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| **MOISTURE INDUCED SENSITIVITY TEST**   |  |  | | --- | --- | |  | **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 Engineers  Bitumen Manufacturers  Road 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**   |  |  | | --- | --- | | **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) |  |  |  |  | | --- | --- | --- | | **Faculty In-charge:**  Dr. M. Sivakumar  **Email ID:**  [sivakumarm@nitc.ac.in](mailto:sivakumarm@nitc.ac.in)  **Phone number:**  04952286232 | **Technical staffs:**  Chandni P R  [chandnipr@nitc.ac.in](mailto:chandnipr@nitc.ac.in)  Ajin Das C K  [ajindasck@nitc.ac.in](mailto:ajindasck@nitc.ac.in)  Abhiraj A R  [abhirajar@nitc.ac.in](mailto:abhirajar@nitc.ac.in) | **Department**  CED  **Office Email ID**  [cedoffice@nitc.ac.in](mailto:sbtoffice@nitc.ac.in)  **Location**  Pavement Engineering Laboratory  **Lab Phone No**  0495-2286243 |   **Features, Working Principle and Specifications**   |  |  | | --- | --- | | **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**   |  | | --- | | * Sample Type: Marshall samples * Maximum No. of Samples Accepted at a Time-3 * Minimum No of Days Required for Analysis – 2 days |   **User Charges Rs. (GST Extra)**   |  |  |  |  | | --- | --- | --- | --- | | **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** | | 1500/- per test | 2000/- per test | 2500/- per test | 4500/- per test | |