**CHANNEL WAVE GAUGE SYSTEM & ACCESSORIES**

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|  | **Name of the equipment:**  Channel Wave Gauge System & Accessories  **Make & Model:**  EMCON  **I-Stem Registration ID-**  …………………..  **Category of Instrument**  Testing  **Types of Analysis / Testing**  Fabrication  **Application:**  Used for generating and analysing wave behaviour in coastal and offshore structure models. Supports wave data acquisition, signal measurement, and model testing.  **Description of Instrument**  A wave generation and signal measurement system with adjustable plunger motion (speed: 0–100 units; angle: 0–10°) and a 10-channel data acquisition system (17 Hz). Integrated for coastal and offshore model studies |

**Booking Details**

**Contact 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/) | **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**

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

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| **Features of the equipment**   * Controlled wave generation system * Adjustable plunger for height and motion * Integrated data acquisition for signal analysis | **Unique features/Measurement capabilities, if any**   * Real-time wave signal measurement * Data collection via 10-channel DAQ (17 Hz) * Plunger motion control with variable speed and angle |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   * **Plunger Motion Control System:** Speed adjustable from 0 to 100 units; angle adjustable between 0 to 10 degrees. * **Data Acquisition System:** 10 channels with a measurement capability of 17 Hz. | **Measurement/Sample specifications:**   * Sample Type: Scaled models for coastal studies * Preparation: Stable, well-constructed models * Requirements: Pre-defined instrumentation setup |

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| * **Sample Type:** Designed to measure signals; experimental setup should be planned based on specific needs. * **Pre-preparation:** Not specified; depends on the experimental design. * **User Instructions:** Users must plan their experiments to utilize the system's capabilities effectively. |

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

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| **Sl no** | Type of Analysis / Testing | **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 1 | It is to measure the signals, so has to be planned based on the need | 2000/day | Rs 1500/hr | Rs 2000/hr | Rs 5000/hr |