**Cyclic Triaxial Set up equipment**

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|  | **Name of the equipment:**  Cyclic Triaxial Set up  **Make & Model:**  HEICO; Model: HS28.630  **I-Stem Registration ID-**  **……………………..**  **Category of Instrument**  Geotechnical Engineering  **Types of Analysis / Testing**  Soil Sample  **Application:**  Assessing the cyclic strength and liquefaction resistance of soils.  **Description of Instrument**  Cyclic 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/) | **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 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 |