



Electronics Corporation of India Limited
(A Government of India - Department of Atomic Energy - Enterprise)
HYDERABAD - 500 062

PRESS RELEASE

Dated: October 10, 2013

ECIL's contribution for critical equipment to CERN Laboratory at Geneva

Electronics Corporation of India Limited (ECIL) is among the prestigious institutions which participated in setting up the Large Hadron Collider (LHC) facility at CERN (European Organization for Nuclear Research) in Geneva, where the theory of the **2013 Noble prize winning physicists Francois Englert and Peter Higgs** was confirmed with the discovery of the Higgs particle last year. The initiative to participate in the significant work at CERN was taken up by the Department of Atomic Energy (DAE). Under CERN-DAE Collaboration, **ECIL supplied and commissioned at CERN 70 nos. of Breaker Control Modules, 1450nos. of Quench discharge Local Protection Units and 5500 nos. of Quench Heater Power supplies.**

The main function of the Breaker Control Modules is Powering, Control and Monitoring of special DC Circuit Breakers of 13 kilo amps capacity used in Power lines to extract accelerator ring's energy.

Quench Discharge Local Protection Units detects the quenches in any state of the powering cycle of the accelerator and trigger the Quench Heater Power Supplies

Quench Heater Power Supplies energizes the quench heater strips mounted on the magnets located in insertion areas and quenches the super conducting Magnets within one second in case of magnet malfunction

Shri P Sudhakar, Chairman and Managing Director of ECIL informed that the successful and timely completion of the above projects at CERN established ECIL as an organisation capable of meeting International commitments and opened up opportunities to participate in upcoming major international projects like ITER (International Thermo-Nuclear Experimental Reactor) at France and FAIR (Facility for Anti-Proton and Ion Research) at Germany. He also said that ECIL is setting up a state-of-the art Power Electronics Laboratory at its premises in Hyderabad to meet the new opportunities.

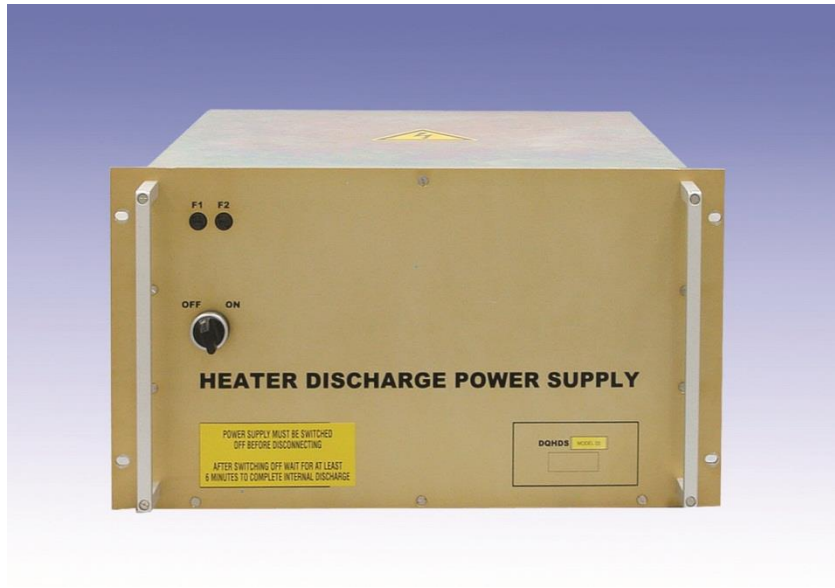


Fig: Heater Discharge Power Supply



Fig: Breaker Control Modules

*Issued by Corporate Communications, Electronics Corporation of India Limited, Hyderabad
Phone: 27122584 (O) Fax: 27120671 Email: cpr@ecil.co.in*