



Date : 03.09.2014

## **RETROFIT FOR EXISTING UNIVERSAL TESTING MACHINE**

### *Details of the Existing Machine*

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|---|---|---|
| 1. Make   | : | Lloyd Instruments – United Kingdom  |
| 2. Model  | : | Lloyd L1000R  |
| 3. Year of Purchase                                     | : | 1991  |
| 4. Capacity   | : | 5 kN  |
| 5. Load Cell  | : | Single – 5kN Capacity   |
| 6. Force Measuring System                               | : | Meets BS 1610;1985-Grade 1, ASTM E4, DIN 51221  |
| 7. Force Measuring Accuracy                             | : | Better than 1%  |
| 8. Cross Head range                                     | : | 0.2 to 1000 mm/min  |
| 9. Crosshead Speed accuracy                             | : | ± 0.5% of Set Speed   |
| 10. Frame Stiffness                                     | : | Greater than 25 kN/mm   |
| 11. Main Frame dimensions                               | : | Height : 1550 mm, Depth : 500 mm, Width : 600 mm  |
| 12. Maximum working width                               | : | 400 mm  |
| 13. Maximum Cross Head displacement,<br>Excluding Grips | : | 1100 mm   |
| 14. Fixtures / Grips available                          | : | DOG-BONE Fixture (10 kN Capacity) for Tensile<br>Strength Test, 3 Point Bending Strength<br>(Modulus of Rupture-MOR (10kN Capacity) are<br>available in working condition |

**Status** : Equipment is not in working condition. Service supports from the principles are not available since the Model is brought under OBSOLETE status by them. There are no physical damages either on Mechanical, Electrical or Electronic parts of the equipment.

**What is required** : Use suitable retrofit for the Main frame, find suitability of using all working parts, use suitable software to get output required.

**Where it is installed** : Ceramic Laboratory, BHEL-EPD, Opp. Prof.CNR Rao Underpass, Opp. IISc, Malleshwaram, Bangalore 560012

Interested parties are Welcome to inspect the equipment in As is Where is condition to get First Hand Information on all working days from Monday through Saturday between 1.30 Pm to 3.30 PM by obtaining prior visit appointment.

### **Criteria for the response** :

- Interested parties are to be in the business of manufacturing UTM with software interface capabilities and working knowledge on the machine.
- Interested parties should have working experience in retrofit business of UTM and should demonstrate with reference of their recent work of similar nature.
- Interested parties should be part of business group where the company is directly involved in such activities. Should not be on contract / hire / sub-lease type of operation.