

Location: **Developed for RDSO Lucknow**

Year of Implementation: **1998-2000**

Product Summary:

System for Performance Testing of Electric Locomotive	
Project	System for Performance Testing of Electric Locomotive
Installation and Development	<p>User needed to do a sequence of test ie Power Rating and Performance, Rheostatic braking characteristics, Tractive Resistance, Running Resistance, Adhesion Tests and power Rating etc. to check the Performance of Diesel Engine</p> <p>For this user has to measure the signals at different point in the engine. User has to measure the different type of parameters like quantity of voltage, current, temperature, pressure, speed torque, etc., analyze the data, Visualize the data and make the reports.</p> <p>We did the PC-based automation for this as follows:</p> <p>Using the PCL series modules of Advantech's, we did the interfacing of their instruments with the computer.</p> <p>Developed the software, which does the measurement of around 'n' number of channels, scaling, analyzing, visualizing in GUI form and logging the data.</p> <p>Provision for setting the limits for alarming, provision of setting the time rate for logging the data and setting the time sequence to operate the valves or switches is also provided in the application. When the test is complete, user can visualize the reports of different types, in different forms ie. Graphical/Tabular etc. and do the printing.</p>
Software & Language Used:	Operating System Win98 and Language DasyLab4.2 and language Visual C