**HAMBURG WHEEL TRACKER**

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|  | **Name of the equipment:**  Hamburg Wheel Tracker  **Make & Model:**  BO38AM  **I-Stem Registration ID-**  **3222450**  **Category of Instrument**  Characterization and Testing  **Types of Analysis / Testing**  Rutting Test  **Application:**  It is suitable for testing in various conditions, including wet and dry samples, and meets international standards such as EN, AASHTO, and BS.  **Description of Instrument**  A patented wheel tracking device for testing Hot Mix Asphalt resistance to rutting and moisture sensitivity. |

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| **Booking 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/22450/Wheel-Tracker) | **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 |

**Contact Details**

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**Features, Working Principle and Specifications**

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| **Features of the equipment**   * Simultaneous wet and dry testing * Independent wheel motors * Automatic testing * Real-time monitoring * Touch-screen interface * Data export | **Unique features/Measurement capabilities,**  **if any**   * Innovative wheels roll off Mechanism (patented) * Real-time results plot * Measurement of creep slope, stripping inflection point, and stripping slope * Precise rut depth transducers (25 mm ± 0.1 mm) * Advanced temperature control |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * Wheel load: 705 N * Wheel speed: 20-30 cycles/minute * Temperature control range: from ambient up to 75°±1 °C * Table travel: 230, 260, 280 mm * Power supply: 220V 50-60Hz | **Measurement/Sample specifications:**   * Sample diameter- 150mm * Sample shape- cylindrical * Number of samples for 1 test- 2 samples * Type of sample- Hot mix / Cold mix |

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

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

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| * Sample quantity: One sample per test * Preparation: Ensure the sample is properly filled into the mould and secured before testing * Submission guidelines:   + Fill the mould with the HMA sample, ensuring it is properly compacted.   + Ensure the device is set to the correct test parameters.   + Start the test and monitor the results. * Minimum No. of Days: Required for Analysis: 1 day (test completion) to 3 days (data analysis and report preparation) |

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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 |