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| **MOISTURE INDUCED SENSITIVITY TEST**

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|  | **Name of the equipment:** Moisture Induced Sensitivity Test(MIST)**Make & Model:**Make: Instrotek, MIST**I-Stem Registration ID-** **……………………..** **Category of Instrument**Characterization and Testing**Types of Analysis / Testing**Proper testing of bituminous mixes for moisture susceptibility**Application:** Highway EngineersBitumen ManufacturersRoad Construction Companies**Description of Instrument**The MIST evaluates asphalt's resistance to moisture damage by simulating tire pressure and water action, crucial for durable pavement design. |

**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**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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| **Faculty In-charge:** Dr. M. Sivakumar **Email ID:**sivakumarm@nitc.ac.in**Phone number:** 04952286232 | **Technical staffs:**Chandni P R chandnipr@nitc.ac.inAjin Das C Kajindasck@nitc.ac.in Abhiraj A Rabhirajar@nitc.ac.in  | **Department**CED**Office Email ID**cedoffice@nitc.ac.in**Location**Pavement Engineering Laboratory**Lab Phone No**0495-2286243 |

**Features, Working Principle and Specifications**

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| **Features of the equipment*** Simulation of Moisture Damage:
* Pressurized Water System
* Temperature Control:
* Variable Pressure:
* Evaluation of Moisture Susceptibility:
 | **Unique features/Measurement capabilities, if any*** Simulates tire-water interaction.
* Offers precise pressure/temp control.
* Quantifies moisture damage.
* Accelerates testing.
 |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)*** Temperature Accuracy - ±1 ˚C/±1.8˚F
* Max Temperature - 60 ˚C/140 ˚F
* Pressure Accuracy - 7 kPa/±1 psi
* Maximum Apparent Pressure-

345kPa/50 psi | **Measurement/Sample specifications:** * Sample Height - 25 mm to 150 mm/1” to 6”
* Sample Diameter- 100 mm to 150 mm/4” to 6”
 |

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

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| * Sample Type: Marshall samples
* Maximum No. of Samples Accepted at a Time-3
* Minimum No of Days Required for Analysis – 2 days
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**User Charges Rs. (GST Extra)**

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| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 1500/- per test | 2000/- per test | 2500/- per test | 4500/- per test |

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