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| **Constant Rate of Strain (CRS) consolidation test equipment** | **Name of the equipment:**  Constant Rate of Strain (CRS) consolidation test  **Make & Model:**  AIMIL  **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**

**Contact 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) |

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| **Faculty In-charge:**  Dr. Anjana Bhasi,  **Email ID:**  [anjanabhasi@nitc.ac.in](mailto:anjanabhasi@nitc.ac.in),  **Phone number:**  +91-7353245331 | **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**   * Controlled saturation * 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 * Saturation can be controlled * 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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| * All 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** |
| 2000/- per sample | 9000/- per sample | 9000/- per sample | 15000/- per sample |