**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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| **Faculty In-charge:** Dr Anand K.V**Email ID:**kvanand@nitc.ac.in**Phone number:** +91-9940084140 | **Technical Staff:** Sharafudheen CT (TA) Sharafudheenct@nitc.ac.in9847696031 | **Department**CED**Office Email ID**cedoffice@nitc.ac.in**Location**Offshore lab, Department of Civil Engineering**Lab Phone No**0495-2286246 |

**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
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| **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.
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**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 |