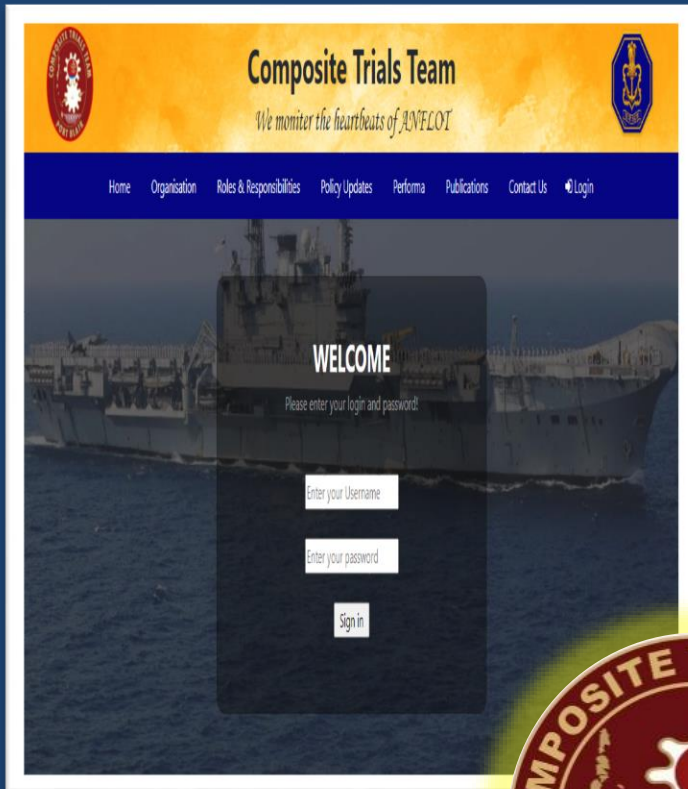


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**2024 EDITION II**

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## MODERN TECHNOLOGY

### MOTION AMPLIFICATION TOOL

Motion amplification tool uses digital video and image processing techniques to measure vibration and movement pixel by pixel, extracting and scaling up data to produce a visual representation of movement.



### PORTABLE EMISSION METER

Exhaust Gas Analyser is a device used to measure the content of various gases present in exhaust post combustion. The analysis is done at real time and is critical towards determining the engine efficiency.

### DIGITAL TORQUE WRENCH

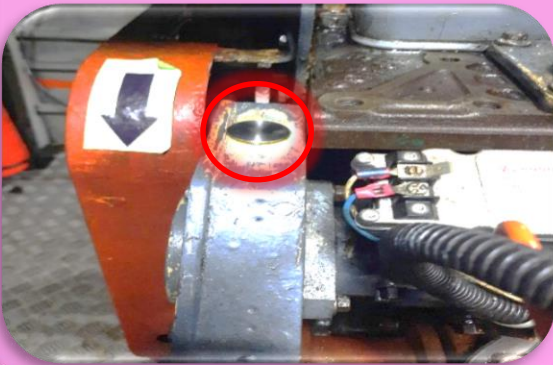
Digital torque wrench is equipped with a digital screen, which displays torque reading in real time. This screen displays the torque value down to the decimal points. It is easy to use, provide accurate readings & can be set to specific torque values and have built-in memory thereby ensuring excellent precision & accuracy.





**INSTALLATION OF VIBRATION PAD**

Vibration mounting pads can reduce inaccuracy occurring due to improper positioning of sensor and proper connection between the sensor and non-ferrous body part of the equipment. As a pilot project, the unit has procured adhesive based vibrations pads under delegated financial powers and installed on-board INS Cheriyaam & INS Cora Divh



**MASTER NAGMAN CALIBRATOR FOR NAGMAN EQUIPMENT**

Towards IN-SITU calibration of NAGMAN calibrators of ANFLOT ships the unit has procured Master Nagman calibrator. To facilitate calibration of equipment throughout the year as per ship's availability. Timely calibration of Nagman calibration equipment enhances the accuracy of the trial, increases reliability, performance and life of equipment fitted on-board.



**ULTRASONIC IMAGER**

Ultrasonic Imager (ULD) provides imaging facility in a broad frequency range up to 100KHz (both audible and ultrasound). It enables to locate the minor leakages from compressed air system pipelines and other system components which has been a recurring issue observed during operation and maintenance onboard.



**LASER PULLEY ALIGNMENT TOOL**

Misalignment is the root cause of belt driven machinery. Towards obviating the issue, the unit has procured Laser Pulley Alignment Tool. The equipment consists of two components - laser emitter & receiver which is attached to the pulley wheel using powerful magnets. It can be used to check vertical angularity (twist), horizontal angularity and axial offset.





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## KALEDIOSCOPE OF ACTIVITIES



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