

NDT & CONDITION ASSESSMENT OF STRUCTURES



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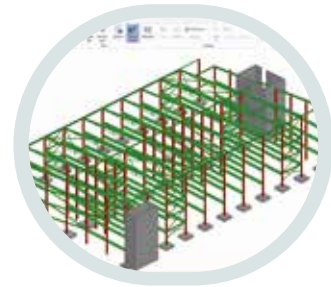
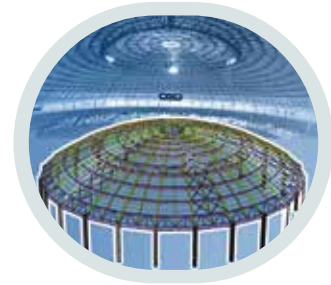
Introduction

IRCLASS Systems & Solutions Pvt Ltd. (ISSPL), promoted by Indian Register of Shipping, an International Ship Classification Society, is a leading Inspection Services provider since 1980 to various market sectors like Oil & Gas, Ports, Power, Process, Engineering, Infrastructure, Buildings (Public & Industrial), Railways, Defense etc. ISSPL is recognized for its technical competency and experience for more than 40 years.

ISSPL - Industrial Services helps clients with its comprehensive range of services towards Quality, Reliability & Safety during whole life cycle of the asset (CAPEX & OPEX) from Planning, Designing, Procurement, Manufacturing, Construction, Testing, Commissioning and Operation.

SERVICES

- **Assessment of Quality of in situ Concrete**
- **Assessment of Structural Soundness**
- **Assessment of Structures for Change of Use**
- **Investigation of Distressed Structures due to Fire, Corrosion, Overload, Aging etc.**
- **Design Review & Preparation of as built Drawings**
- **Preparation of Retrofitting Schemes**
- **Supervision of Retrofitting Works**
- **Final Assessment of Fit for Service (FFS)**



Non Destructive & Semi Destructive Testing

CONVENTIONAL

- Ultrasonic Pulse Velocity Test
- Rebound Hammer Test
- Carbonation Depth Measurement Test
- Half-cell Potential Test
- Cover Meter Test
- Core Extraction & Compression Test
- Chemical Survey (pH, Chloride, Sulphate)



ADVANCED

- Sulphate & Chloride Profile Test
- Capo Test
- Crack Gauge/Crack Depth Test
- Reinforcement Scanning by GPR Live Pro
- Reinforcement Corrosion Mapping
- Concrete Resistivity
- Corrosion Rate of Reinforcement
- Full Scale Load Test

MECHANICAL NDT

- Ultrasonic Thickness Measurement
- Magnetic Particle Inspection
- Ultrasonic Testing
- Liquid Penetrant Testing
- Hardness Test

LABORATORY TEST (NABL)

- All Mechanical & Chemical Testing for construction materials



Competency in various structures

- Buildings - Residential, Commercial & Industrial
- Power - Nuclear, Thermal, Hydro, Wind & Solar
- Bridges - Concrete & Steel Structures
- Airport - Terminal Buildings & Hangers
- Railway - Stations, Bridges, FOB & Tunnels
- Water & Wastewater - ESR, GSR, STP & WTP
- Marine Structures - Ports, Docks, Jetties, Aqueducts & Dams
- Special Structures - Chimneys, Silos & Monuments



Our Strength

- Competent resources with 450+ Engineers
- Global presence with 26 offices in India and 25 Overseas offices
- Expert Team of Senior Engineers in different segments of construction
- State of the Art testing equipment for better performance & reliability
- Latest softwares for Design Review and Stability Analysis
- Library with up to date codes, Standards and Specifications
- In-house R & D Team at HO, Mumbai
- Periodical Training to Engineers for latest updates

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