

3. **Encapsulant & Backsheet Manufacturers** - to test raw materials that will be used in the manufacture of Encapsulants and Backsheets, and to use these test reports to supplement datasheets and product descriptions.

About Us: RenewSys is the 1st integrated manufacturer of Solar PV Modules (750 MW) and its key components – Encapsulants (1.4 GW), Backsheets (3 GW) Solar PV Cells (130 MW).

It is the 'Renewable Energy' arm of the the Enpee Group of companies, an international conglomerate with nearly 60 years of manufacturing experience in diversified businesses. Read more at **www.enpee.com**

Since 2015, RenewSys has consistently proven itself as a global, quality manufacturer, scaling up to the 750 MW we have achieved today by winning the trust and support of partners worldwide.

RenewSys has offices in India, Mauritius, Nigeria, South Africa, Singapore, UAE, UK, China and representative offices in USA, Mexico, Brazil and countries across Europe; our distributor network is evolving as well.

The RenewSys Bengaluru plant houses a state-of-the-art reliability testing lab and world-class European machinery that has produced and supplied over 8 GW of Encapsulant and Backsheet worldwide.

One of our highest grossing export products is POE Encapsulant, which combines the benefits of existing POE and TPO Encapsulants for an unmatched performance in both Glass to Glass and Glass to Backsheet PV modules. This product is India's only UL certified POE and was recognised as a Finalist at the InterSolar Europe Awards 2018.

The RenewSys Hyderabad facility is an innovation hub, that has to its credit **India's 1st** 5BB and 6BB PV cells, India's only Bi-Facial, Glass- to -Transparent Backsheet Module, High efficiency - DESERV Galactic and DESERV Extreme modules and specially designed flexible, lightweight modules; the RenewSys Hyderabad Facility is a hub for cutting edge R&D, design thinking and innovation. It is also home to India's only Intertek Certified Satellite Testing Laboratory at Hyderabad where solar modules can be tested under various conditions like damp heat, temperature cycles, UV exposure variances etc.
Read more at www.renewsysworld.com