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| **C:\Users\user\Downloads\IMG_20240207_144610.jpg** | **Automatic Consolidation Test Facility with 3 stations equipment**  **Name of the equipment:**  Automatic Consolidation Test Facility with 3 stations,  **Make & Model:**  HEICO; Model: JO-138  **I-Stem Registration ID-**  **……………………..**  **Category of Instrument**  Geotechnical Engineering  **Types of Analysis / Testing**  Soil Sample  **Application:**  Consolidation properties of soil samples under various conditions.  **Description of Instrument**  Measures the magnitude and rate-of-consolidation of saturated cohesive soils using axial strain-controlled conditions, when the soil specimen is restrained laterally and drained axially to one surface. |

**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**   * Fully automatic DAQ system transferable to PC * Axial Loading device * Chamber pressure measuring device * LVDT deformation measuring device * Porous disc | **Unique features/Measurement capabilities, if any**   * Load Frame with Control Electronics * Lab Software and Data Acquisition System |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * Adjustable rate of loading * LVDT 0.01 – 50mm * Porous stone 90mm & 60mm | **Measurement/Sample specifications:**   * Sample size 60mm dia and 20mm thickness |

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

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| * Soil sample (Clay and Silt) minimum 100g |

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

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| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 1000/- per sample | 5000/- per sample | 5000/- per sample | 8000/- per sample |