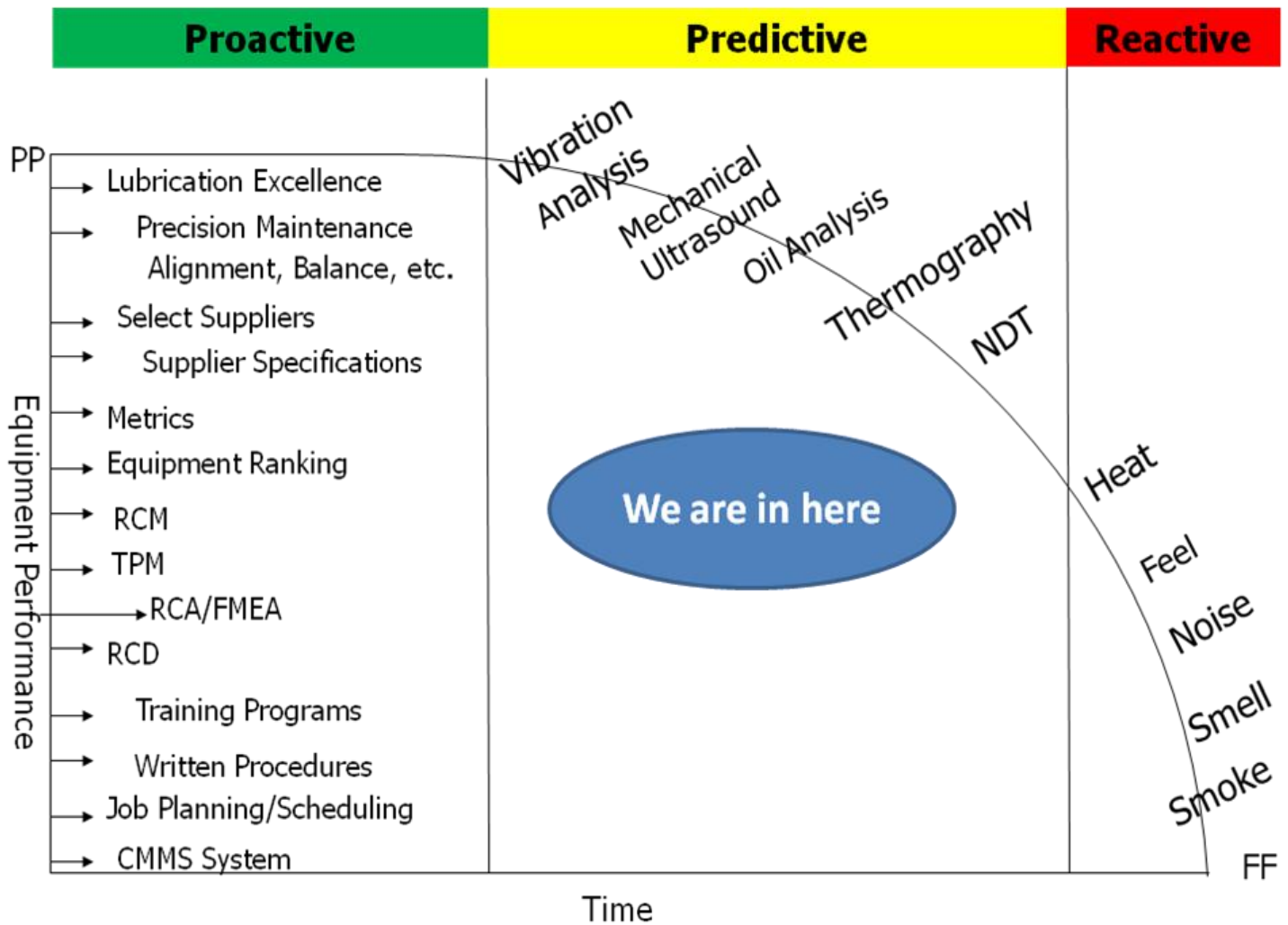


Q&T Industrial Inspection Company is an ISO 9001:2015 Certified Company. Established in 2019, Which was formerly **SAJ Industrial & Inspection Company**. We started our journey in 2007 to provide the **Non-Destructive Testing (NDT)** and **Condition Monitoring (CM)** solution in Bangladesh industrial Market. Since then we are providing the NDT and CM solution in different types of industries like power generation, fertilizer, chemical, oil & gas, aviation, shipbuilding, gas production and distribution, cement, welding, paper, sugar, pharmaceuticals, research and educational institutions, Garments & Textile, Boiler Industries, Pre-Engineering Steel Building Structure.

Non-Destructive Testing and Condition Monitoring technology is the major component of Predictive Maintenance (PdM). Till now we have completed 500+ inspection projects in Bangladesh.



Machine Condition Chart

Industrial Services:

We have the full range of Non Destructive Testing (NDT) and Condition Monitoring (CM) services. We are using world latest and renowned manufacturer's technology for our services.

Our Industrial Services are:

1. Non-Destructive Testing (NDT) Services.
2. Condition Monitoring Services.
3. Electrical Safety Inspection.
4. Training and Consultancy Services.

Non-Destructive Testing (NDT) Services:

Non-Destructive testing is the use of noninvasive techniques to determine the integrity of a material, component or structure or quantitatively measure some characteristics of an object. It is the testing of materials, for surface or internal flaws or metallurgical condition, without interfering in any way with the integrity of the material or its suitability for service.

Our NDT Services are:

1. Visual Testing (VT).
2. Radiography Testing (RT).
3. Ultrasonic Testing (Conventional UT).
4. Advanced Phased Array Ultrasonic Testing (PAUT).
5. Ultrasonic Thickness Gauging (UTG)
6. Magnetic Particle Testing (MPT).
7. Liquid Penetrant Testing (LPT).
8. Positive Material Identification (PMI/XRF).
9. Industrial Endoscopic/Video Borescopic Inspection.
10. Eddy Current Testing (ET).
11. Coating Thickness Measurement.
12. Hardness Testing
13. Post Weld Heat Treatment (PWHT).
14. Hydraulic Pressure Testing (HPT).
15. Safety Valve Testing (SVT)
16. Load Testing (LT).

Condition Monitoring Services:

The object of 'Condition Monitoring (CM)' is to reduce the unplanned shutdown and speed loss, Extend machine life and to find the root cause of failure in your machine, reducing overall bearing and spare parts consumption.

The Condition Based Monitoring Cover following areas:

1. Vibration Analysis.
2. Oil Analysis.
3. IR Thermography.

Our Vibration Analysis Services are:

1. Routine Vibration Analysis
2. Vibration Base Line Development
3. Dynamic Mass Balancing

Our Oil Analysis service parameters:

1. Viscosity (cSt)
2. Total Acid Number (TAN) (mg KOH/g)
3. Total Base Number (TBN) (mg KOH/g)
4. Water content (ppm)
5. Oxidation (abs/mm2)
6. Alien fluid (%)
7. Anti-Oxidant Additive (%)
8. Anti-wear Additive (%)
9. Nitration (abs/mm2)
10. Sulfation (abs/mm2)
11. Soot (%)
12. Glycol/Antifreeze (%)

IR Thermography Service

A very impressive technology, that is non-destructive, non contact, fast & does not affect the production process. Thermography is a type of infrared imaging science that using to identify variations in temperature and heat sources in day or night. The infrared camera allows us to see what our eyes cannot!

We are using this unique technology for

1. Detecting loose or corroded electrical connections.
2. Detecting Electrical unbalance and overloads.
3. Inspecting electric motors.
4. Inspecting Industrial gearboxes & Coupling.
5. Inspecting bearings and moving components.
6. Locating Levels In Tanks, Vessels & Silos.
7. Monitoring transformers.
8. Inspecting process industry to find leakages, blockages.
9. Inspecting insulation efficiency, etc.

Electrical Safety Inspection:

Electrical safety is a system of organizational measures and technical means to prevent harmful and dangerous effects on workers from **electric** current, **electric** arc, electromagnetic field and static **electricity**.

Our electrical Safety inspection services are:

1. IR Thermography Inspection.
2. Electric Cable Insulation Test.
3. Ground/Earth Resistance Test.
4. Lighting Protection System (LPS).
5. Single Line Diagram (SLD)

Training and Consultancy Services:

For our customer we are providing training and consultancy services on Non-Destructive Testing (NDT) and Condition Monitoring Technology. Every year for the industrial engineering manpower development and knowledge sharing we are arranging seminars, exhibition, presentation and demonstration.

Day Long Programs:

1. Presentation and Demonstration on Non-Destructive Testing (NDT) Technology.
2. Presentation and Demonstration on Condition Monitoring Technology.
3. Presentation & Training on In-Service Boiler Inspection.

Training Programs on Non-Destructive Testing (NDT):

1. Fundamentals of NDT.
2. Training on Video-Borescope.
3. Training on Advanced Phased Array Ultrasonic Flaw Detector.
4. Training on Ultrasonic Thickness Gages.
5. Training on PMI/XRF.
6. Training on Magnetic Particle Testing Equipment.

Training Programs on Condition Monitoring (CM):

1. Basics of Vibration Analysis.
2. Vibration Analysis ISO Category Level I.
3. Training on Vibration Analysis Equipments.
4. Basics of Oil Analysis.
5. Training on Oil Analysis Equipment.
6. Basics of Thermal Analysis.
7. Training of Infra-Red Thermal Camera.

Non-Destructive Testing (NDT) of In-Service Boiler:

A boiler is a system in which water is heated and converted into steam. It is like a bomb in an industry. And the Non-Destructive Testing (NDT) is very important for new and In-service boiler to ensure the safe and efficient operation. It is possible to avoid the costly damage and severe accident through these practices.

Periodic overhauls are vital for the safe operation of boilers. In order to minimize downtime during such overhauls, the inspections need to be carried out quickly and efficiently. Non destructive testing (NDT) is crucial in order to achieve this goal. Over the years, NDT techniques have been used to assess the condition of specific components and identify defects.

Q&T Industrial Inspection Company provides the service on all aspects of NDT for boilers by using latest NDT technology and certified-experienced NDT inspectors.

Objective follow-up of NDT inspection

Q&T Industrial Inspection Company can monitor the quality of the boiler by the NDT inspections carried out by the boiler manufacturer or contractor. We check whether the highest industrial quality standards have been followed and whether the test results have been interpreted correctly. At present we provide the NDT services to maximum numbers of boiler manufacturer.

In-Service Boiler Inspection Services Are:

1. Industrial Video Borescopic Inspection for Boiler Tube Inspection.
2. Advanced Phased Array Ultrasonic Flaw Detection of Welding Section.
3. Magnetic Particle Testing (MPT).
4. Liquid Penetrant Testing (LPT).
5. Ultrasonic Thickness Gauging for Shell Plate & Tube Thickness Measurement.
6. Positive Material Identification (PMI/XRF) for Material Composition Check.
7. Hardness Testing.
8. Natural Gas Energy Audit by Certified Energy Auditor.
9. Remaining Life Assessment (RLA).
10. Descaling.
11. Hydraulic Pressure Testing (HPT).
12. Safety Valve Test (SVT) & Settings.

Our Using Equipment List:

Ultrasonic Flaw Detector

Model-EPOCH 600
Brand: Olympus
Country of Origin: USA



Ultrasonic Flaw Detector

Model-EPOCH 1000i
Brand: Olympus
Country of Origin: USA



Phased Array Ultrasonic Flaw Detector

Model-Omniscan-SX
Brand: Olympus
Country of Origin: USA



TOFD Scanner

Model-HST-Lite-Kit01
Brand: Olympus
Country of Origin: USA



Ultrasonic Thickness Gauge

Model-38DL Plus
Brand: Olympus
Country of Origin: USA



Ultrasonic Thickness Gauge

Model-45MG
Brand: Olympus
Country of Origin: USA



Radiography Gamma Projector

Model-Dual 120
Brand: Gammatech
Country of Origin: South Africa



Radiography X-Ray Generator

Model-ZHONG Y
Brand: ZHONG NDT
Country of Origin: China



Industrial Video Borescope

Model-iplex G Lite
Brand: Olympus
Country of Origin: Japan



<p>Industrial Video Borescope</p> <p>Model-plex Ultra Lite Brand: Olympus Country of Origin: Japan</p> 	<p>Electromagnetic Yoke</p> <p>Model-Y7 Brand: Magnaflux Country of Origin: ITW India</p> 	<p>Ultra Violet Light (Blake Light)</p> <p>Model-ZB 100F Brand: Magnaflux Country of Origin: ITW India</p> 
<p>Handle XRF(PMI)</p> <p>Model-Vanta Brand: Olympus Country of Origin: USA</p> 	<p>Hardness Tester</p> <p>Model-IPX 330 Brand: Bowers Metrology Country of Origin: China</p> 	<p>Coating Thickness Gauge</p> <p>Model-IPX-201FN Brand: Bowers Metrology Country of Origin: China</p> 
<p>Eddy Current Flaw Detector</p> <p>Model-Nortec 500S Brand: Olympus Country of Origin: USA</p> 	<p>IR Thermography Camera</p> <p>Model-TI 32 Brand: Fluke Country of Origin: USA</p> 	<p>Isolation Tester</p> <p>Model-160523643 Brand: Kyoritsu Country of Origin: China</p> 

Digital Earth Tester

Model- 4105A
Brand: Kyoritsu
Country of Origin: China



Post Weld Heat Treatment

Model: AH4712-EOA
Brand: Globe PWHT
Country of Origin: UK



Machinery Health Analyzer

Model: CSI2140
Brand: Emarson
Country of Origin: USA



Field Communicator

Model: 475
Brand: Emarson
Country of Origin: USA



Fluid Scan

Model: Q1000
Brand: Spectro Scientific
Country of Origin: USA



Viscosity Meter

Model: Q3000
Brand: Emarson
Country of Origin: USA



Some of our Completed Project

<p>GPH Ispat Limited</p> <p>Client: GPH Ispat Limited</p> <p>Project Name: 0.8 MTPY Integrated Steel Plant Project Chittagong</p> <p>Inspected Object: Oxygen Piping Welding Joint. Hydraulic Piping Welding Joint Bunker Grinder Welding Joint</p> <p>Method: Radiography Testing & Phased Array Ultrasonic Testing</p>	<p>Meghnaghat 450MW Power Plant</p> <p>Client: Dossan Skoda-Czech Republic</p> <p>Project Name: Restoration of 190MW Power Plant</p> <p>Inspected Object: Power Piping Welding Joint. Method: Radiography Testing & Phase Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testing</p>
<p>United Ashuganj Power Limited</p> <p>Client: United Ashuganj Power Company Limited</p> <p>Project Name: UEPSL Ashuganj Project</p> <p>Inspected Object: Welding Joint of Boiler Tube</p> <p>Method: Radiography Testing</p>	<p>Ashuganj Fertilizer & Chemical Company Limited</p> <p>Client: Ashuganj Fertilizer & Chemical Company Limited.</p> <p>Inspected Object: Gas Air Cooler Pipe Welding Joint.</p> <p>Method: Radiography Testing.</p>
<p>Shikalbaha 150 MW Power Plant</p> <p>Client: Siemens Bangladesh</p> <p>Project Name: 150MW Power Plant Duel-Fuel</p> <p>Inspected Object: Welding Joint of Boiler Tube</p> <p>Method: In this project we used Radiography Testing</p>	<p>Summit Meghnaghat Power Company Limited</p> <p>Client: GE Bangladesh</p> <p>Inspected Object: Turbine Combustion Chamber, Filter System, Atomizing Air System.</p> <p>Inspection Method: Video-borescopic Inspection & Phased Array UT.</p>
<p>Bhola Shabazpur Gas Plant-BAPEX</p> <p>Client: Bangladesh Petroleum Exploration & Production Company Limited</p> <p>Inspected Object: Gas Flow Pipe Line Inspection Method: Phased Array Ultrasonic Testing Lieu of Radiography Testing</p>	<p>Navana LPG Cross Country Pipe Line Installation & ancillary works</p> <p>Client: THE ROYAL UTILISATION SERVICES (PVT) LTD.</p> <p>Inspected Object: 10" API-5L- Gr-B- Cross Country LPG Pipe Line</p> <p>Inspection Method: Phased Array Ultrasonic Testing Lieu of Radiography</p>

<p>Meghna Ship Building & Dockyard Limited</p> <p>Client: Meghna Group of Industries</p> <p>Inspected Object: Hull Welding Joint</p> <p>Inspection Method: Phased Array Ultrasonic Testing Lieu of Radiography Testing.</p>	<p>Khan Brothers Ship Building Limited(A Concern of city Group)</p> <p>Client: City Group</p> <p>Inspected Object: Hull Welding Joint</p> <p>Inspection Method: Phased Array Ultrasonic Testing Lieu of Radiography Testing.</p>
<p>Haripur 360MW Power Plant- Shut Down.</p> <p>Client: Haripur Power Company Limited.</p> <p>Inspected Object: Turbine Blade, Rotor Wedges.</p> <p>Inspection Method: Phased Array Ultrasonic Testing.</p>	<p>Client: Bureau Veritas Bangladesh PVT Limited</p> <p>Inspected Object: Boiler Component(Tube, Boiler Header)</p> <p>Inspection Method: Phased Array Ultrasonic Testing, Ultrasonic Thickness Gauge, Liquid Penetrant Testing, Magnetic Particle Testing</p>
<p>Akhaura-Laksham Double Line Project- Bangladesh Railway</p> <p>Client: Max Infrastructure Limited</p> <p>Inspected Object: Bridge Girder Welding Joint</p> <p>Inspection Method: Phased Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testing</p>	<p>Bhola Rental Power Plant</p> <p>Client: Venture Energy Recourses Limited</p> <p>Inspected Object: Pipe Welding Joint, Turbine Blade</p> <p>Inspection Method: Phased Array Ultrasonic Testing & Borescopic</p>
<p>Max Kusiara Power</p> <p>Client: Max Kusiara Power Company Limited</p> <p>Inspected Object: Gas Turbine</p> <p>Inspection Method: Video Borescopic</p>	<p>Max Power Ghorashal</p> <p>Client: Max Power</p> <p>Inspected Object: Gas Turbine</p> <p>Inspection Method: Video Borescopic</p>
<p>Khulna Ship Yard Limited</p> <p>Client: MST Marine Services & Traders Ltd.</p> <p>Inspected Object: Hull Welding Joint.</p> <p>Inspection Method: Phased Array Ultrasonic Testing & Liquid Penetrant Testing</p>	<p>Summit Meghnaghat Power Company Limited</p> <p>Client: GE Bangladesh</p> <p>Inspected Object: Gas Turbine Component</p> <p>Inspection Method: Liquid Penetrant Testing</p>

Summit Bibiyana-II Client: GE Bangladesh Inspected Object: Gas Turbine Component Inspection Method: Liquid Penetrant Testing.	Cemex Cement Client: Cemex Cement Bangladesh Limited Inspected Object: Ball Mill, Separator, Crane, Girth Gear Inspection method: Phased Array Ultrasonic Testing, Liquid
Engine Base HFO Power Plant Client: Orion Power Meghnaghat Limited (100MW) Inspected Object: Engine Component Inspection method: Magnetic Particle Testing, Liquid Penetrant Testing Penetrant Testing	Engine Base HFO Power Plant Client: DUTCH BANGLA POWER & ASSOCIATES LTD (100MW) Inspected Object: Engine Component Inspection method: Magnetic Particle Testing, Liquid Penetrant Testing Penetrant Testing
British American Tobacco Client: Bureau Vertitas Bangladesh PVT Limited Inspected Object: High Pressure Steam Piping Weld Joint Inspection method: Radiography Testing	Engine Base HFO Power Plant Client: DIGITAL POWER & ASSOCIATES LTD (100MW) Inspected Object: Engine Component Inspection method: Magnetic Particle Testing, Liquid Penetrant Testing Penetrant Testing
Engine Base HFO Power Plant-EPV Chittagong Client: Rolls-Royce -BERGEN ENGINE BANGLADESH PVT Ltd Inspected Object: Engine Component Inspection method: Magnetic Particle Testing, Liquid Penetrant Testing	Engine Base HFO Power Plant-Midland Power Ashuganj Client: Rolls-Royce -BERGEN ENGINES BANGLADESH PVT Ltd Inspected Object: Engine Component Inspection method: Ultrasonic Testing, Magnetic Particle Testing, Liquid Penetrant Testing.
Engine Base HFO Power Plant-Akij Cement Client: Rolls-Royce -BERGEN ENGINES BANGLADESH PVT Inspected Object: Engine Component Inspection method: Magnetic Particle Testing, Liquid Penetrant Testing	Steel Building Structure Inspection for Shiddirganj 335MW Power Plant Client: Isolux Corsan Bangladesh Inspected Object: Steel Structure Inspection method: Visual Inspection, Phased Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testing.

<p>Steel Building Structure Inspection for Ashuganj Power Station Company Limited TSH North 450MW</p> <p>Client: TSK/TR</p> <p>Inspected Object: Steel Structure</p> <p>Inspection method: Visual Inspection, Phased Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testing.</p>	<p>Steel Building Structure Inspection for BSRM</p> <p>Client: Bureau Vertitas Bangladesh PVT Limited</p> <p>Inspected Object: Steel Structure</p> <p>Inspection method: Visual Inspection, Phased Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testing</p>
<p>Steel Building Structure Inspection for British American Tobacco</p> <p>Client: Bureau Vertitas Bangladesh PVT Limited</p> <p>Inspected Object: Steel Structure</p> <p>Inspection method: Visual Inspection, Phased Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testingv</p>	<p>Steel Building Structure Inspection for British Holcim Bangladesh Limited</p> <p>Client: Bureau Vertitas Bangladesh PVT Limited</p> <p>Inspected Object: Steel Structure</p> <p>Inspection method: Visual Inspection, Phased Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testingv</p>
<p>Steel Building Structure Inspection Shanta Glass House</p> <p>Client: Bureau Vertitas Bangladesh PVT Limited</p> <p>Inspected Object: Steel Structure</p> <p>Inspection method: Visual Inspection, Phased Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testingv</p>	<p>Steel Building Structure Inspection for Square Denim Limited</p> <p>Client: Bureau Vertitas Bangladesh PVT Limited</p> <p>Inspected Object: Steel Structure</p> <p>Inspection method: Visual Inspection, Phased Array Ultrasonic Testing, Liquid Penetrant Testing, Magnetic Particle Testing</p>
<p>Bangladesh Boiler Industries</p> <p>Client: All Boiler Company of Bangladesh</p> <p>Inspected Object: Boiler Shell Welding Joint</p> <p>Inspection method: Radiography Testing & Phased Array Ultrasonic Testing</p>	<p>600 Garments Factory</p> <p>Client: Bureau Vertitas Bangladesh PVT Limited</p> <p>Inspected Object: Electrical System</p> <p>Inspected Method: IR Thermography for Electrical Anomaly Check</p>

Training Services:

Chevron Bangladesh

Name of the Course: Vibration Analysis ISO Category Level-I, CSI 2130 Vibration Equipment & Analysis Software

Course Duration: 9 days



Meghnaghat Power Limited

Name of the Course: Basics of Vibration Analysis

Course Duration: 4 days



Karnaphuli Fertilizer Company (KAFCO)

Name of the Course: CSI 2140 Vibration

Equipment & Analysis Software

Course Duration: 4 days



Ghorashal Training Center

Name of the Course: Application of Non-Destructive Testing Course

Duration: 2 days



<p>Training Institute For Chemical Industries (TICI)</p> <p>Seminar on Plant Condition Monitoring & Non-Destructive Testing</p>	
<p>Bangladesh Atomic Energy Commission</p> <p>Workshop On Non-Destructive Testing & Plant Condition Monitoring</p>	
<p>Biman Bangladesh Airlines</p> <p>Training on Non-Destructive Testing</p>	
<p>Islamic University & Technology</p> <p>Training on Non-Destructive Testing</p>	



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