

THANKI ENGINEERING SOLUTIONS

Delivering Excellence in NDT

TF – 28, Suner Complex, Harinagar Crossing, Gotri Road, Vadodara - 390 007, tesndt@gmail.com, 9428173351

Introduction :-

Thanki Engineering Solutions owned and managed by Experienced Professionals in the field of world-class NDT products and solutions. We believe in providing the best Products and Reliable Service to the Customers. We provide a range of technology products and value-added services towards economical engineering solutions, catering to most of the industry segments. We build good repro with beloved Customers by providing the best Products, reliable Service and Economical solutions.

We would like to enhance the customer base all over the Country. We committed to maintain a competitive edge, by constantly adding Innovative products to our portfolio and serve the Non Destructive Testing (NDT) Community in the State with the best Engineering Solutions.

Thanki Engineering Solutions – A Single Source to cater Industrial requirements of all Types of NDT (Non Destructive Testing).

1. Ultrasonic Testing & Ultrasonic Thickness Gauging.
2. Advanced UT With Phased Array Ultrasonic Testing (PAUT) & Time of Flight Diffraction (TOFD)
3. Oxide Scale Measurement on Boiler Tubes.
4. Magnetic Particle Testing.
5. Dye Penetrate Testing.
6. Hardness Testing.
7. Visual Testing - Remote Visual Inspection (RVI)
8. Eddy Current Testing & Pulse Eddy Current Testing.
9. Industrial Radiography Testing - Film Interpretation.
10. Positive Material Identification Testing (PMI).
11. Vacuum Box Leak Testing.

We have following Verticals in our feather.

1. **NDT Sales** - We supply All NDT Equipments , Calibration blocks , Accessories & Consumables.
2. **NDT Inspection Services** - We Provide Manpower for NDT onsite with Equipment & Accessories.
3. **Calibration** of all NDT Equipments as per National / International Standards.
4. **Training** - Level I & II , Certification & Renewal in all NDT methods as per SNT TC 1 A.
5. **Consultancy**, E-Guidance & AMC of all activity in eLora as per AERB.
6. **NDT Level III Services** - Recertification , NDE Written Practice as per SNT TC 1 A & Procedure Preparation as per ASME/EN Standards
7. Component Level Repairing & Servicing of NDT Equipments.
8. Customization of NDT Techniques for special jobs i.e. Bond Testing , Oxide Scale ,
9. Skilled Manpower supply for Third Party Inspection , Witness , Projects & Shutdown jobs.
10. Product inspection from Raw Material to Final Stage.

Warm Regards,

Viral Thanki (Proprietor)

URL - www.thankiengineering.com

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WHAT IS NDT?

Nondestructive Testing (NDT) plays an important role in assuring that structural and mechanical components perform their function in a safe, reliable, and cost-effective manner. NDT technicians perform the necessary tests to locate the indicators and discontinuities that may cause failures or shut downs in such systems. These tests are performed in a manner that does not affect the future usefulness of the object or material – hence, the name “nondestructive.” NDT allows for careful and thorough materials evaluation without the need for deconstruction or damage. NDT is typically used at various points in a part’s life cycle. NDT can be used prior to the use of a component for the sake of quality control. NDT is also employed while components are in use to detect service related conditions caused by wear, fatigue, corrosion, stress, or other factors which affect reliability.

NDT Technologies Include:

Visual and Optical Testing (VT) :-

Visual Examination can be an effective way to recognize surface imperfections that could adversely affect a part or component. Visual Examiners use knowledge of how a part is manufactured, the function of the human eye, lighting requirements, and precise measuring tools to evaluate materials. Computer controlled camera systems and optical aids such as borescopes may also be used to recognize and measure features of a component.

Radiography (RT) :-

Radiographic Examination involves using radioactive isotopes (gamma rays) or X-rays on materials to peer qualitatively for indications the same way a doctor looks for fractures or other conditions within the body. Radiation is directed through a part and projected onto film or a digital detection device leaving an image which can be examined by the qualified Radiographer.

Ultrasonic Testing (UT) :-

Ultrasonic Examination uses high-frequency sound waves which are transmitted into a material to detect discontinuities or locate changes in material characteristics. Sound is introduced into the object being examined and reflections from internal imperfections, areas of acoustic impedance, or varying geometrical surfaces are returned to a receiver.

Magnetic Particle Testing (MT) :-

Magnetic Particle Examination is accomplished by inducing a magnetic field into a ferromagnetic material and applying iron particles to the surface of the item being examined. Surface and near-surface discontinuities affect the flow of the magnetic field within the part causing the applied particles to gather at locations of flux leakage, thus producing a visible indication of the irregularity on the surface of the material.

Penetrant Testing (PT) :-

Penetrant Examination is performed with a dye solution. Once applied to the surface, the dye will effectively penetrate any surface-breaking cavity. Excess solution is removed from the object. A developer is then applied to draw out any penetrant that remains unseen. With fluorescent dyes, ultraviolet light is used to make the “bleed-out” fluoresce brightly, allowing imperfections to be readily seen. With visible dyes, a color contrast between the penetrant and developer makes the “bleed-out” easy to see.

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TES Calibration Services

➤ Calibraiton :-

Thanki Engineering Solutions is one of the most reputed and advanced calibration laboratory of Gujarat, catering calibration services of different NDT Equipments , Calibration blocks and Accessories as per the ASTM / ASME / ISO Standard with National / International traceability in its modern and very well equipped calibration laboratory. We perform Calibration in our laboratory as well as at customers end (onsite).

We are committed to provide quality calibration within minimum possible time & at competitive rate to our esteemed customers. To provide calibration service to all our customers in best ways we are continuously enhancing and upgrading our facilities as per customer needs , We have team of highly qualified, trained & experienced professionals working with us. We assume best service in this field of calibration.

| SN | ITEM |
|----|--|
| 1 | Digital Ultrasonic Flaw Detector |
| 2 | Analogue Ultrasonic Flaw Detector |
| 3 | Advanced Phased Array Ultrasonic Testing |
| 4 | Digital Ultrasonic Thickness Gauge (D Meter) |
| 5 | Coating Thickness Gauge (DFT Meter) |
| 6 | Ultrasonic Testing Blocks - V1 , V2 , DAC Block , DGS Block , Step Block , Nonstandard Block |
| 7 | Magnetic Particle Testing Yoke Type Equipment (AC / HWDC). |
| 8 | MPI Prod Type Equipment (AC / HWDC / FWDC) - up to 5000Amp(AC) and 10,000Amp (DC) |
| 9 | MPI Bench Type Equipment (AC / HWDC / FWDC) - up to 5000Amp(AC) and 10,000Amp (DC) |
| 10 | Pie Field Indicator |
| 11 | Residual Field Indicator - Gauss meter (Analogue / Digital) up to 20,000 Gauss |
| 12 | Magnetic Particle Testing Block Type ATP , BTP , Weight Lifting Kit |
| 13 | Light Meter - UV Intensity meter & Lux meter |
| 14 | UV Black Light & UV LED Torch |
| 15 | Welding Machine - up to 5000Amp(AC) and 10,000Amp (DC) |
| 16 | Portable Hardness Tester |
| 17 | Hardness Testing Block |
| 18 | Area Zone Monitor With Radiation Sensor - Calibration from AERB Approved Calibration lab. |
| 19 | Radiation Survey meter - Calibration from AERB Approved Calibration lab. |
| 20 | Pocket Dosimeter- Calibration from AERB Approved Calibration lab. |
| 21 | Film Viewer |
| 22 | Densitometer |
| 23 | Surface Roughness Tester |
| 24 | Eddy Current Machine |
| 25 | Measuring Instruments like Vernier Caliper , Micrometer , Measuring Tape , Bevel Protector , Termometer , Hygrometer , Measuring Scale , Weighing Balance. |