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