

IRCLASS SYSTEMS & SOLUTIONS INDUSTRIAL SERVICES





INTEGRITY, RELIABILITY AND SAFETY



CERTIFIED BY
BRITISH STANDARD INSTITUTE
HOLDS CERTIFICATE NO: FS553999



IRCLASS PROFILE AND VALUES

IRCLASS is a brand associated with Classification, Third Party Inspection & Quality Management System Certification for four decades. The parent company, Indian Register of Shipping, established in 1975, is a globally recognized Classification Agency and a full time member of International Association of Classification Societies (IACS).

Indian Register of Shipping is recognized for its technical competency and experience in the Maritime sector. This expertise along with an excellent Safety record has enabled it to diversify into Third Party Inspection and Certification services under IRCLASS Systems and Solutions. (a wholly owned subsidiary of Indian Register of Shipping).

Brand IRCLASS integrates the Classification, Third Party Inspection and Quality Management System Certification services provided to Maritime and Industrial Sectors.

At IRCLASS, we help our clients to find ways to complexities associated with Design, Construction, Project Management, Operations and Failure Analysis.

Our Quality Management systems are certified to ISO 9001 : 2008 by BSI and accredited to ISO: 17020 :2012, as a Type "A" inspection body



SERVICES

- Project Management Consultancy
- Third Party Inspection and Certification
- Proactive and Cost effective Expediting
- Third Party Technical Quality Audits
- Independent Engineer
- Design Evaluation
- Fire and Safety Audits
- Hazop study and Risk Assessment
- Condition Assessment
- Time and Motion Study
- Technical Investigation and Advisory Services
- Trainings- Fire and Life Safety



SECTORS

OIL AND GAS

- Upstream
- Downstream
- Midstream

INFRASTRUCTURE

- Roads
- Bridges
- Buildings
- Airports
- Sports Complex
- Water Supply Schemes

POWER

- Thermal
- Nuclear
- Solar
- Wind

PORTS

- Material Handling Equipments
- Marine Structures



OIL AND GAS



The high level of risks associated with the Oil and Gas exploration, processing, storage and distribution demands the use of best inspection and testing practices.

With a proven track record of Inspection and Certification of more than 20 platforms and 1000 km of pipelines, our expert team helps the stake holders to mitigate the risks involved in the Design, Manufacturing, Operations and Maintenance phase during the lifecycle of the project.

Along with Third Party Inspection Services, IRCLASS has inhouse capabilities for Structural and Dynamic analysis of Offshore Structures as well as Hazard and Risk analysis.

The Inspection and Certification Services are provided to :

OFFSHORE

- Construction of Process, Well head Platforms
- Revamping of platforms
- Recertification of platforms
- Jack up rigs
- Submarine pipelines and subsea cable laying
- Single Point Mooring systems (SPM)

ONSHORE

- Cross Country Pipelines
- Natural Gas pipelines
- Group Gathering Stations
- Line pipes during manufacturing and coating
- Static and rotating equipment

Considering safety as an important aspect, we also provide services for Fire Safety Audits, Scaffolding inspection and Safety Supervision during Erection and Commissioning.

REFINERY AND PETROCHEMICALS



IRCLASS provides Inspection and Certification services at various stages from storage to distribution of Oil & Gas projects.

IRCLASS has the expertise in inspection of materials ranging from Carbon Steel to Austenitic stainless steel, Cladded steel and low alloy steels.

Our experience in International codes like ASME, API, DIN, TEMA etc. ensures that the equipments supplied fully comply with the design requirements and Code of Construction.

The Services provided and various equipment inspected include:

- Storage Tanks, Horton spheres and Mounded storage vessels
- Pressure vessels, Heat Exchangers and Columns
- Inspection services during shutdown of refineries
- Statutory Inspection of Pressure vessels, Safety valves
- Safety & Integrity assessment of pipelines
- Inspection and Certification of tank as per API 653

We are approved as Competent Inspectors under SMPV (U) Rules 12,18,19 & Petroleum rules 126 & 130 of Petroleum Rules 2002 by Petroleum Explosives and Safety Organisation (previously CCOE)





INFRASTRUCTURE



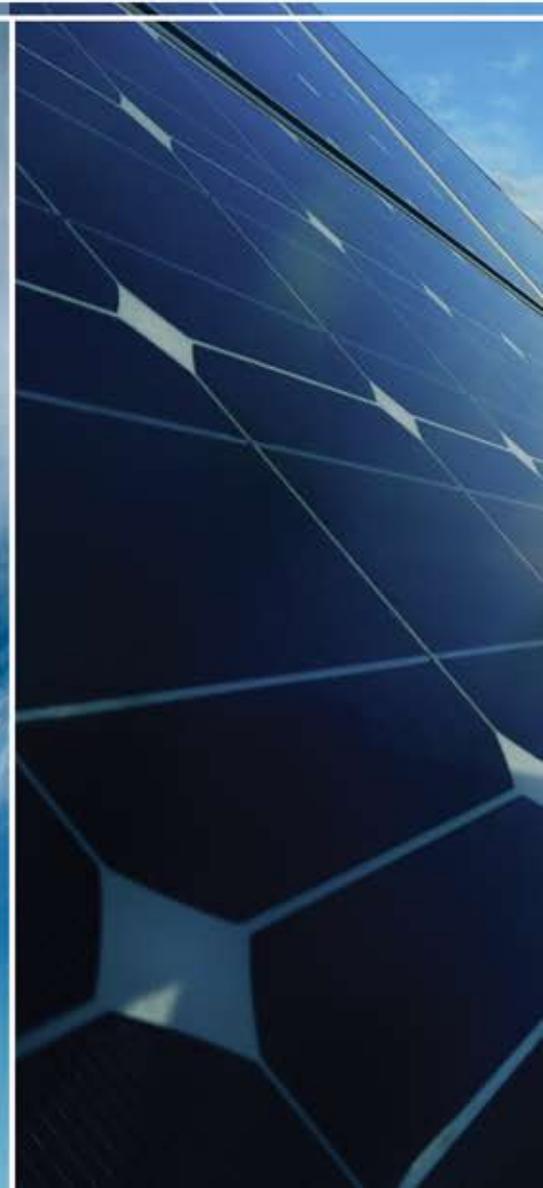
Infrastructure is the back bone of country's economic development.

Owing to the high cost and complexity, there is a need to monitor the quality of work on a regular basis. Emphasising on this aspect, IRCLASS ventured into Inspection and Certification of Infrastructure Projects.

IRCLASS provides Design verification, Project Management Consultancy, Field Quality Assurance and Technical Audit services for Construction of:

- Roads and Highways (Flexible and Rigid)
- Bridges- RCC, Steel and Composite structures
- Buildings (High rise, Township, Green Building)
- Airports
- Sports Complex
- Marine Structures (Jetties, Pontoon structures)
- Cargo Warehouses
- Lift Irrigation Schemes (Dams, Cannals, Tunnels)

POWER



IRCLASS provides services in areas of Generation, Transmission and Distribution of Power.

Our Service areas cover both, conventional and renewable sources of Power Generation

IRCLASS has extensive experience in inspection of Thermal, Nuclear as well as Wind and Solar Power projects.

The Third Party Inspection Services provided include :

- BTG & Balance of Plant (BOP) Equipment
- Field Quality Assurance Services during Construction
- Wind mill towers and foundations, gear boxes and nacelles
- Electrical and Mechanical equipment for Solar(PV and CSP) projects
- Primary piping, field instrumentation package for Nuclear power plants

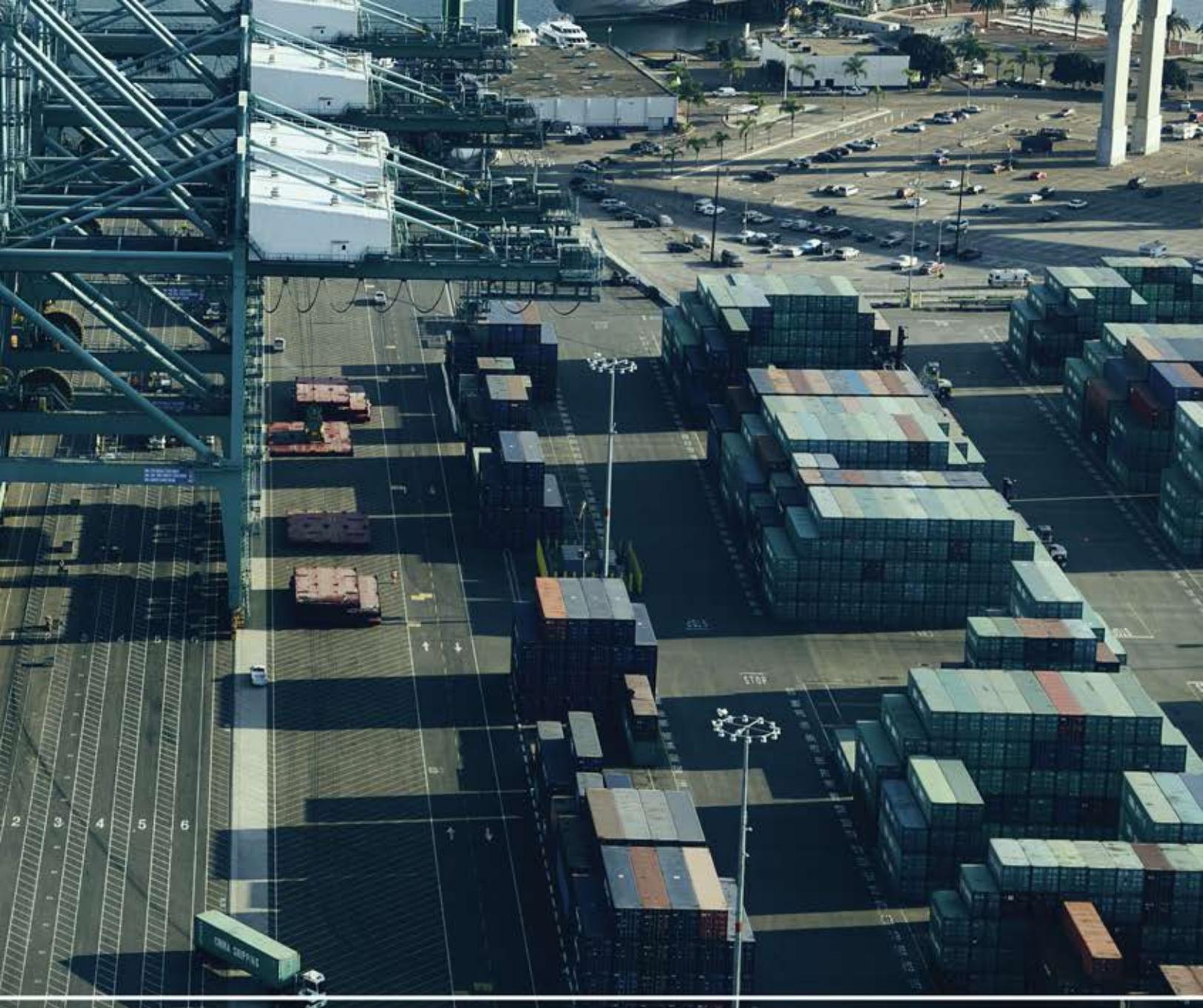
For equipment related to Transmission and Distribution, Inspection services are provided for:

- HV & EHV Transformers, Motors and Cables
- Electrical Panels and Switch Boards
- Insulators and Capacitors
- Transmission towers
- All other components required for sub stations and switch yards





PORTS AND MATERIAL HANDLING



With a view to provide value added services to the Port Sector, IRCLASS is providing Inspection and Certification services for all types of Material Handling Equipment, Fire fighting systems apart from the inspection of Dock Gates, Lock Gates.

The services provided include:

- Design verification and Certification of Marine structures and Material handling equipment
- Inspection during fabrication, installation and commissioning
- Inspection of lock gates
- Condition assessment of Jetty structure and Cranes
- Safety Audits and HAZOP studies
- Project Management Consultancy for construction or extension of berths

The equipment covered are:

- ELL, EOT, Goliath and Rail Mounted Quay cranes
- Ship Loaders & Unloaders
- Conveyor System
- Wagon Tipplers
- Marine Loading & Unloading Arms
- Stacker Reclaimers
- Bagging Machines



VALUE ADDED SERVICES

Apart from Third Party Inspection and Certification, IRCLASS also provides specialized services to the Industrial Sector, with a view to offer end to end solutions under one roof.

•TECHNICAL INVESTIGATION AND ADVISORY SERVICES

Through our highly competitive and professional team of Engineers backed with practical experience, we analyse, identify the root cause and suggest corrective, preventive action to avoid recurrence of failure and increase life cycle of the product.

IRS uses advanced softwares like SACS, ANSYS, NASTRAN, IDEAS and in house developed programs for design analysis and simulation purpose.

•VENDOR EVALUATION AND ASSESSMENT

Selecting a competent vendor is the key to achieve desired quality of any product. Recognising this as a basic need, IRCLASS provides Vendor Evaluation and Assessment Services to all Industrial Sectors.

These services can be customized after interaction with the owner, understanding the end use of the product and taking into consideration the Technical Specifications. A checklist and marking scheme is devised based on the above parameters. Results are reported to the client along with recommendations regarding capability of vendor.

Such assessment is done by our Engineers based on practical experience and technical know-how of the product

•SAFETY / ENERGY AUDITS, HAZOP STUDIES AND RISK ANALYSIS

IRCLASS recognizes the importance of Risk Assessment and Mitigation requirements in day to day operations in potentially hazardous sectors like Petroleum, Oil & Gas and Process industry

Any industry focusing on above products needs to identify the potential hazards and operability problems caused by “deviations from design intent” to prioritize control measures for managing risks.

Also, a periodic Safety audit allows a systematic review of organization's Safety Management System to take suitable preventive measures to reduce level of risk.

IRCLASS has developed a portfolio of services to cater above requirements. The Services of Engineers drawn from field of competence related to the particular are involved as auditors to render these services.

A dedicated team of Engineers has been developed in house to deal with the cases pertaining to Risk Analysis and HAZOP studies.



RECOGNITIONS

INTERNATIONAL

- Full time Membership of International Association of Classification Societies
- Certificate of Membership from Lifting Equipment Engineers Association (LEEAA), UK
- Lanka IOC Ltd.
- Kuwait Oil Corporation

NATIONAL

- Quality Council of India empanels as Inspection Body for Infrastructure Projects.
- Authorized by Petroleum and Explosives Safety Organisation as a “COMPETENT INSPECTOR” under PETROLEUM RULES (126 & 130)-2002.
- Authorized by Petroleum and Explosives Safety Organisation as a “COMPETENT INSPECTOR” under SMPV (U) RULES (12, 18)-1981.
- Ministry of Road Transport and Highways as National Project Monitors
- Ministry of Rural Development as Independent Engineer



A THIRD PARTY INSPECTION / CERTIFICATION AGENCY WITH:

- ONGC Onshore and Offshore Engineering Services
- Bongaigaon Refinery and Petrochemicals
- IOCL- Panipat Refinery Division.
- HPCL Pipelines Division, Mumbai and Vizag Refineries
- Gujarat State Petronet Ltd.
- Hindustan Organic Chemicals Ltd.
- Bharat Petroleum Corp. Ltd. - Mumbai and Kochi Refineries
- OIL India Ltd.
- Mumbai Metropolitan Region Development Authority (MMRDA).
- Mumbai Corporation of Greater Mumbai (MCGM).
- City and Industrial Development Corporation of Maharashtra Ltd (CIDCO)
- Ahmedabad Municipal Corporation
- Bhopal Nagar Nigam.
- Kalyan Dombivli Municipal Corporation
- Thane Municipal Corporation
- UP Rajkiya Nirman Nigam Limited
- Delhi Development Authority
- Bhubaneshwar Development Authority
- Govt. of Odisha- Mega Lift Projects
- RUIFD Corp. Ltd for BSUP/IHDSP under JNNRUM Scheme

GLOBAL PRESENCE

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NATIONAL PRESENCE

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