



DSRI

DESIGN · TEST · MEASURE

DEFENCE SYSTEMS RESEARCH INSTITUTE



Accredited by ISO / IEC 17025 : 2017 (NABL)

Driving Excellence in Designing and Testing



SECTORS WE SERVE



Aerospace



Marine



Defence



Railways



Energy



Pharmaceutical

OUR SERVICES

DYNAMIC TESTS

- Motion Simulator (or) Ship Motion Test
- Acceleration Test (1g-100g)
- Bump Test (3g-60g)
- Sine & Random Vibration Test
- Shock Test (upto 30,000g)
- Tilt / Inclination Test (0°-45°)

CLIMATIC TESTS

- Low Temperature Test (upto -70°C)
- High Temperature Test (upto +180°C)
- Humidity Test (upto 98% RH)
- Thermal Cycling (15°C/min)
- Dust Test (IP 5X, IP 6X)
- Water Test (IP X1, X2, X5, X6, X7, X8)
- Mould Growth
- Salt Spray
- Damp Heat Test
- Thermal Shock
- Tropical Exposure
- Drip Test
- Driving Rain

FLUID FLOW TESTS

- Burst Test
- Dismantling & Reassembly Test
- Pneumatic & Hydraulic Test
- Flow Coefficient Test
- Life Cycle Test
- Air Borne Noise (ABN)
- Structure Borne Noise (SBN)
- Pipe Wracking Test

DYNAMIC TESTS

Sine, Random & Sine-on-Random Test

- JSS 55555 (Test No. 28)
- MIL-STD-810 (G / F / H)
- JSS 0256-01 (Test No. 15)
- IEC 60517, JEC 61373
- IS 2175, IS 9001 (Part XIII)
- IS 9000 (Part I) QM-333
- MIL-STD-167-1A

Shock Test

- JSS 55555 (Test No. 24)
- MIL-STD-810 (H / F / G)
- JSS 0256-01 (Test No. 18)
- JSG0102 (Test 14P&15P a,b,c)
- NSS I / NSS II
- IN Shock Grade A
- IEC 60068-2-27
- ISO 9000 (Part 7)
- ISO 16750-4
- JSS 50101

Acceleration Test

- JSS 55555 (Test No. 1)
- MIL-STD-810 (H / F)
- JSS 0256-01 (Test No. 16)
- JSG0102:1984 (Test 22. U)

Ship Motion

- NES 1004
- DOD STD 1399

Bump Test

- JSS 55555 (Test.No. 5)
- IS: 10236 (Part 10)
- IEC 60255-21-2
- JSS 50101
- JSS 0256-01 (Test.No. 23)

CLIMATIC TESTS

Low Temperature

- JSS 55555 (Test No. 20)
- MIL-STD-810 (F / H / G)
- JSS 0256-01 (Test No. 2)
- IS: 9000 Part II Section 1 to 4
- TEC 60068-2-1, QM 333
- IE 60571

Thermal Shock

- JSS 55555 (Test No. 22)
- IEC 60068-2-14
- JSS 0256-01 (Test No. 5)
- MIL-STD-810 (H / G / F)
- IS: 9000(Part XIV/Sec 1&3)

Air Borne Noise (ABN)

- MIL-STD-1474D/E
- ISO 3744, 3745, 2923 IS 13161 (Part.3)
- IMO Res.A468 (XII)

Structure Borne Noise (SBN)

- MIL STD-740-2, ISO 10816

Humidity Test

- MIL-STD-810 (F / H / G)
- IEC 60068-2-38
- IS 9000 (Part. 6)

Damp Heat Test

- JSS 55555 (Test No. 10)
- IS: 9000 (Part. No: IV)
- IS: 9000 (Part. No: V)
- IEC 60068-2-30, IEC 60068-2-78
- IEC 60571, QM 333
- IS: 9000 Part-1

Tropical Exposure

- JSS 55555 (Test No. 27)
- JSS 0256-01 (Test No. 04)
- QM 333 (Test No. 03)

Salt Spray Test

- JSS 55555 (Test No. 09)
- JSS 0256-01 (Test No. 12)

Driving Rain Test

- JSS 55555 (Test No. 12)
- QM333 (Test No. 14)
- IEC / IS 60529

High Temperature

- JSS 55555 (Test No. 17)
- JSG0102 (Temp: T 1U)
- JSS 0256-01 (Test No. 1)
- MIL-STD-810 (H / G / F)
- IEC 60571, IEC 60068-2-2
- IEC 60068-2-11, QM 333 (Test No. 2)

Mould Growth/Fungus Growth

- JSS 55555 (Test No. 21)
- MIL-STD-810H
- IS: 9000 Part X
- JSS 0256-01 (Test No. 13)

Dust Test (IP 5X) (IP 6X)

- JSS 55555 (Test No. 14)
- IEC 60529

FLUID FLOW TESTS

Fluid Flow Co-efficient Test

- ANSI/ISA-75.02.01
- NES 375

Hydraulic Test

- NES-375, BS 4368
- ASME F1 387 EDITION
- BSEN 12266-1, 2

Burst, Dismantling & Re-assembly

- BS 4368, IS 10103
- ASME F1 387 EDITION

Life Cycle Test

- NES-375, DME SPEC 463
- ANSI-AWWA-C504

Pneumatic Test

- ASME F1 387 EDITION
- BS 4368, NES-375
- BSEN 12266-1. 2

Drip Test

- JSS 55555 (Test No. 11)