

SEPC

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Inspection Services



▶ Inspection Activities

- > Third Party Inspection of Coded Pressure Equipment.
- > Inspection of finished and / or stage wise inspection of Forged, Cast, Hot Formed, Cold Formed, Rolled, Drawn, Ferrous and Non-ferrous Sub assemblies.
- > Design, Drawing of Plant Equipment, Piping, Stress Analysis, 2 & 3 -Dimensional Drawing, Isometric Layout.



duly inspected and certified.

Some Common Test Reports Generated while fabricating various equipments.

1. Material Inspection reports
2. Dimension reports. (Dished End Forming, Shell Rolling, Tube Expansion, Tube Sheet Shell course Joining)
- Internal Inspection reports are presented to Clients representative for stage wise sampling of mechanical parameters for conformance and subsequent certification as per approved Quality plan, Drawing, Codes etc.
- Testing for Mechanical compliance is monitored with calibrated instruments and gauges as required for job at hand. Fluids coming in contact with equipment which are likely to cause deteriorated performance are suitably treated before use. and alignment, set ups and weld seam reports etc.)
3. Hydrostatic test reports (Shell, Coil, Jacket, Limpet etc.)
4. Pneumatic test report (Reinforcement pad for nozzle openings, Thin Shell leak detection, to pipe weld etc.)
5. Radiographic Film evaluation reports.
6. Dye Penetrant test reports
7. Ultrasonic and / or Magnetic Particle test reports.
8. Weld Seam Completion reports.
9. Heat treatment reports.
10. Dry run for rotating Parts in assembled condition (Temperature rise, Whirling, Eccentricity, Vibrations, Noise Level, Speed etc.)
11. Wet Run or Full Load Test with Water or Fluid supplied by Client for evaluation.
12. Quantity check reports
13. Reports for Pickling and Passivation.
14. Mechanical Cleaning and Painting.

In our organization structure of the Firm, you will find that, we have total 04 Engineers in combination Engineering Graduate & Engineering Diploma Holders working with us since last 5 Years.

We hope the above information shall speak for itself about the Competency and tendency in gaining experience in different fields of our Organization including the consistency in continuation of the activities in the fields. In confirmation of the above, we are also enclosing herewith a list of few of clients, giving in brief, the activities carried out by us for each client in form of job Profile.

Inspection Procedure :

Followed while carrying out Inspection for Coded / fabrication of Process / Storage Equipment Manufacturers / Laboratory witness.

Untested material received at stores is sampled at independent laboratory for required conformance.

Manpower such as welders and fitters are evaluated for experience in assigned tasks and suitably graded for work locations as per criticality.

Machinery is evaluated for capacity, maintenance, tools, jigs and fixtures.

Procedures developed for testing by destructive and non destructive means are revalidated if outdated and fresh certification obtained if not available.

Process to be followed is broken stage wise into daily and time bound units for achieving targeted output by qualified shop floor supervisors and engineers. Generating relevant and objective reports for required events and also for activities relevant to job at hand monitors manufacturing process.

Witness of Material test coupons as per SA 370 of ASTM at Approved destructive laboratories is ensured for material falling under category of pressure or load bearing material is visually inspected and correlated with the Material Mill Test Certification. If found insufficient due to any reason specified in code or standards or rules of inspection, the material physically tested by drawing out a sample as per standard. Testing is carried out by NABL laboratory.

Cleaning and drying after final testing is ensured.

Passivation, Painting, Final Identification, Packing and Transportation are all pre defined and reports are generated. Spares and loose items are suitably identified and packed with required packing material with spares lists details

List of Inspection Activities

Inspection of Pressure Vessels, Heat Exchangers, Pumps, Compressors etc.

Inspection of Pipes, Plates, Forgings, Tubes, Fasteners, Fittings, Valves, etc.

Inspection of Shot Blasting, Painting & Coating, Solution annealing (SS).

Inspection of Dished Ends, Conical Shell, Cylindrical Shell

Qualification of Welders, Fitters, Grinders, Operators etc.

Calibration witness of Laboratory Testing Equipment

Calibration of Measuring Instruments & Comparators

Witness of Liquid Penetrant Testing, Visual Testing, Magnetic Particle Testing.

Review of Radiographs of Welds, Castings, Forgings etc.

Witness to Ultrasonic Tests, Eddy Current Testing.

Witness to Hydrostatic tests, Pneumatic Tests, Leak tests, etc.

Witness of Non-Destructive Tests at Laboratories.

Witness of Pre & Post weld Heat Treatment of Vessel & its Sub Assemblies.

Production Test Coupon testing of welder/ welding operator, filler metal, flux, parent material and weld joint geometry joint prepared for joining parts of vessels by welding.

Witness to Dished End Normalizing, Stress Relieving, Solution Annealing.

Vetting / Approval of Procedure for— Hydrotest, Pneumatic Test, WPS/ PQR / WPQ, Quality Approval Plan, Heat Treatment Procedure, etc.

Load Calculation check for Load bearing assemblies like, Skirt Supports, Leg Supports, Lug Supports, Gusset Supports, Frames, etc.

Safety Valve Calculation for set pressure, burst test, etc.

Witness to Pressure Relief Valve testing.

About Us:



We introduce ourselves as an organization of well Qualified and Competent Engineers in business 2003, for carrying out various activities relating to Design of Coded Pressure Equipment, Fabrication

and Inspection, Certification and

Erection, testing, commissioning of various modules of Chemical, Petrochemical, Petroleum, Nuclear Power, Pharmaceutical and Power projects. Kindly refer our accomplishments in the following pages.

I] SEPC has been approved by various Government concerns for supply of Equipment and services:

- Nuclear Power Corporation of India Ltd. – TAPPS 3 & 4 – Inspection of Tertiary Cooling System, Inspection of RT, LPT of Secondary Cooling water System Piping.
- Ordnance Factories of India – Supply of Air receivers for Plant Utility.
- Bridge & Roof Company of India Ltd. – Inspection of Electrical Panels, Alarms, Loading Arms,
- Plates, Pipes & other raw material.

II] Supplied our Inspection Services to various eminent companies in the projects all over India

- Schenectady International - Inspection of Entire Equipment procurement such as Agitated
- Reactors, Heat Exchangers, Pressure Vessels, Columns & Condensers, piping.
- SI Group – Stores ABC Analysis and SAP System Implementation.
- Sunshield Chemicals Ltd. – Alkyd Phenol Project – FRT, Reactors, HX, PV, DG.

- Deepak Fertilisers & Petrochemicals Corporation Ltd. – Sulfur Remelter.
 - VVF Ltd. – Vapour Scrubbers
 - Supreme allied Services Ltd. – Air Receivers.
 - Energy Logistics Pvt. Ltd. – Air receivers.
- III] Consulting Services provided to Organisations
- Positive Metering systems Pvt. Ltd. – Technical Systems upgradation
 - Industrial Engineers – ISO Certification Guidance
 - R. S. Samant Engineers Pvt. Ltd. – Business Expansion & Q. A. / Q. C. Guidance.

We are a Proprietorship Consulting Organization consisting of following five Competent

1. **Mr. M. M. Tikle (B.E. Mech.)**
2. **Mr. M. S. Tikle (B. E. Chem.)**
3. **Mr. Anil Choumal (MSc. Dis. Mgmt)**
4. **Mr. H. S. Pawar (B. E. Mech.)**
5. **Mr. Pravin Panchal. (L.M.E. Mech.)**

Design & Engineering Infrastructure

Description

- ASME Code Reference material
- PED 5500
- IS 2825 latest Edition
- SMPV (UF) – 1981 Latest edition + Amendments
- Gas storage Rules
- API 650 / API 653 / API 510 / API 620 / API 600 / API 526 etc.
- ANSI B 16.5 / B16.9 / B 16.11 / 31.3 / 31.4 etc.
- ASTM Material Standards
- IS standards – IS 2062 / IS 2002 / IS 803 / IS 875 etc.
- TEMA Standards for Heat Exchanger Shell & Tube Type construction