

Structural Engineering Laboratory established during 1987 at a cost of Rs.5 Crore, partially funded by UNDP covering an area of 1500 Sqm, located at Kolar Gold Fields, about 100 km from Bangalore.

## TEST FACILITIES

- ◆ Fatigue Testing.
- ◆ Experimental Stress Analysis Using Strain Gauge Technique.
- ◆ Vibration Measurement & Analysis
- ◆ Strain Gauge Based Static & Dynamic Data Acquisition

## TEST FACILITIES

## DESCRIPTION

### FATIGUE TESTING



### Fatigue Testing

The fatigue testing laboratory is equipped with highly sophisticated, computer- controlled servo hydraulic fatigue testing system to carry out fatigue tests on various type of structural components. The tests are conducted using 5 Nos. linear servo –hydraulic actuators  $\pm 500$  kN capacity as well as 2 Nos. Rotary actuators of 16 kNm capacity. The specially built strong floor ( size 10m X 20m ) of the laboratory can take up dynamic loads of 500 Tons.

## TEST FACILITIES

## DESCRIPTION



### Experimental stress analysis using strain gauge technique

The strain gauge laboratory is fully equipped for static as well as dynamic stress analysis with facilities like Somat e-DAQ data acquisition system, SMC wireless data communication, n-Code stress analysis software for stress analysis & fatigue life estimation .



### Vibration measurement & Analysis :

The Vibration analysis laboratory has many latest instrumentation for measurement and analysis. This laboratory equipped with various type of Accelerometer , FFT analyser, Charge amplifier and driver seat vibration measurement .

**R&D is looking forward to provide quality testing & services to the industry. Interested parties may please approach :** General Manager, R&D Division, BEML Limited  
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