**Computerised Static Triaxial equipment**

**Booking Details**

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|  | **Name of the equipment:**  Computer Controlled Triaxial  **Make & Model:**  HEICO  **I-Stem Registration ID-**  **……………………..**  **Category of Instrument**  Geotechnical Engineering  **Types of Analysis / Testing**  Soil Sample  **Application:**  To get shear strength of soil.  **Description of Instrument**  Static triaxial testing CU & UU tests |

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| **Book through I-STEM:**  <https://www.istem.gov.in/>  **Slot Booking Link**  [I-STEM Slot Booking link for External User](https://www.istem.gov.in/) | **Booking available for**  Internal and External Both  **Requisition form for**  [Internals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf)  [Externals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf) |

**Contact Details**

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**Features, Working Principle and Specifications**

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| **Features of the equipment**   * Used for conducting Unconsolidated Undrained (UU), Consolidated Undrained (CU), and Consolidated Drained (CD) triaxial tests on soil specimens under static condition * Allows testing under different confining pressures (σ3) and axial loading conditions while maintaining controlled strain rates. | **Unique features/Measurement capabilities, if any**   * Pressure Volume Controllers for measuring change in Volume & Constant Pressure |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * Load upto 50kN * LVDT displacement 0.01mm-50mm * Load cell 50kN * Pressure Sensor 0.01kg/cm2 to 10kg/cm2 * Universal Load Cell | **Measurement/Sample specifications:**   * 38mm, 50mm and 75mm dia |

**Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions**

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| * All soil sample (Clay, Silt, Sand, etc) minimum 1 Kg |

**User Charges Rs. (GST Extra)**

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| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 1500/- per sample | 3000/- per sample | 3000/- per sample | 5000/- per sample |