500kN SERVO HYDRAULIC ACTUATOR SYSTEM

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|  | **Name of the equipment:** 500kN Servo Hydraulic Actuator system **Make & Model:**BISS, Bangalore Bi-03-Ec-801-05**I-Stem Registration ID-** **……………………..** **Category of Instrument**(Advanced Manufacturing facility / Characterization and Testing / Computational Facility / Bioscience and Technology / Sample preparation)**Types of Analysis / Testing**1. Quasi static cyclic load testing on beam column joint
2. Cyclic three-point load testing on beam
3. Lateral cyclic load test on concrete frame

**Application:** 1. Strain controlled load application
2. Quasi static reverse cyclic loading.

**Description of Instrument**A 500kN Servo Hydraulic Actuator system bio-printer for engineers and researchers |

**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/)**Contact Details** | **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**Servo hydraulic actuator is double ended double acting high precession linear actuator. | **Unique features/Measurement capabilities, if any** |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)****Model:** AC-02-0250S**Capacity:** Compression 500kN, Tension 350kN | **Measurement/Sample specifications:** **Stroke(mm):** ±75mm**Actuator area(mm2):** Compression 25446.9; Tension 15943.58**Rod Thread (Depth) in mm:** M50x2(70) |

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

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| * Scale down model which matches with the Reaction frame and supporting floor.
* The expected failure load is below 100kN
* Any specific support condition required need to fabricated
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**User Charges Rs. (GST Extra)**

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| **S.NO.** | **Type of Analysis / Testing** | **Internal -**  | **External Academic Educational Institutes** | **National R&D Labs** | **Industry** |
| 1 | Axial Compression or Flexure (Cyclic/Monoto nic) | 1000 per Hour | 2000 per Hour | 3000 per Hour | 4000 per Hour |
| 2 | Axial Compression or Flexure(Cyclic/Monoto nic) | 1000 per Hour | 2000 per Hour | 3000 per Hour | 4000 per Hour |
| 3 | Axial Compression or Flexure (Cyclic/Monoto nic) | 1000 per Hour | 2000 per Hour | 3000 per Hour | 4000 per Hour |