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| **Servo Controlled Cyclic Triaxial Testing**  **Apparatus with Pneumatic Actuator, equipment** | **Name of the equipment:**  Cyclic Triaxial Set up  **Make & Model:**  HEICO; Model: HS28.630 & Sr no. 1505188  **I-Stem Registration ID-**  3220822  **Category of Instrument**  Geotechnical Engineering  **Types of Analysis / Testing**  Soil Sample  **Application:**  Assessing the cyclic strength and liquefaction resistance of soils.  **Description of Instrument**  Sinusoidal axial loading with frequency up to 10 Hz. |

**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/equipment-info/20822/Digital-Computer-Controlled-Static-Triaxial-Test-Facility) | **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. Renjitha Mary Varghese, **Email ID:**  [renjitha@nitc.ac.in](mailto:renjitha@nitc.ac.in),  **Phone number:**  +91-9496887320 | **Technical Staff:**  Nayana P  [nayanap@nitc.ac.in](mailto:nayanap@nitc.ac.in)  Lini Ignatius C  [liniignatiusc@nitc.ac.in](mailto:liniignatiusc@nitc.ac.in)  Ajith Augusthy [ajithaugusthy@nitc.ac.in](mailto:ajithaugusthy@nitc.ac.in) | **Department**  CED  **Office Email ID**  [cedoffice@nitc.ac.in](mailto: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 dynamic condition * Allows testing under different confining pressures (σ3) and dynamic loading conditions. | **Unique features/Measurement capabilities, if any**   * Resilience Modulus can be determined |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * LVDT displacement 0.01mm-50mm * Load cell 5kN * Pressure Sensor 0.01kg/cm2 to 10kg/cm2 * Universal Load Cell * Maximum dynamic load 5kN. * Frequency – 1 to 10 Hz. | **Measurement/Sample specifications:**   * 38mm, 50mm and 100mm dia * All kind of soil samples |

**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** |
| 2000/- per sample | 9000/- per sample | 9000/- per sample | 15000/- per sample |