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ISO 9001:2008 QM-032 Certified

**Gear Box / Gear Transmission Test** Set up.

**Dynamometer, Controls & Test Bed** 



#### Installation at Rossi Geared Motor Pvt Ltd, Coimbatore, INDIA

Dynamometer upto 10000 Nm Capacity to test Various types of Gear Boxes – Worm, Worm Helical, Helical, Bevel & Planetary Gear Boxes.

Set up comprises Dynamometer, Computerized Control Panel with Data acquisition, to monitor, Input Electric Power & **Output Mechanical** Power, with Efficiency measurement. T-Slotted Test Bed with X, Y & Motorised Z axis (Length, Width & Height) with Motor **Mounting Portable** Table (Castor Wheels with Locks) with X,Y & Motorised Z axis adjustments



# Installation at Rossi Geared Motor Pvt Ltd, Coimbatore, INDIA



## Installation at POWER BUILD LTD, Anand, Gujarat

Dynamometer up to 10000 Nm Capacity to test Various types of Gear Boxes – Worm, Worm Helical, Helical, Bevel & Planetary Gear Boxes.



# Installation at POWER BUILD LTD, Anand, Gujarat



#### Installation at TERYAIR Equipments, Vasai, Maharashtra

Specially designed Bevel
Gearbox for Sea under water
operation, for Ship / Vessel
direction control, is tested on
Dynamometer for Torque,
Speed & Power Performance
& Endurance. Each Gear box
is Loaded up to 150% Torque
Capacity, up to 3600 RPM for
2 minutes in clockwise &
2 minutes in anti-clockwise
direction - continuously for
8 hour.



Installation at TERYAIR Equipments, Vasai, Maharashtra





Installation at GNA Udyog Ltd, Butala, Phagwada, Punjab.

Truck Engine, Gear Box/Transmission & Cardan Shaft, all in-line Test



# Installation at Steer Engineering Pvt Ltd, Coimbatore & Banglore

**Helical Gear Box test on Eddy Current Dynamometer** 



# Installation at Deekay Gears, Bhandup, Mumbai.

**Bevel Gear Box testing on Eddy Current Dynamometer** 



# Installation at Deekay Gears, Bhandup, Mumbai

Bevel Gear Box testing on Eddy Current Dynamometer. Eddy Current Dynamometer, Self Cooled, to avoid water cooling hassles.



## Installation at Deekay Gears, Bhandup, Mumbai

Bevel Gear
Box testing on
Eddy Current
Dynamometer.
Eddy Current
Dynamometer,
Self Cooled, to
avoid water
cooling
hassles.



Installation at Deekay Gears, Bhandup, Mumbai



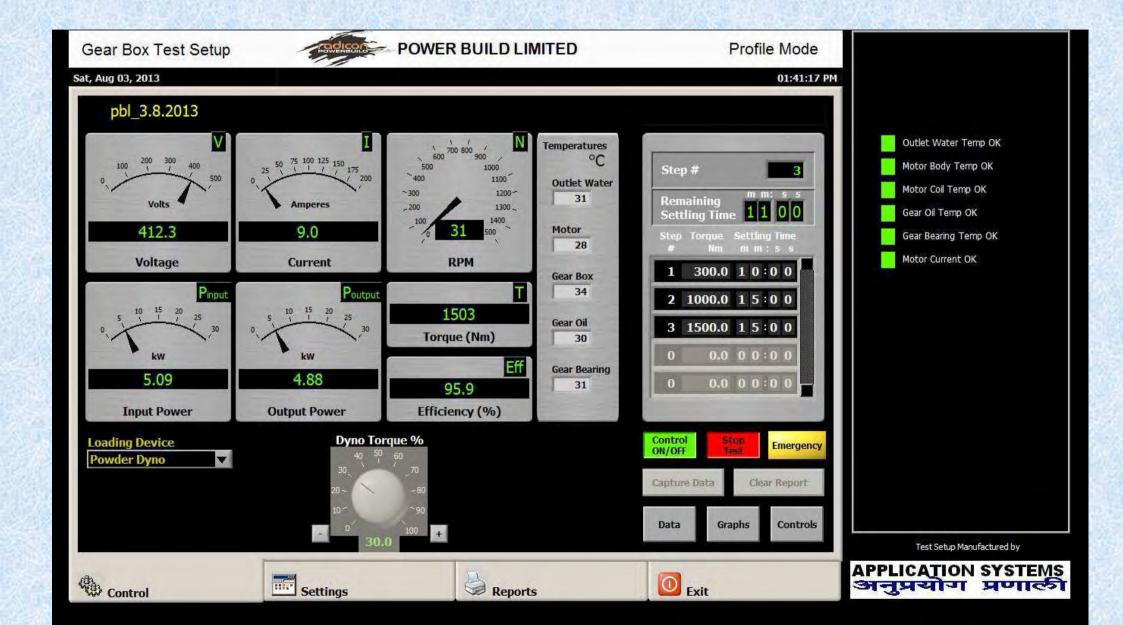
Our Proprietary APPSYS MOTOR TEST/ GEAR BOX TEST software developed for motor test to monitor & display Motor Input Power, Output Power, Efficiency, Input Voltage, Motor No Load Current, Full Load Current, No Load & Full Load Speed, No Load & Full Load Torque, Power factor, Motor temperature, bearing temperature, winding temperature.

- PC based Motor test set up, Window XP / Win7 operating systems, PC hardware, Core 2 Duo PC with built in RAM & PCI Card with necessary Digital & Analogue inputs & outputs, Power analyzer,
- •Input Power (Motor Power Sensor to sense Motor Power To monitor Motor electrical Input Power & for Calculation of efficiency) & Output Power, Speed, Torque, Efficiency are displayed on Monitor & stored in table & graphs in MS Excel format.
- PC Auto & PC Manual mode selector Soft push button switch on Monitor screen. In PC Auto mode, Data is captured on predetermined (Site settable) time & Torque Loading in 100 steps (independently settable), whereas in PC Manual mode -Data is captured manually by pressing data capture soft button on screen. Captured data is exported to MS Excel in Table forms & in Graphs form to show Torque-Speed characteristics, Torque-Current and Speed-Current, Efficiency characteristics, Torque-Speed Oscillations at steady state Torque at different temperatures, Temp measurements etc. & custom characteristics required by clients.

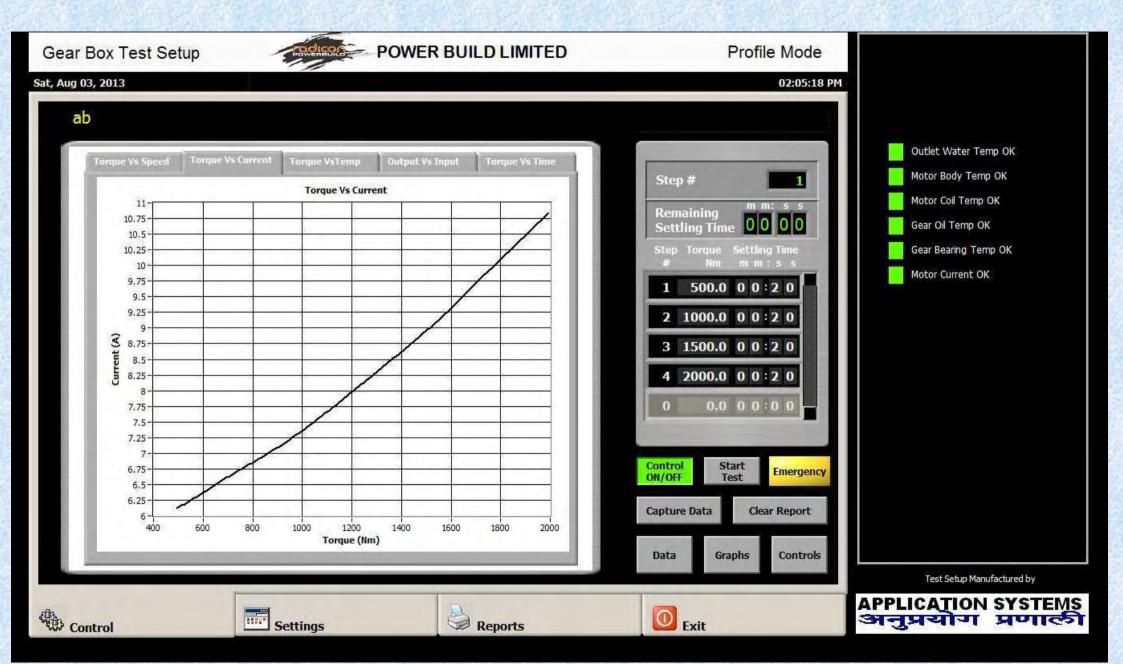
#### Computerized Control panel with Data acquisition & Control



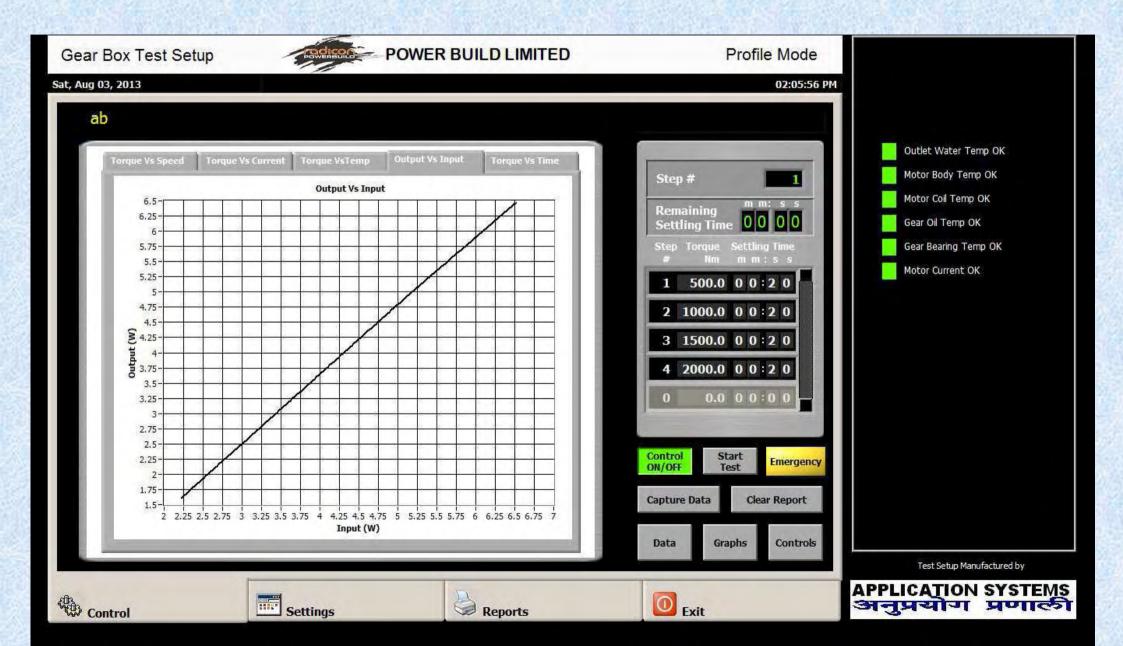
### Control Panel on PC Monitor - Test Configuration



#### Torque - Current Curve



#### Efficiency - Output V/s Input Curve



## **Gear Box Test Report**

