

**TUVINDIA**

Inspired by Knowledge

# TUV India - Industrial Services



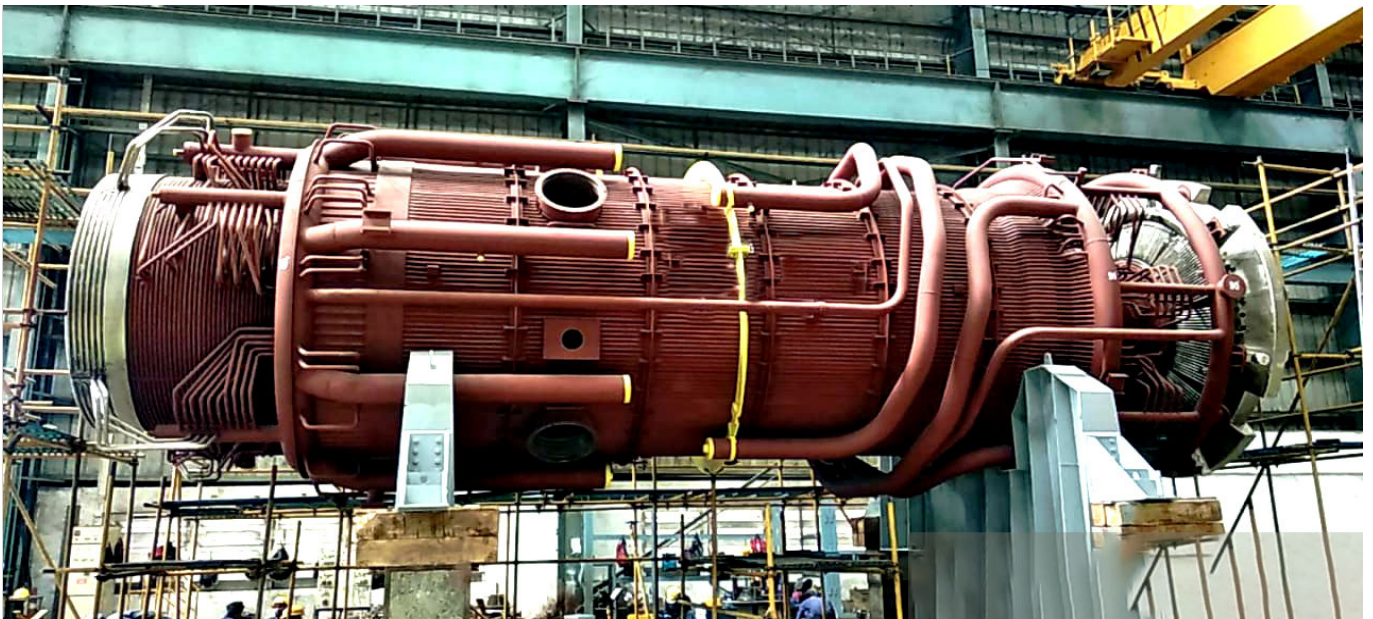
TUV®

TUVNORDGROUP

# Industrial Services

TUV India's Industrial Services is a truly global provider of technical inspection, verification, testing, conformity assessment and certification for industrial markets. The core values of complete independence, providing round the clock dedicated quality solutions to enable clients to reduce their risk and increase reliability, transparency and integrity guide us in our mission to deliver unparalleled services at a uniform high quality level to customers around the world.

Our team of engineers ensures that the quality and performance of products and installations meet applicable requirements, whether these are regulatory, voluntary or client specific.



We help manufacturers and buyers to improve the integrity, quality, safety and efficiency of equipment through wide range of inspections / services like:

- Third Party Inspection
- Supplier Assessment
- Shop Inspection / Sourcing Inspection
- Asset Integrity
- Digitization
- Validation Service
- Remote Inspection
- Cyber Security Assessment
- In-Process Inspection
- Welding Procedures / Welder Approvals as per ASME, AWS, EN, ISO
- Witnessing and certification of Calibration of Tensile / Impact testing Machines and Heat treatment Furnaces
- Site Inspection
- Statutory & Voluntary Inspection
- Pre-Shipment Inspection, Evaluation of Second Hand Plant & Machinery
- Material Testing & NDT
- Product Certification
- Onshore and Offshore Inspection Services
- Risk and Safety - HAZOP, QRA, etc



The inspection engineers at TÜV India are technically competent to meet client expectations. Our engineers have hands-on experience in manufacturing, site construction, NDT, electronics and other domains. As a result, they are well aware of the engineering problems / bottlenecks and can significantly contribute in achieving the desired quality in project procurement and construction.

We also offer the same quality of inspection services across 100 countries worldwide through our network of TÜV NORD GROUP international companies / associates across a wide range of sectors.

## Services by Sector

- Oil & Gas : Refinery, E&P, Gas Distribution
- Power: Conventional, Nuclear, Renewable, Hydel
- Petrochemicals, Fertilizers, Chemicals, Pharma and Cosmetics
- Metal Industry (Steel, Copper, Aluminum, Zinc)
- Water, Gas, Waste treatment, Textile, Glass, Cement
- Manufacturing Industry
- Defence & Aerospace
- Infrastructure - Building ,Industrial Plants, Railway, Telecom, Bridges, EV, EV charging, Airports and Ports
- New Sectors - Automation, IOT, Industry 4.0, Additive Manufacturing, Semiconductors, Green Energy, Green Hydrogen, Ammonia, Biogas

## Types of Items, Equipment Inspected

- Process Equipment: Vessels, Heat Exchangers, Columns, Reactors, Boilers
- Materials: Plates, Pipes, Flanges, Forgings, Castings, FRP, Structural, s,
- Electrical Equipment: Motors, Panels, Cables, Transformers, Cable Trays, Junction Boxes
- Instrumentations: Gauges, Meters, Controllers, Safety valves, Communication Systems, DCS
- Machinery: Pumps, Compressors, Fans / Blowers, Rotary Machinery, Conveyors, Gear units, Turbines, Generators
- Piping: Line Pipes, Process Piping, Cross Country Pipelines, Valves, etc.
- Plant and Facilities: Steel & Iron Works, Process Plants, Engineering Industries, Storage Facilities

## **Project Quality, Safety Services**

- Project Quality Management / Construction Quality Assurance (Civil, Mechanical, Electrical)
- Construction Safety
- Owners Engineer: Project Management PQA / CQA, Expediting Services, Procurement Support, Pre-Commissioning Commissioning Assistance

## **Process, Risk And Safety Services**

- Safety Studies – HAZOP, HAZID, QRA, Dispersion, etc.
- Condition / Residual Life Assessment (RLA), FFS
- RBI, RCM
- Asset Integrity Management (AIM)
- Validation Services (Process, FAT, SAT, DQ, IQ, OQ)
- SIL (Safety Integrity Level) Certification
- ATEX Certification

## **Specialized Inspection and Product / System Certification & Support Services**

### **European Approvals**

- CE Marking as per Pressure Equipment Directive (PED 2014/68/EU) to module G, H, A1, etc.
- CE Marking as per Construction Product Regulation (CPR 305/2011)
- Welder & Welding Procedure Qualification as per EN 15614, EN 11970, EN 287, ISO 9606
- NDT Personnel Qualification as per PED/ISO 9712
- Material Manufacturer, Quality System Certification as per PED 2014/68/EU Annex. 1,4.3 & AD 2000 W0
- Welding Quality Requirement Approvals Generic /Railway / Structural - ISO 3834/ EN 150852/ EN 1090
- Pressure Equipment Manufacturer as per PED 2014/68/EU, AD 2000 HPO
- Welding Consumables approval I VdTUV 1153 and CPR Approvals
- NORSOK M-650 and M-630
- CE Marking as per Machinery Directive 2006/42/EC, Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility Directive (EMC) 2014/30/EU

### **Training Services**

Our training programs are designed to meet the current and evolving needs of the industry. Courses are delivered by competent faculty with extensive knowledge and domain expertise like:

- ASME
- CE Marking - PED 2014/68/EU
- Design of Pressure Equipment
- Welding, Materials

## ASME AIA Services

Authorized Inspection & Assistance for preparation towards 'U', 'S', 'N', 'R' Certification mark for new construction and repair / alteration of pressure equipment as per ASME code.



## Design, Verification, Inspection and Certification as per Various Codes

ASME/ EN/ AD2000/ IBR/ TRCU-Russian

### Regulatory Services:

- Authorized Inspection Agency – PESO: SMPV Rules
- NR-13 (Brazilian Compliance Regulation)
- Australia and New Zealand Regulations
- Russian Regulations TRCU 032/010 etc.
- Singapore MOM (Ministry of Manpower)
- Malaysian DOSH (Department of Occupational Safety and Health)

### Indian Boiler Regulation: India and Overseas

- Material, Fitting, Valves Inspection
- Welder Qualification
- Design Appraisal
- Boiler, Steam Vessel / Heat Exchanger Inspection
- Annual Inspections of Operating Boilers
- Residual life assessment of Boiler/ steam system



# Our Expertise

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Our domain experts provide inspection results which help you develop truly excellent solutions to make your business more secure and enhance the quality of your technology, processes, products, services and business decisions.

## Vast Experience

Successfully executed more than 100 large projects in sectors like Refinery, Gas, Power, Petrochemical, Fertilizer, Space, Defense, Nuclear, Chemical, Paint, etc. for major national and international clients, viz. L&T, RIL, IOCL, GE, Essar, Samsung, Godrej, Technip, Toshiba, UHDE, UPL, Aarti, etc. as well as government projects for ISRO, BARC, BEL, ITER, ONGC, NTPC, HPCL, BPCL, NFL, NFC, IFFCO, ECIL etc.



# Responsiveness

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- Single point co-ordination
- 24x7 availability
- Senior managers in each office
- Technical excellence: Support with standards, Design Examination, Root cause analysis, Trainings from own experts and TÜV NORD Germany, as necessary
- Strong internal QA system: QA Head at Corporate and each branch, complaint handling, preventive actions, lessons learnt, quiz, and frequent monitoring of inspectors
- Digitization: Orders, Competence check, Inspection Calls assignment, Inspection Reports and tracking of all stages through single user friendly software system

# About Us

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TUV India Pvt. Ltd. (TÜV NORD GROUP) is a customer-focused, innovative, and independent, technical, quality & safety services organization, dedicated to providing future-proof solutions through technological excellence for the success of its customers with the highest level of integrity. With a presence at over 40 strategic locations in India; a branch office in Sri Lanka and Bangladesh; state-of-the-art laboratories at Pune, Bengaluru, Noida and Jamnagar; 100 important countries worldwide and through digital means, we are always connected to you, our esteemed customer, anywhere, anytime.

We are proud to provide increasing levels of services to the best known, largest global and national companies as well as medium and small industries in diverse sectors like Oil & Gas, Petro-chemical, Nuclear, Renewables, Infrastructure, Food, Power, Manufacturing, Chemicals, Pharma, Paper, Automobiles, Railways, Aerospace, Defence, IT, Health, Hospitality, Retail, etc.

Over 1400 competent and experienced TUV India experts spread across India and over 14000 TÜV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry

Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing – Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Cargo Inspection; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TUV India Training Academy.

## **TUV India Private Limited**

### **Registered & Head Office**

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## Our Services Portfolio

- Industrial Inspection
- Management Systems & IT Certification
- Building, Infrastructure and Project Management
- Renewable Energy
- Railway Technology
- Food Certification and Inspection
- Petroleum, Chemical and Gas Cargo Inspection
- Product Certification
- Product Testing (Electronics, Electricals, Battery and Industrial Machinery Testing)
- Food and Packaging Testing
- Advanced Chemical and Material Testing
- Petroleum, Chemical and Gas Testing
- Training Academy