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| **C:\Users\user\Downloads\IMG_20240207_145356.jpg****Computerised Static Triaxial equipment** | **Name of the equipment:** Computer Controlled Triaxial**Make & Model:**HEICO Model: HS26.635 & 1502184**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 |

**Booking Details**

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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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| **Faculty In-charge:** Dr.Seethalakshmi **Email ID:**seetha@nitc.ac.in**Phone number:** +91-9442259922 | **Technical Staff:** Nayana P nayanap@nitc.ac.in Lini Ignatius C liniignatiusc@nitc.ac.in Ajith Augusthy ajithaugusthy@nitc.ac.in | **Department**CED**Office Email ID**cedoffice@nitc.ac.in**Location**Geotechnical Lab, Department of Civil Engineering**Lab Phone No**0495-2286245 |

**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*** Load Frame with Control Electronics
* Lab Software and Data Acquisition System
* 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
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**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
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**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 |