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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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**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
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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 and Silt) minimum 100g
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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 |