

Technology Development Board has entered into an agreement on 20th September, 2018 with M/s Perfect Infraengineers Limited, Mumbai for financial assistance for the project “Development and commercialization of hybrid thermal systems”.

M/s Perfect Infraengineers has adapted an imported technology from M/s Suntrac USA for the parabolic solar thermal panel system and have integrated with the HVAC system. The company has further made efforts for the indigenization of the technology by incorporating Indian VRV systems in place of VFD systems with proper temperature sensors & controls. The Patented computer controlled parabolic concentrator produces more energy than any other panel of the same size.

This technology has solved two major issues with solar thermal panels, degradation and stagnation. Current solar thermal panels cannot regulate the amount of heat being added to a working fluid or gas. When the systems are not in use, it can generate extreme heat which even damage the coatings of an evacuated tube panel. When integrated with HVAC equipment this could cause severe damage to the refrigerant which may cause the compressor to fail. Perfect Infra provides ready to install systems with solar collector with pre-installed smart controls. The Smart Panel has provided the solutions by controlling the heat that the solar thermal panels generate. The patented panel design utilizes RiteTemp™ technology which modulates the temperature of the liquid or gas as it exits the panel. The innovative product offers upto 40% energy savings with a 4’*8’ Panel for a 10 HP machine.



Dr. Bindu Dey, Secretary, TDB exchanging the Loan Agreement with MD Mr. Nimesh Mehta of M/s Perfect Infraengineers Limited, Mumbai

#TDB financially supports # M/s Perfect Infraengineers Limited, Mumbai for “Development and commercialization of hybrid thermal systems”.