



Press Release

HHV wins the India Semiconductor Association (ISA) Technovation Award 2011

Mumbai, 22nd December, 2011: The Bangalore-based **Hind High Vacuum Company Private Limited (HHV)** announced that it has won the India Semiconductor Association's coveted Technovation Award in 2011 for indigenously developing an automated line for high volume production of 1m by 1m amorphous silicon thin film solar photovoltaic modules. The capacity of the line is 10 MW per year. The outstanding technical design and novel processes employed in HHV's system make it much more cost-effective than other such lines available abroad.

The award was received by Mr Prasanth Sakhamuri, Managing Director of HHV, at the recently held ISA event from Mr M N Vidyashankar, Secretary, IT, Karnataka.

Thin film solar photovoltaic panel production involves very complex technology and HHV is the only company in India which has mastered it, under the guidance of Professor A.K.Barua of the Indian Association of Cultivation of Science (Kolkata), who is a leading light in India in solar photovoltaics.

Steps are now being taken at HHV's research lab for solar photovoltaics to further bring down the cost of thin film SPV panels by developing high efficiency next generation tandem cells combining microcrystalline technology and amorphous crystalline technology.

The conversion of sunlight into electricity is one of the most promising renewable energy options for India which receives a high level of sunlight throughout the year over most of its area. There are two commercially prevalent methods used throughout the world for achieving this conversion. One uses thick panels of crystalline material such as crystalline silicon and the other utilizes thin films of material such as amorphous silicon deposited on a substrate.

The advantages of the latter are lower costs due to use of much less material as well as better performance in diffused light environment such as late afternoon and cloudy skies. Thin film panels can also withstand the higher temperatures of desert environments whereas crystalline material panels almost stop producing electricity at high temperatures.

About Hind High Vacuum Company Private Ltd. (HHV)

Established in 1965 at Bangalore to develop Indian self-reliance in high vacuum technology, HHV has now grown into a leading global player involved in the design, development and manufacture of off-the-shelf and customized equipment and products in the fields of Vacuum Technology, Solar Photovoltaic Energy and Thin Films Technology.

HHV is producing high quality crystalline and thin film SPV modules and production tools that achieve world class efficiencies and reliability in its new manufacturing centre at Dobbsspet industrial area near Bangalore.

For more details visit www.hhv.in

About India Semiconductor Association (ISA)

ISA is the premier trade body representing the Indian Electronic System Design and Manufacturing (ESDM) industry. It has over 150 members - both domestic and multinational enterprises. ISA is committed towards building global awareness for the Indian ESDM industry and supporting its growth through focused initiatives in developing the ecosystem. ISA works closely with the governments, in the Centre and the states, as a knowledge partner of the sector.

For more details visit http://isaonline.org/Technovation_2011