**High Frequency Reciprocating Rig**

|  |  |
| --- | --- |
| https://lh7-rt.googleusercontent.com/docsz/AD_4nXc0x-cvLgdXv85PN4ea4yWaHeJ4UysioTZZor9EMMA9StVmKu8IUxjlVgZJFeqoA1dILrfx5bZJtDrkQj89FrcdCS4vmp5f2ZBjMKL6xaSeBO3V9sAmqay1GCjFztrtsUH59uK_5nQEA9Sq4QAbo_b1ual2p3e1K1wPHs0Ce29FZgA-JBZmwm0?key=YXvdoxEXxG2chCso_WZCLA | **Name of the equipment:** High Frequency Reciprocating Rig**Make & Model:**DUCOM & TR-282**I-Stem Registration ID-** 3224915**Category of Instrument**Characterization and Testing Tool**Types of Analysis / Testing**Testing**Application:** Friction and Wear characteristics of Ball Samples |

**Booking Details**

**Contact Details**

|  |  |
| --- | --- |
| **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/24915/High-Frequency-Reciprocating-Test-Rig) | **Booking available for**Internal and External Both**Requisition form for** InternalsExternals |

|  |  |  |
| --- | --- | --- |
| **Faculty In-charge:** Dr.Amit Kumar Singh**Email ID:**amitsingh@nitc.ac.in**Phone number:** +91-8949362395 | **Technical Staff:**Shibin (Senior Technician) shibinr@nitc.ac.in | **Department**MED**Office Email ID**medoffice@nitc.ac.in**Location**Room No. 101 MSED Department Building**Lab Phone No**0495-2286485 |

**Description and Technical Specifications**

|  |  |
| --- | --- |
| **Description of Instrument:** It is an equipment used to find the Coefficient of Friction of lubricants. Here the spherical ball clamped in a holder which is reciprocating to & fro along a cylindrical disc which is fixed at the bottom holder filled with lubricant.**Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)** |  |
|

|  |  |
| --- | --- |
| Top Specimen Ball  | ϕ6mm  |
| Bottom Specimen Plate | ϕ10 x 3mm  |
| Frequency Range  | 10-60Hz  |
| Load  | 1 to 10N  |

 |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 100/- per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 500 + 18%GST per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 500 + 18%GST per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 1000 + 18%GST per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) |