**Digital Universal Testing machine 200 KN**

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| **Booking Details** | **Name of the equipment:**  Digital Universal Testing machine 200 KN  **Make & Model:**  EIE Instruments. & UTM -2011  **I-Stem Registration ID-**  3220835  **Category of Instrument**  Characterization and Testing  **Types of Analysis / Testing**  Compression, tension etc  **Application:**  It has to be planned based on the need  **Description of Instrument**  This machine is designed to perform compression, tension & flexure tests. | |
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**Contact Details**

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**Features, Working Principle and Specifications**

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| **Features of the equipment**   * Digital Universal Testing Machine (UTM) capable of performing **tension, compression, and bending tests**. * User-friendly digital interface for real-time display of load, displacement, and test status. * Rigid two-column frame design suitable for accurate load application and specimen alignment. * Suitable for both **academic laboratory experiments** and **advanced research**. * Versatile grips and attachments for different specimen types. | **Unique features/Measurement capabilities, if any**   * Capable of testing **steel bars (tension test), concrete specimens (compression), and concrete beams (bending)** using interchangeable fixtures. * Digital load measurement with high precision and repeatability. * Supports automatic data logging and report generation for analysis and documentation. * Provides load vs. displacement curve for structural interpretation. |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * **Measurement / Sample Specifications:**   Suitable for steel bars, and RCC beams.   * **Maximum Load Capacity:**   200 kN (20 Tonne).   * **Machine Type:**   Fully Digital Universal Testing Machine with hydraulic loading and electronic control.   * **Make & Origin:**   Make: EIE Instruments.  **Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions** | **Measurement/Sample specifications:**   * **Steel bars** (typically 8 mm to 16mm dia) for tensile testing. * **Concrete beams** for flexural/bending tests. * Tests performed as per **IS code standards** with support for custom research setups. * Load capacity up to **200 kN**, suitable for small to medium-sized structural components. |

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| * Steel reinforcement bars, concrete cubes/cylinders, and beam specimens. * Samples should ideally conform to **standard IS code sizes**, or be pre-approved for research-specific dimensions.   **Quantity:** Typically, **3 specimens** per test type for statistical reliability.  **User Charges Rs. (GST Extra)** |

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