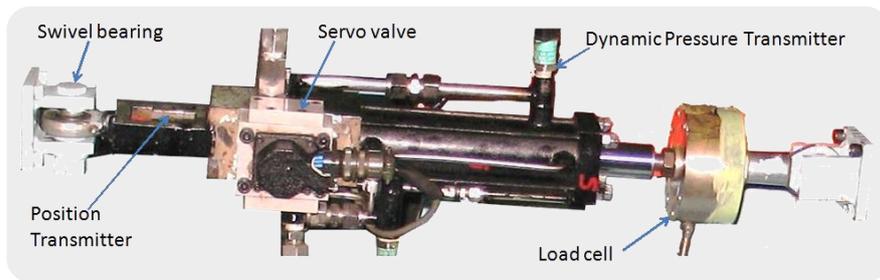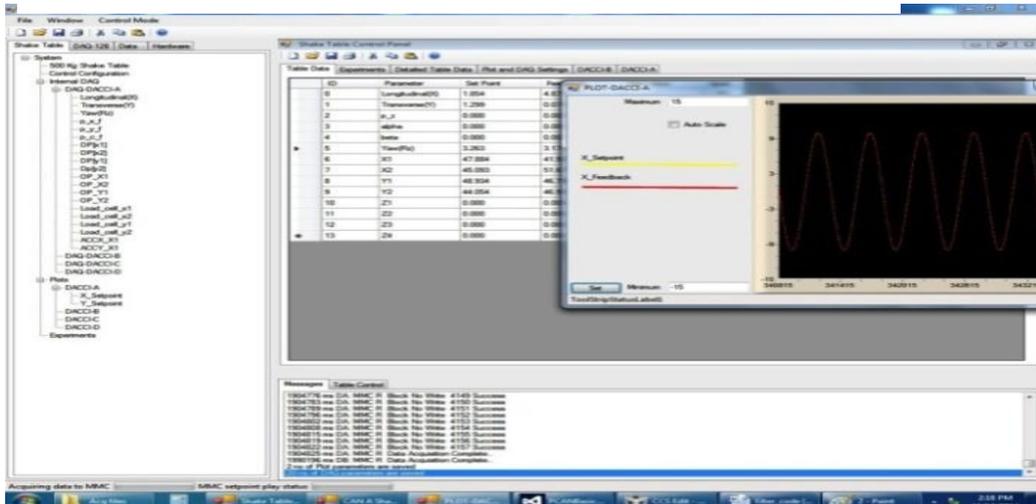# Indigenous developed Shake Table Technology

Shake tables were imported from outside India. Dependency on outside support for maintenance was an issue while importing these tables. Therefore, indigenous development of shake table was need to become self reliant. Shake Table requires high performance actuators, advanced control algorithms, Multi-axis Servo controllers for feedback and drive and user friendly GUI. All of these have been developed in-house.

Salient features -500Kg, 6DOF shake table:

Degrees of freedom	: Six
Size of table	: 0.5m X 0.5m
Max payload	: 500Kg
Max X, Y offset of payload from C.G.	: 0.2m
Frequency of operation	: 0.01-50Hz.
Peak horizontal acceleration(X&Y)	: 1.5g @ full load, 5g @ no load
Peak vertical acceleration(Z)	: 2g @ full load, 5g @ no load
Max. Horizontal displacement(X&Y)	: ±0.05m
Max. Vertical displacement(Z)	: ±0.05m
Duration of test	: 30 to 60Sec
Simultaneous Wave form in all 3 axis	: sine, sine sweep, random, spectrum compatible time history

High Performance Linear Actuator

GUI

Hydraulic accumulator

4Nos of horizontal servo hydraulic actuators

500 x 500mm table top

Reaction brackets

4Nos of vertical servo hydraulic actuators

Shake Table

Multi-Axis Servo Controller

Seismic testing of Lead Acid battery cell

Seismic testing of Control panel