

## Compact Mil Rugged DAQ Console system for 256 I/Os

**Year of Implementation :- ( 2010-2011)**

**Client and Location: - Lastec, DRDO, New Delhi**

### **Project Summary:-**

- Fitment of All DAQ card in their respective slots in rugged computer.
- All Hardware Modules and Board with all Power supply fitted in rack.
- Installation and Commissioning of whole unit with all wiring materials as per required Standard.
- Mounting of the KVM console on the top of the rack with enclosure.
- Wiring from mil grade connectors to signal conditioning modules and output module to the mil grade connectors.
- Proper routing of signal and power cables in separate cable trays.
- MIL Grade Connectors to be mounted on the rugged rack.
- EMI/EMC Protection for all supplied Power supplies.
- Functional testing of completely fitted rack after installation of DAQ hardware including
- The software development in LABVIEW with actual operation Mimics and GUI.
- Environmental testing as per the Environmental Test Specifications and EMI/EMC of the Complete system from LRDE Bengaluru and RCI Hyderabad LAB after installation of the complete system.
- Detailed engineering document of complete system mentioning the wiring scheme submitted to LASTEC after completion of job.
- **Using Advantech High speed PCI I/O DAQ cards and signal Conditioners**

