



3D LASER GRAMMETRY | 3D MODELING | DIGITAL TWINS



www.testronixengineering.com

ABOUT US

Welcome to Testronix Engineering Private Limited, a pioneer in the laser scanning industry, dedicated to providing cutting-edge spatial data acquisition and analysis services. Undertaking projects of all sizes, worldwide. Testronix is an ISO 9001:2015 certified company, having its operating address in India(Hyderabad), KSA(Dammam) & Bahrain(Tumbli).

Founded in 2018, Testronix has rapidly evolved from a small startup to a respected name in the laser scanning sector. Our journey has been marked by continuous innovation, strategic growth, and an unwavering commitment to excellence.

Core Service and Expertise :

We specialize in 3D Laser scanning | Asset management | Digital Twins | 3D Modeling Point Cloud Data | High-Precision Surveying | As-Built Documentation | LiDAR Technology | Spatial Data | BIM (Building Information Modeling) | Geospatial Analysis | Virtual Reality (VR) Integration | Industrial Surveying | Mapping and Surveying | CAD (Computer-Aided Design) Integration | Data processing | LFD generation | True view generation | Scan to 2D | 2D layouts to 3D modelling | Isometrics generation | 3D model to 2D layouts



ABOUT FOUNDER

Meet Venkateshwar Rao Potlacheruvu, the visionary Founder and Managing Director of Testronix Engineering Private Limited.

Venkateshwar Rao holds a Master's degree in Mechanical Engineering from JNTU affiliated college and has over 10+ years of experience in the laser scanning industry. Before founding Testronix, he worked at leading companies like Consolidated Gulf Company, where he honed his skills in 3D laser scanning and project management.

Inspired by the rapid technological advancements and the need for innovative solutions in laser scanning industry, Venkateshwar Rao founded Testronix in 2010. His mission is to create cutting-edge technology that improves the quality of digital twins and drives global progress.

Looking ahead, Venkateshwar Rao aims to expand Testronix global presence and continue driving technological advancements. He welcomes collaboration and is always open to feedback and new ideas. Connect with him and join him on this exciting journey towards a more innovative future.



MISSION & VISION

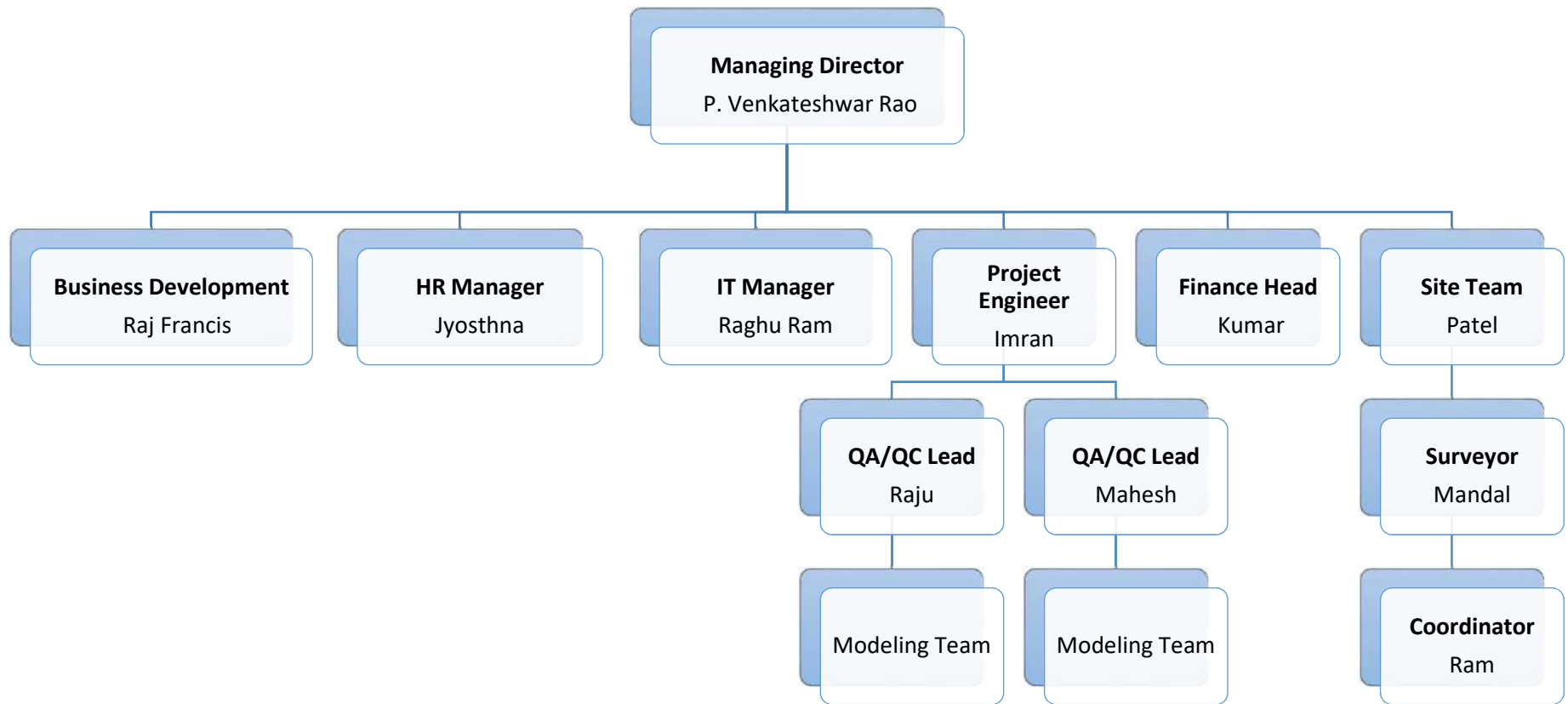
Our Mission:

To revolutionize the way industries capture and analyze spatial data by providing state-of-the-art laser scanning solutions that deliver unparalleled accuracy, efficiency, and reliability. We are committed to driving innovation, ensuring customer satisfaction, and fostering sustainable practices in every project we undertake.

Our Vision:

To be the global leader in laser scanning technology, empowering industries to harness the power of precise spatial data for smarter decision-making, enhanced productivity, and transformative growth. We envision a future where our cutting-edge solutions are integral to advancing engineering, construction, environmental conservation, and beyond.

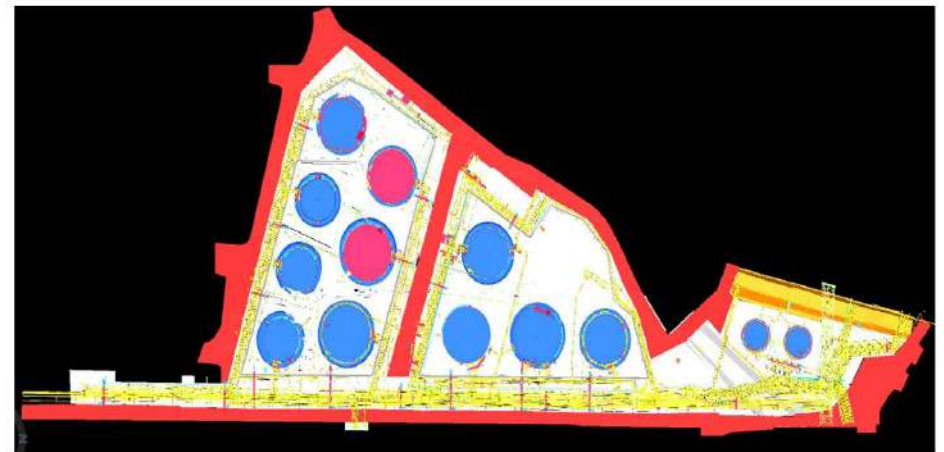
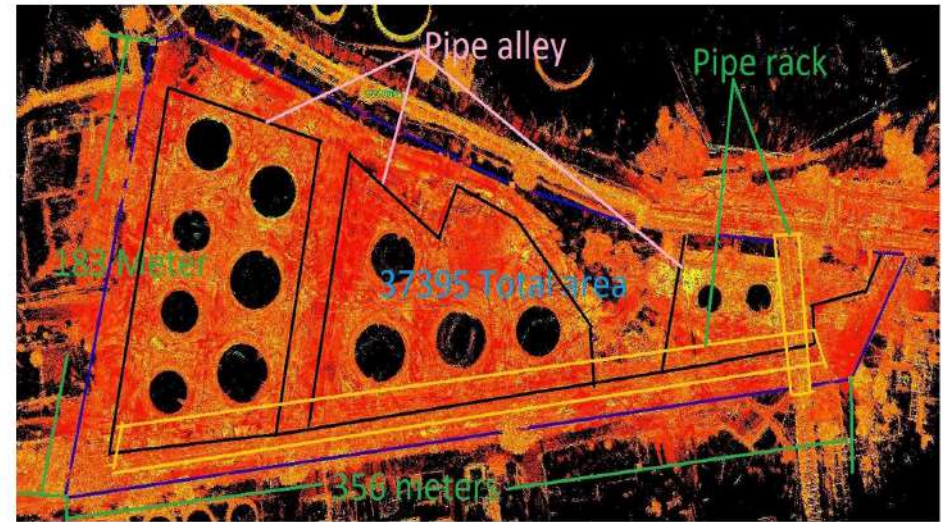




Our team with 10+ years of international experience in delivering projects in the following software

Leica Cyclone* | Revit* | LFM
CAESAR II | PDMS | PDS | SP 3D | S3D | E3D
CADWorx | AUTOCAD PLANT 3D
NAVIS WORKS | AUTOCAD | MICROSTATION
STAAD PRO | TEKLA

*A major part of our team specializes in Scan to BIM/
Scan to CAD on Leica Cyclone & Revit.



What is 3d Laser Scanning and its uses

- A digital twin of any infrastructure is its virtual copy and it forms the base of Industry 4.0. A twin helps owners, engineers, architects, contractors, inspectors and civic bodies in simulation, survey, planning, assessment, measurement, regulation, modification, revamping and quality control activities from any remote location
- Its made by 3D laser scanning the infrastructure and modeling it. There are plenty of scanners and modeling software, but the technology is yet to take off prominently, as the current providers of this service are decentralized and comfortable, comfortable is dangerous to innovation. Oil and gas is the first prominent user of the tech, yet its still at 5% awareness.
- Realistic imagery is possible with 3D laser scanning giving a 360 degree image. A 360 camera lacks depth perception. The next step of laser scanning would be its integration with VR, AR and MR

What is 3D laser scanning used in?

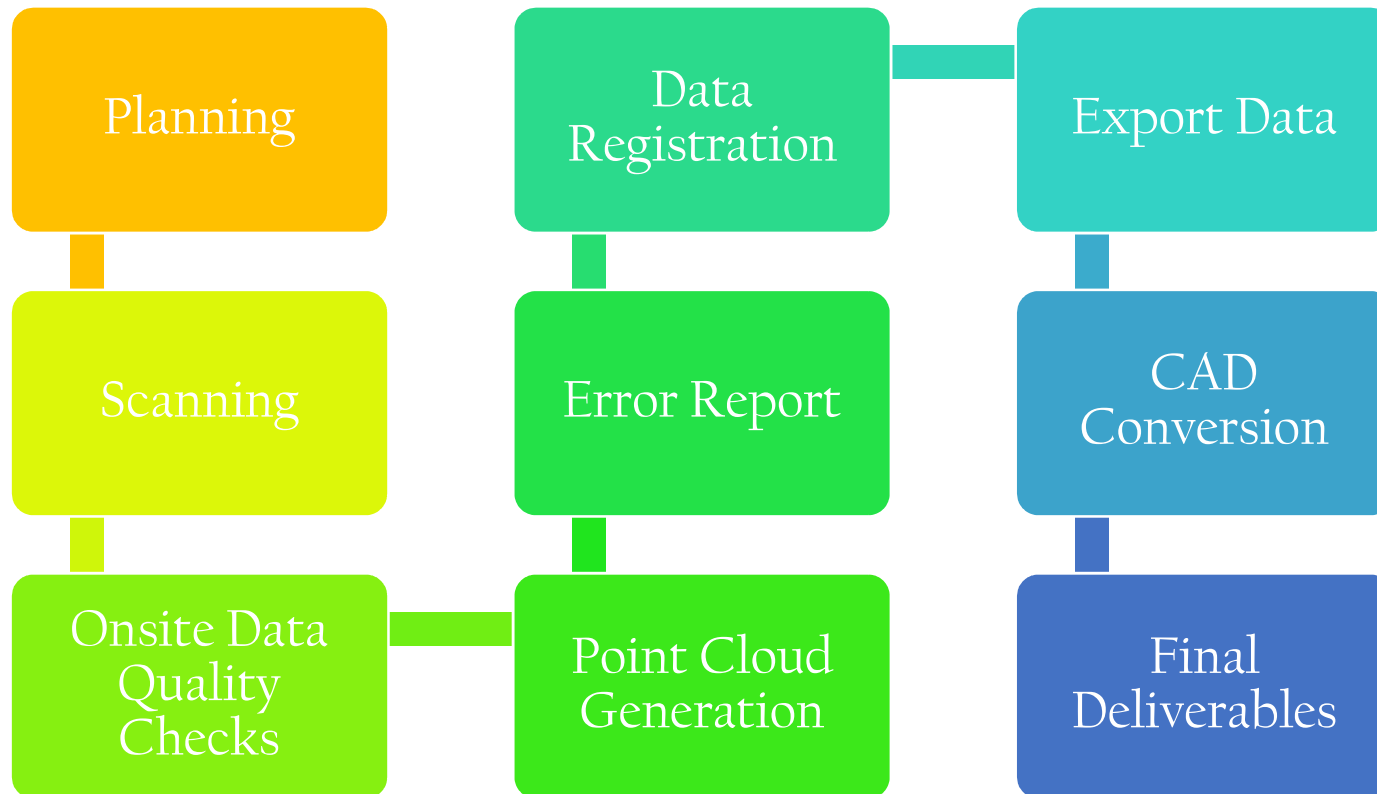
- Infrastructure projects
- Real Estate
- Energy companies
- Industrial plants
- EPC Projects
- Manufacturing plants
- Land Surveyors
- Stockpile surveyors
- Architecture
- Urban planning
- Asset Monetization
- Marine Assets
- Material & Equipment Suppliers
- Security agencies
- Forensics
- Infrastructure insurance
- Archeological & Heritage storage

Why do they need it?

- Project Expansion
- Modification Project
- Revamping Project
- Equipment addition
- Reduce surveying time in the pre-design phase
- Improve design efficiency by reducing site visits using 3D visualization
- Increase the accuracy of contractor pricing in the bidding stage
- Reduce change orders and increasing off-site fabrication
- Deliver more accurate as-built documentation
- Months Worth of Work Can Be Done in Days
- Level of Accuracy as high as 3 mm
- Ability to Survey Buildings While Occupied
- Early Decision Making Prior to Design Planning
- Speed Up Project Completion
- Accurate layout of the facilities for production line re-arrangement reference
- Reduce manpower for site acquisition
- Easy access to data enables dynamic bid specification and confidence installation
- Reduce travel cost, engineering design time and field change order.



Process of 3d Laser Scanning

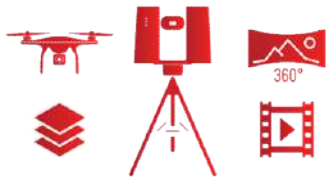


Process of 3d Laser Scanning



Data of Digital Twins

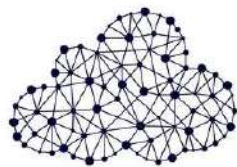
Information that is recorded, extracted, stored and accessed currently in digital twins



VISUAL DATA

360-degree reality capture of the infrastructure

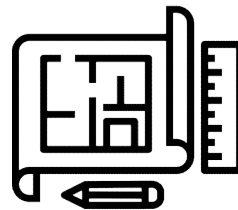
A 3D Photographic view of the space, recording every surface along with depth perception



POINT CLOUD DATA

Reality capture divides the space into billions of points forming a point cloud and each point records its location in the infrastructure as-it-is

This makes the 3D data accuracy precise to 1 mm.



2D DATA

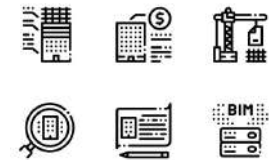
2D view

2D layout / plan



3D DATA

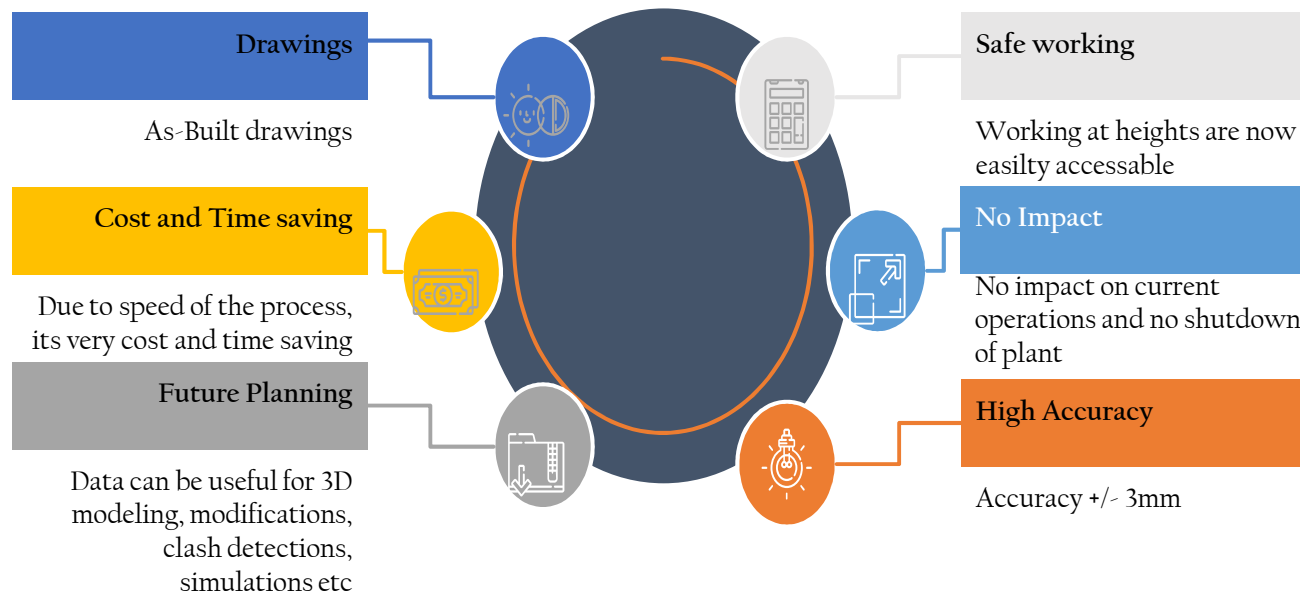
3D visualization
3D model/rendering
3D Photograph
Virtual walkthrough
Spatial simulation
Immersive tour



BIM & INTELLIGENT MODEL DATA

Simulation & Analysis
Detail Engineering
Process engineering
Material Specifications
Bill of materials
Equipment specs.
Location & Orientation
Compliance
Schedules
Logistics

Value Addition of 3d Laser Scanning



INDUSTRIES SERVED

Our versatile solutions cater to a wide range of industries, including engineering, construction, architecture, environmental conservation, and heritage preservation.

Our extensive experience across these sectors ensures that we can meet the unique needs of each industry with tailored solutions.





Inviting you to
Outsource & Refer projects.
Set up dedicated teams for you in India

www.testronixengineering.com
+91 9849771676
venkatesh@testronixengineering.com



Thank you, Looking forward to a partnership of trust & confidence

Outsource your projects for huge savings

Tap your partner network by referring projects

Add value to your supply chain by setting up a dedicated team in India

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venkatesh@testronixengineering.com





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: AS-BUILT MODEL DEVELOPMENT FOR PROCESS UNIT

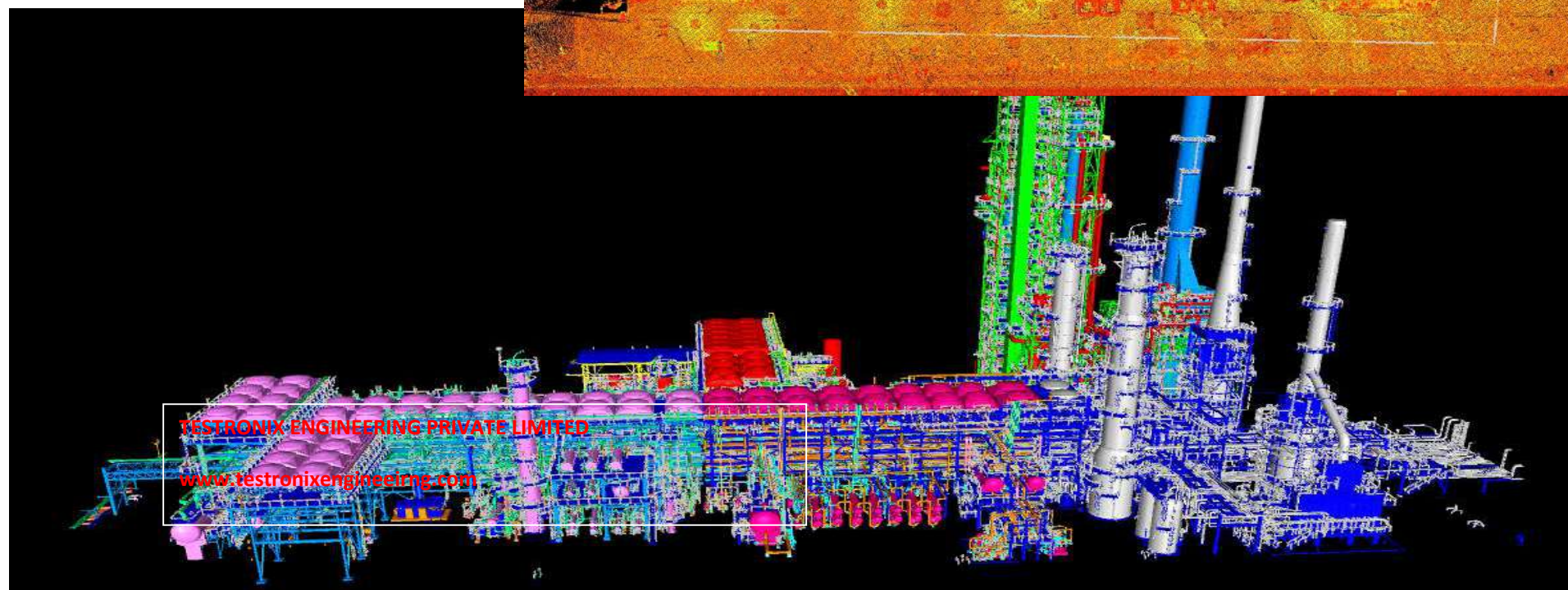
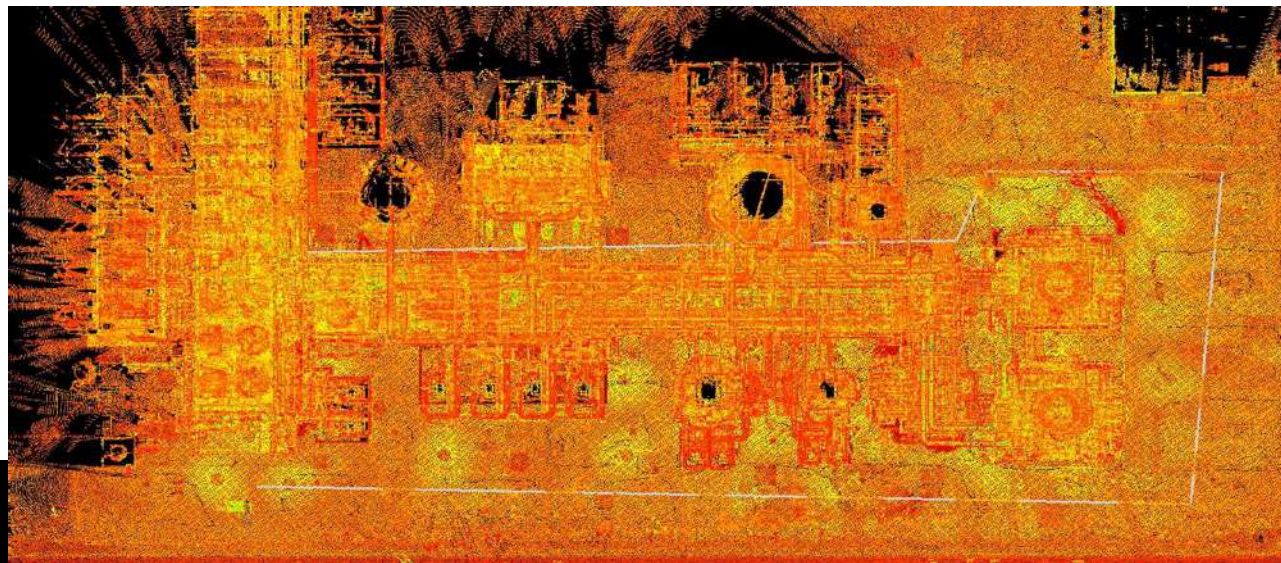
SCOPE OF WORK: 3D PRIMITIVE MODELLING

PROJECT LOCATION: UAE

SOFTWARES USED: CYCLONE MODELLER

PROJECT DURATION: 2 MONTHS

PROJECT STATUS: ONGOING





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: AS-BUILT MODEL DEVELOPMENT FOR 300MW POWER PLANT

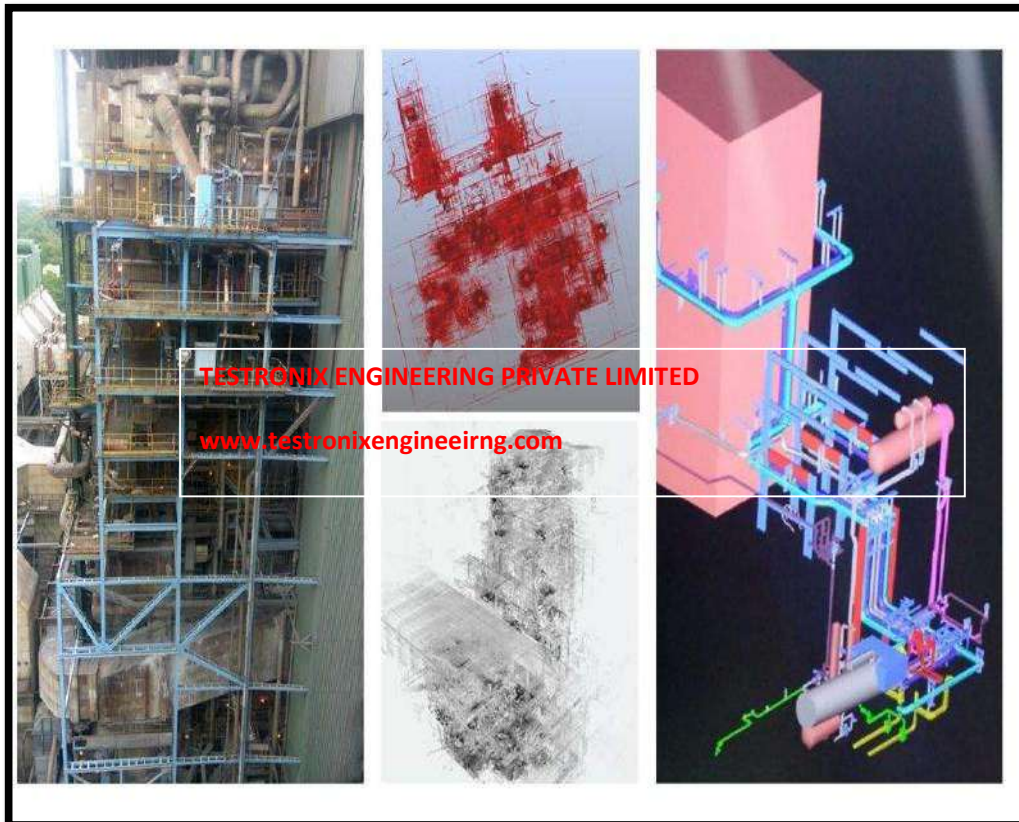
SCOPE OF WORK: 3D LASER SCANNING, 3D PRIMITIVE MODELLING

PROJECT LOCATION: NTPC, TELANGANA, INDIA

SOFTWARES USED: FARO SCENE, CYCLONE

PROJECT DURATION: 2 MONTHS

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: AS-BUILT SCAN DATA FOR 200MW POWER PLANT

SCOPE OF WORK: 3D LASER SCANNING

PROJECT LOCATION: ITC BADRACHALAM, TELANGANA, INDIA

SOFTWARES USED: FARO SCENE, LFM

PROJECT DURATION: 20 DAYS

PROJECT STATUS: 100% COMPLETED



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PROJECT NAME: STRUCTURAL ANALYSIS OF CONVEYOR BELTS

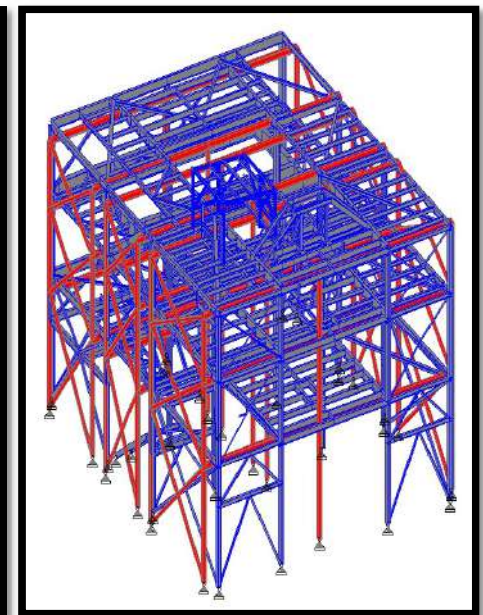
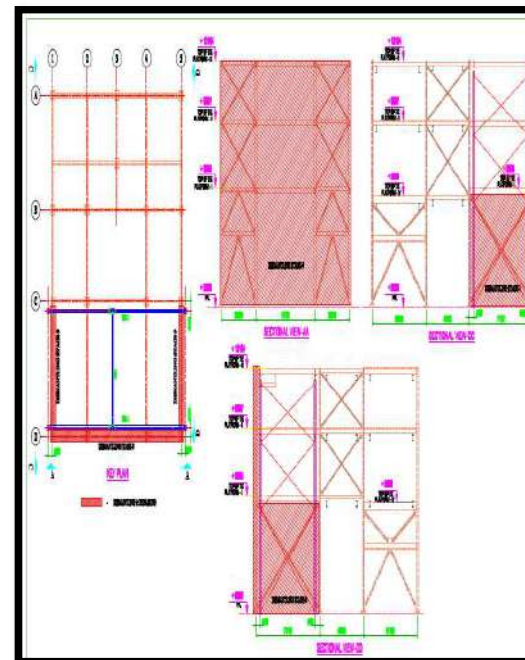
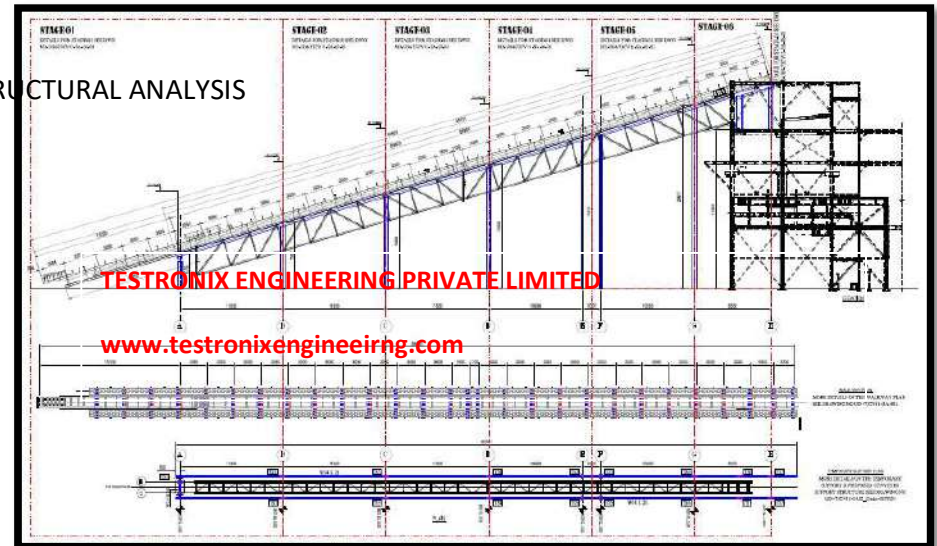
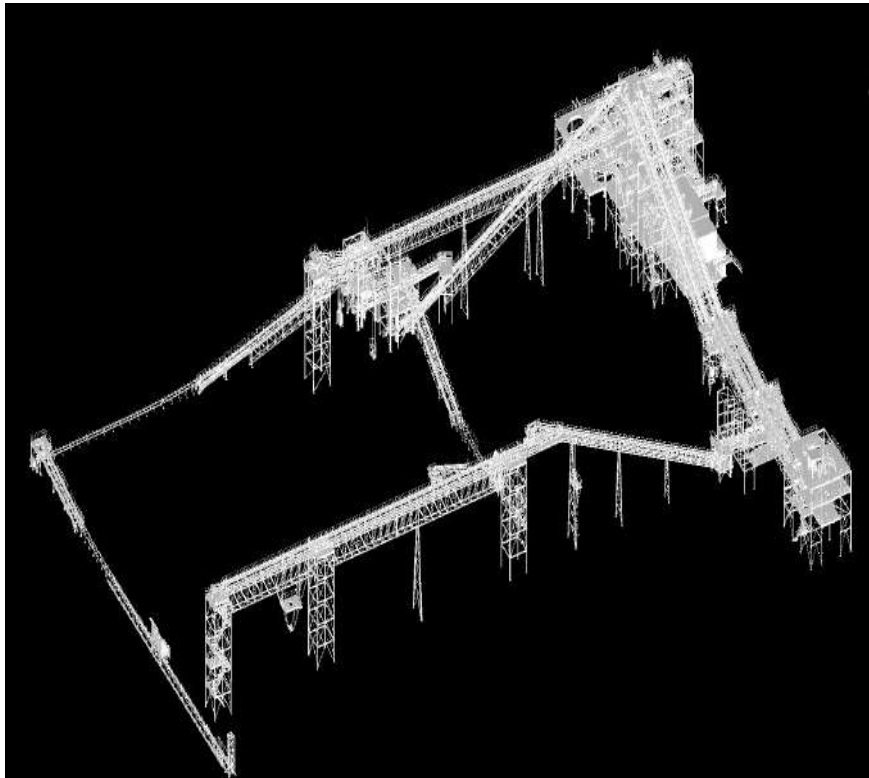
SCOPE OF WORK: 3D LASER SCANNING, 3D MODELLING, 2DDRAWINGS&STRUCTURAL ANALYSIS

PROJECT LOCATION: SAUDI ARABIA

SOFTWARES USED: CYCLONE, TEKLA, STADD, AUTOCAD

PROJECT DURATION: 6 MONTHS

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: BOILER RE-ASSESSMENT SUTDIES

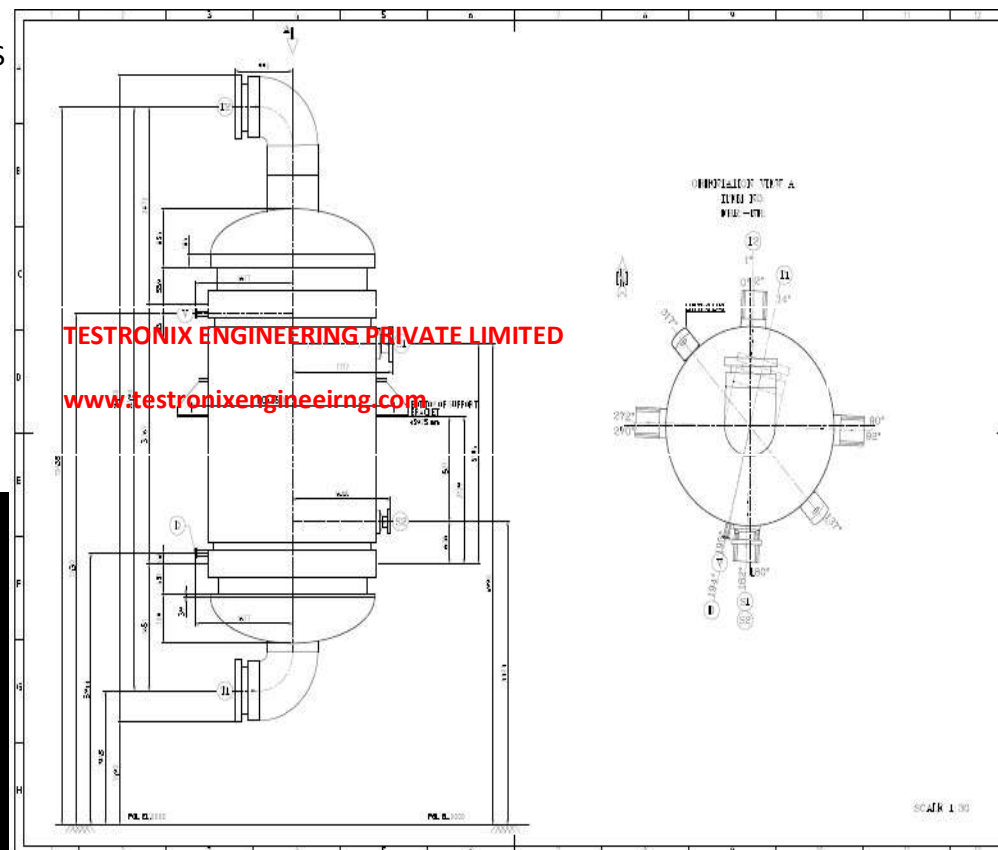
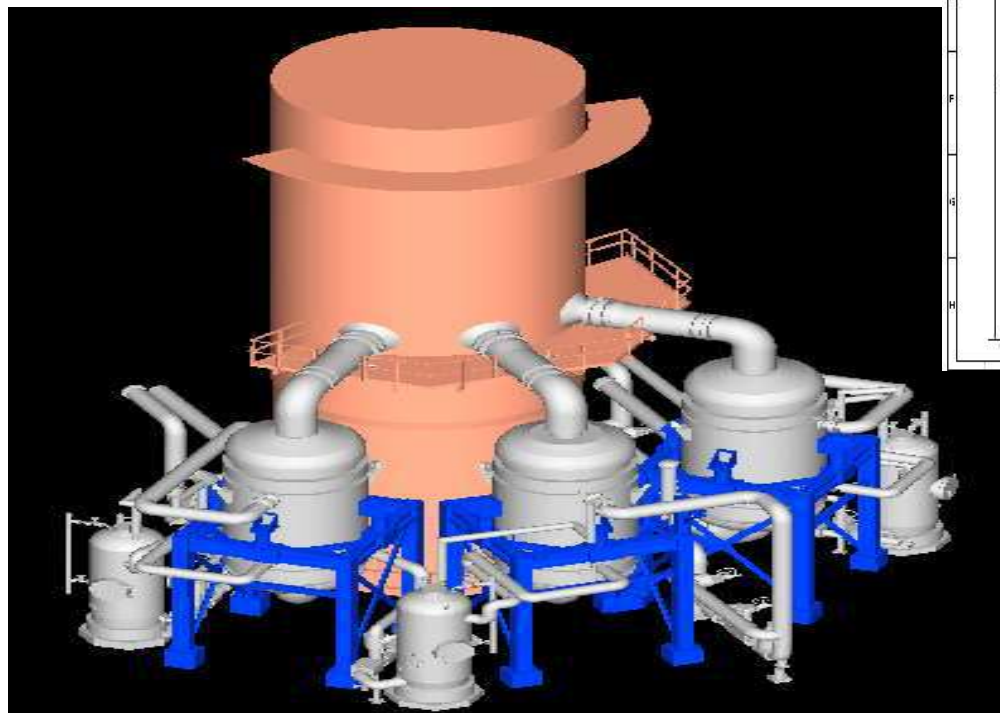
SCOPE OF WORK: 3D LASER SCANNING, 3D MODELLING, 2DDRAWINGS

SOFTWARES USED: CYCLONE, AUTOCAD

PROJECT LOCATION: SAUDI ARABIA

PROJECT DURATION: 1 MONTH

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: OFFSHORE PLATFORM REVAMPING

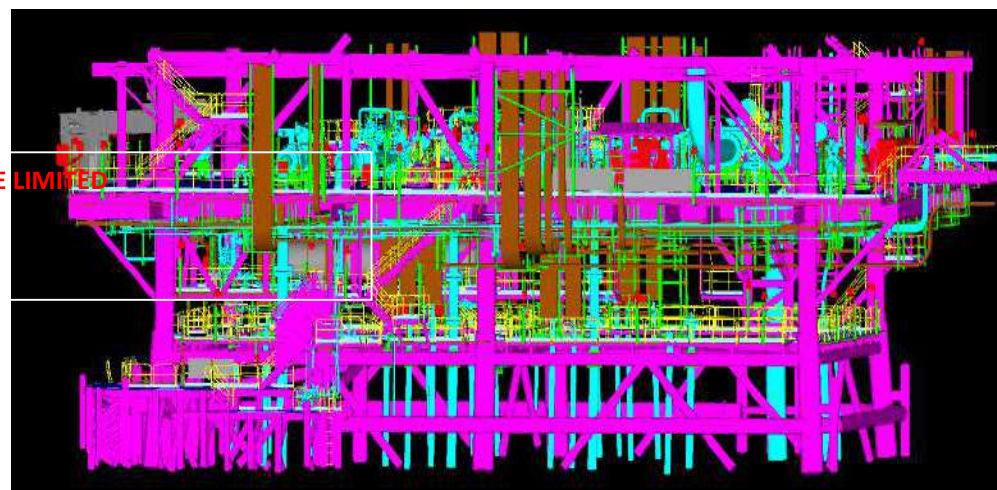
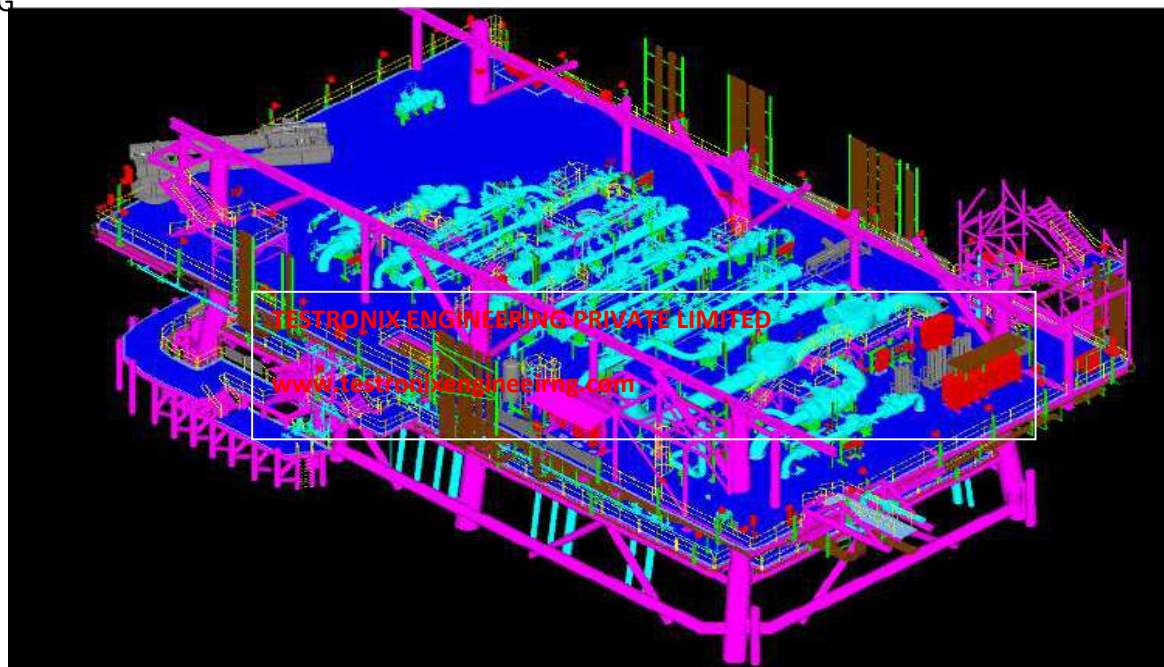
SCOPE OF WORK: 3D MODELLING

SOFTWARES USED: CYCLONE, PDS,

PROJECT LOCATION: SAUDI ARABIA

PROJECT DURATION: 1 MONTH

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: MAINFOLDS REVAMPING

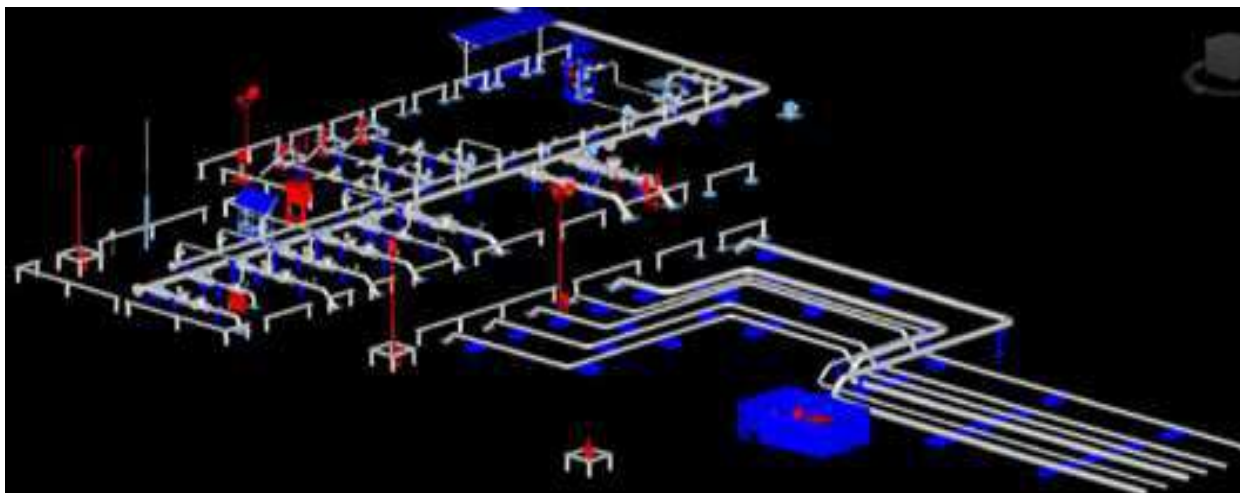
SCOPE OF WORK: 3D MODELLING

SOFTWARES USED: CYCLONE, PDS

PROJECT LOCATION: SAUDI ARABIA

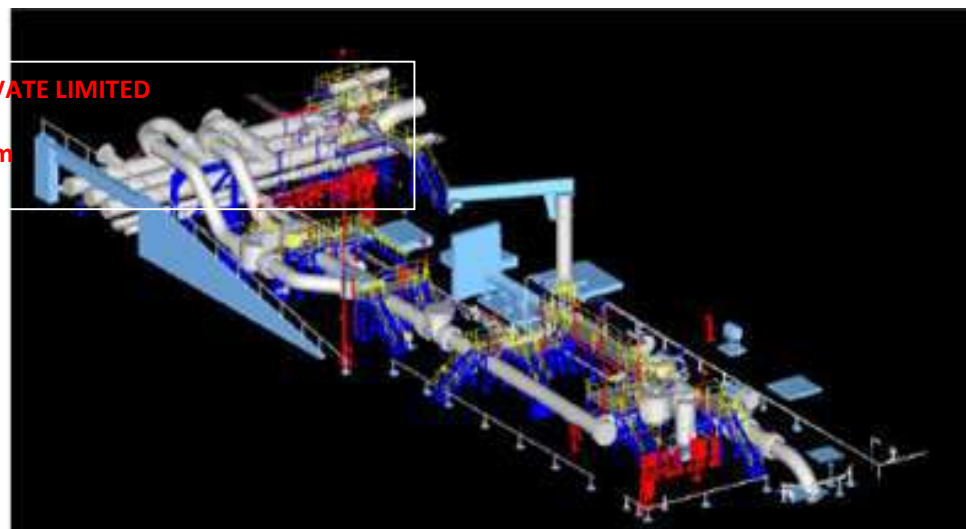
PROJECT DURATION: 1 MONTH

PROJECT STATUS: 100% COMPLETED



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TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: BOILER POWER PLANT RE-ASSESSMENT

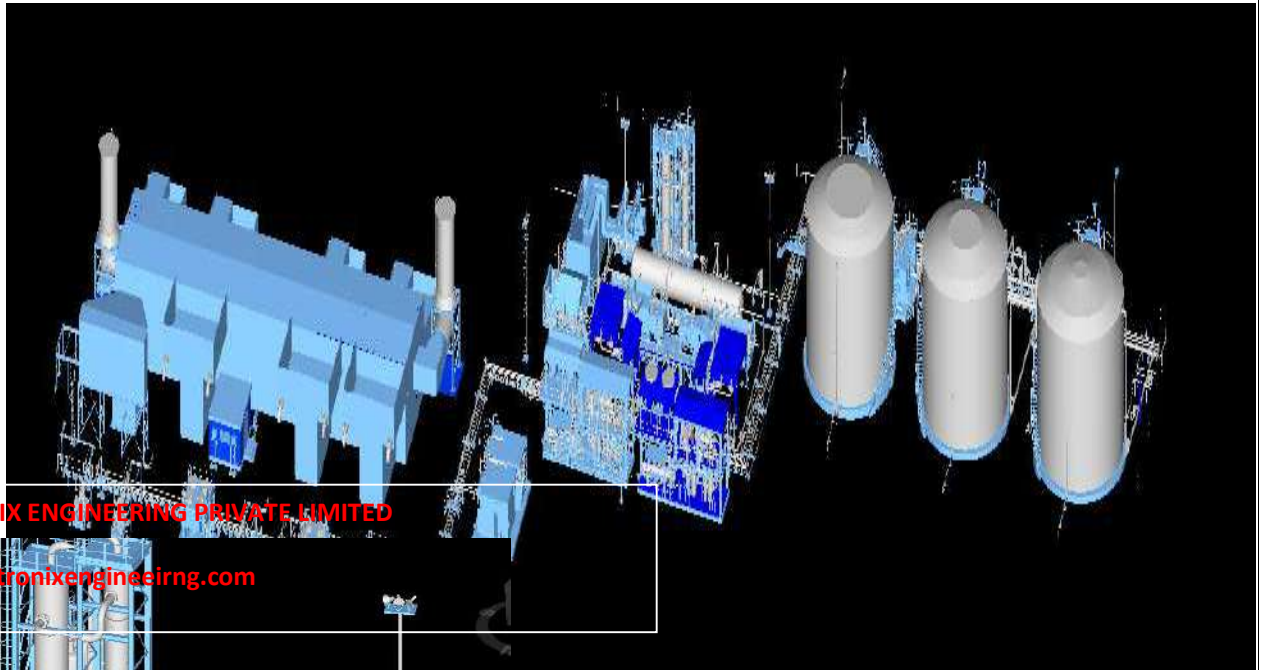
SCOPE OF WORK: 3D MODELLING, 2DDRAWINGS

SOFTWARES USED: CYCLONE

PROJECT LOCATION: QATAR

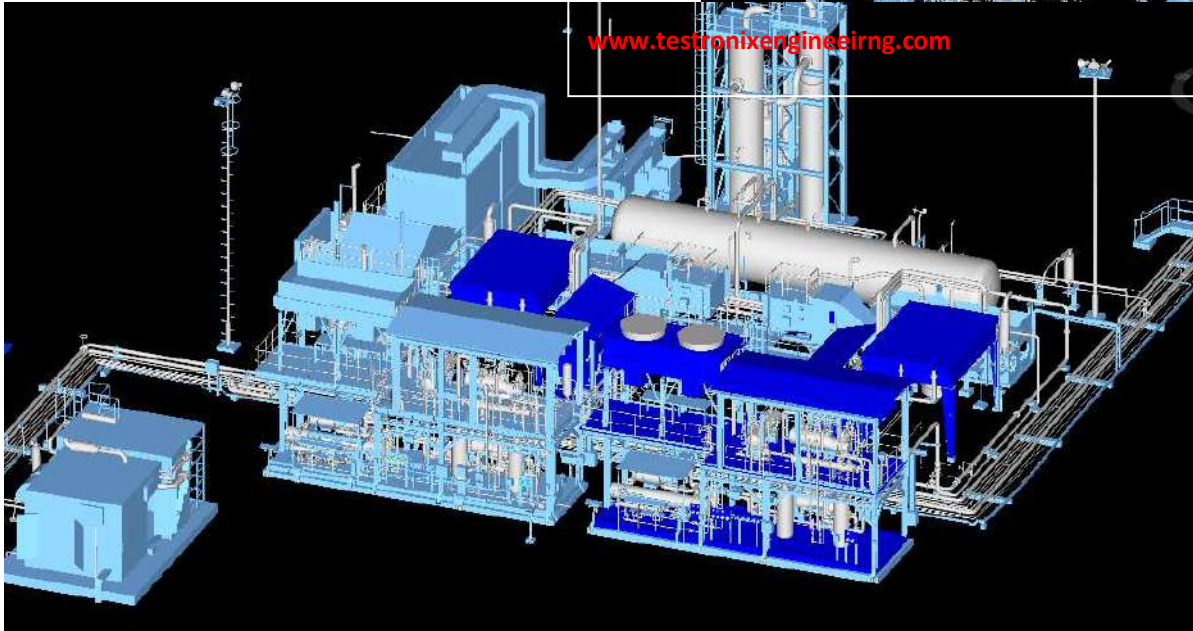
PROJECT DURATION: 2 MONTH

PROJECT STATUS: 100% COMPLETED



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PROJECT NAME: CCR UNIT

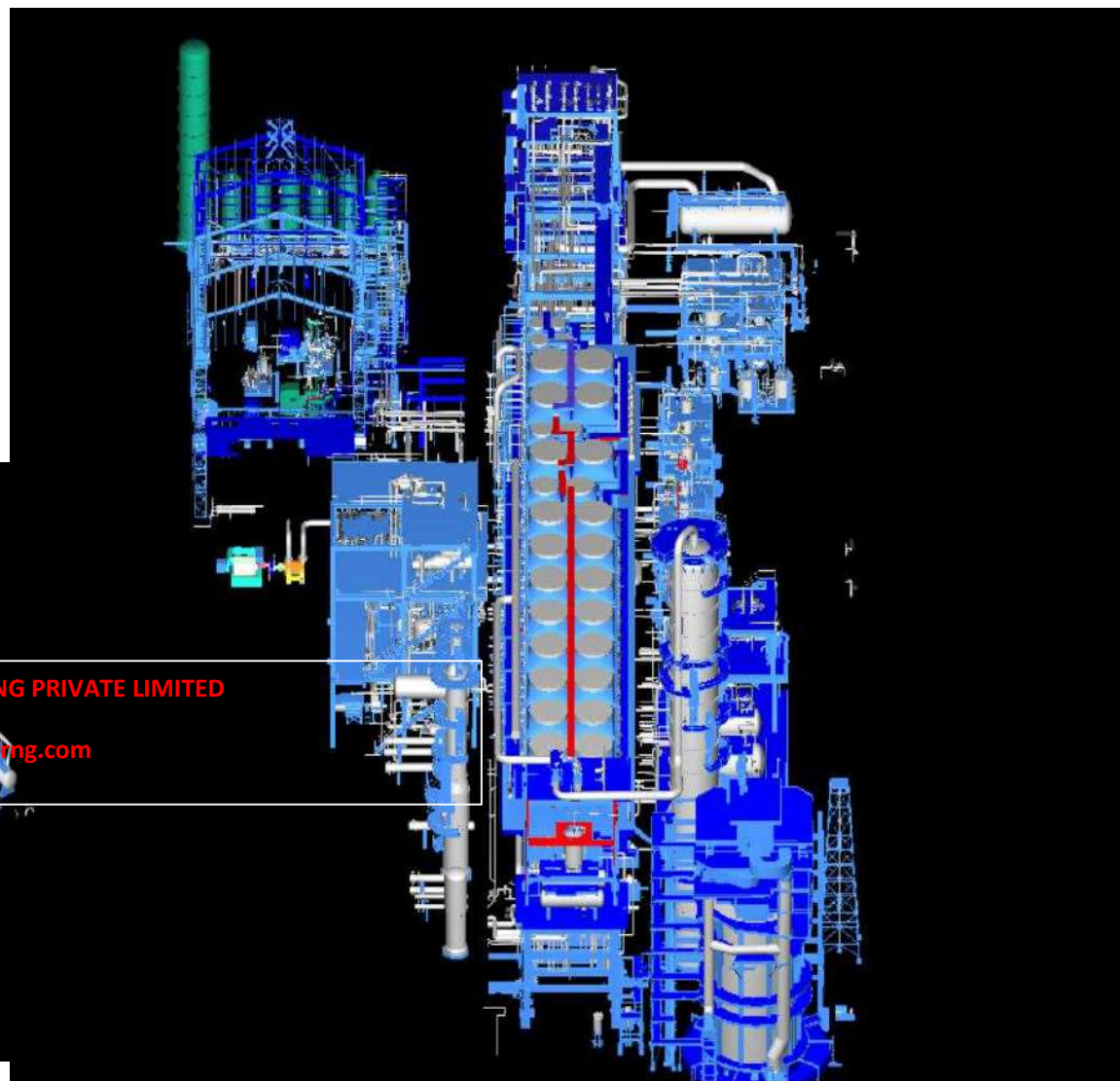
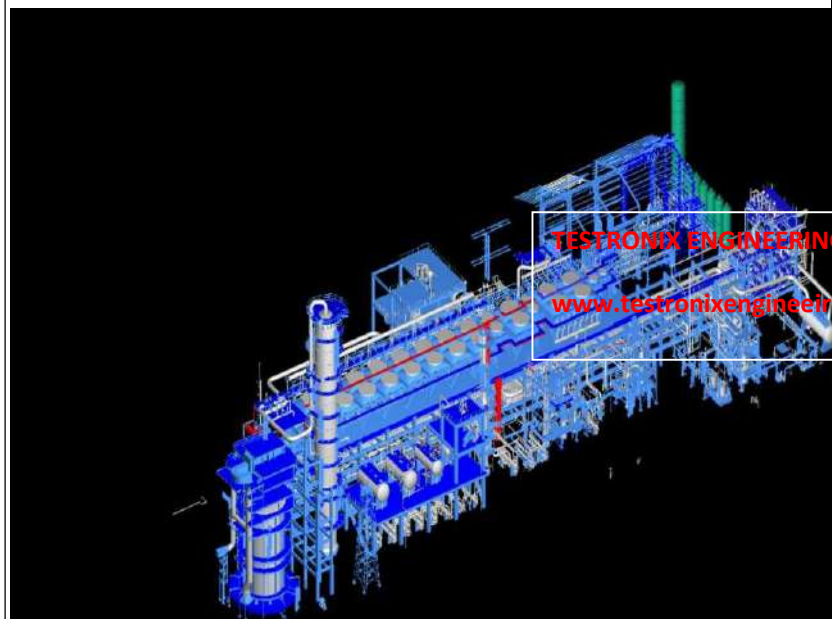
SCOPE OF WORK: 3D MODELLING

SOFTWARES USED: CYCLONE, PDMS

PROJECT LOCATION: INDIA

PROJECT DURATION: 4 MONTH

PROJECT STATUS: 100% COMPLETED



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PROJECT NAME: TANK FARM UNIT

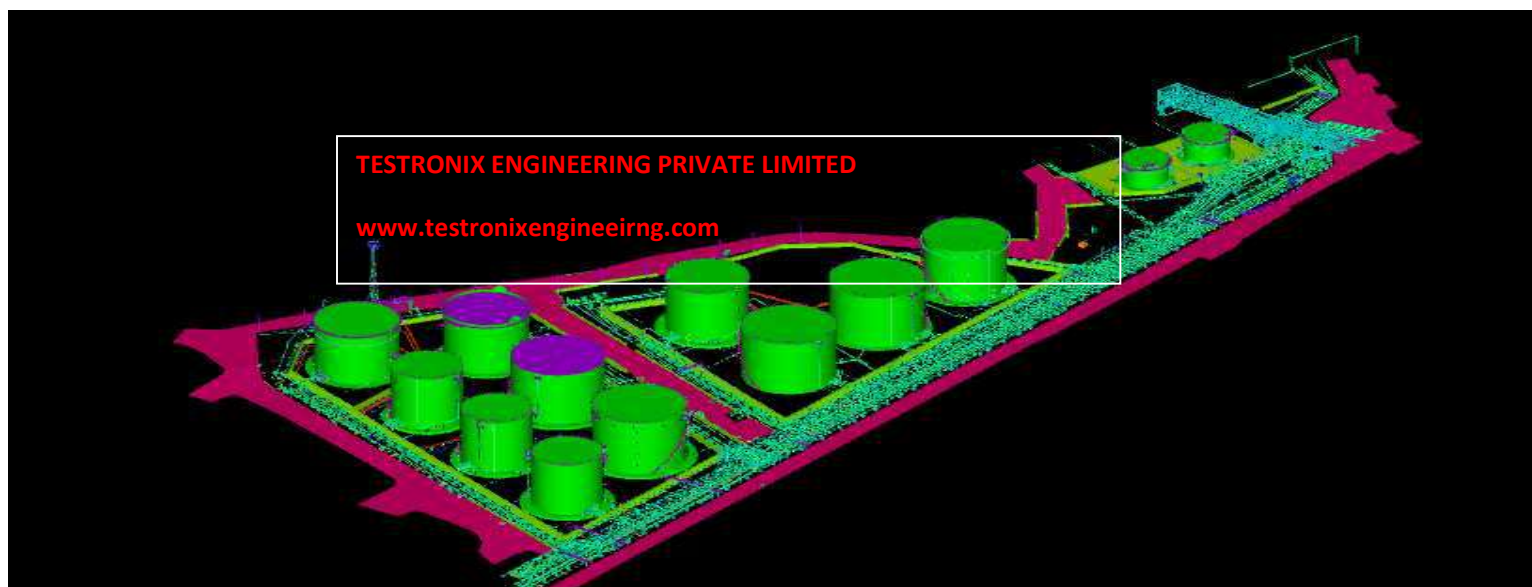
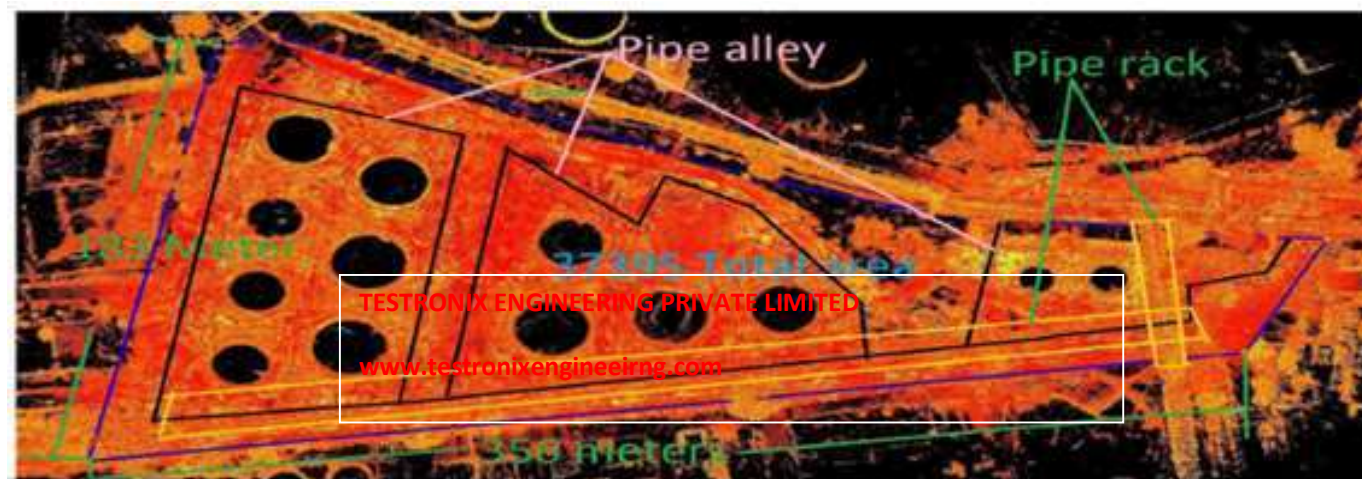
SCOPE OF WORK: 3D MODELLING

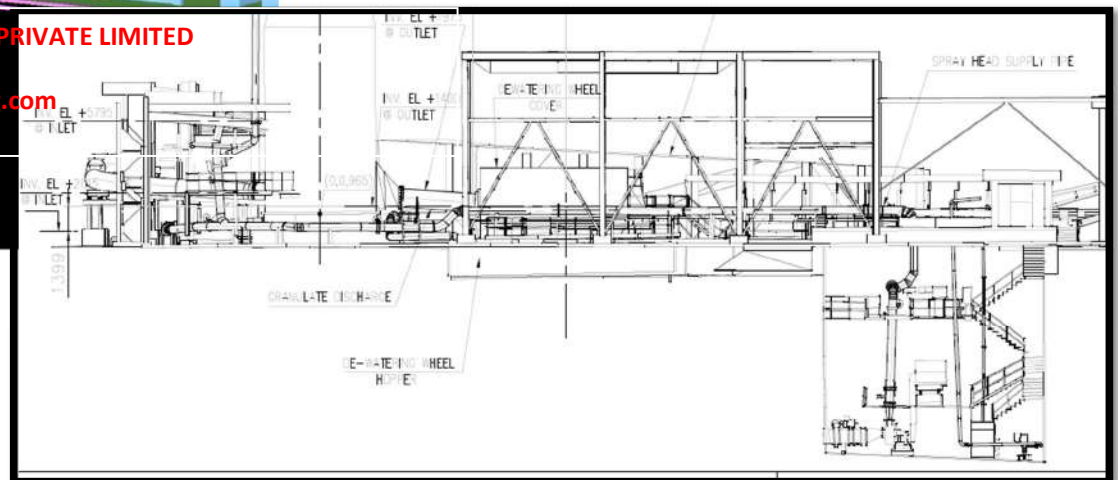
SOFTWARES USED: CYCLONE, PDMS

PROJECT LOCATION: INDIA

PROJECT DURATION: 4 MONTH

PROJECT STATUS: 100% COMPLETED







TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: CEMENT PLANT TOWERS SCANNING

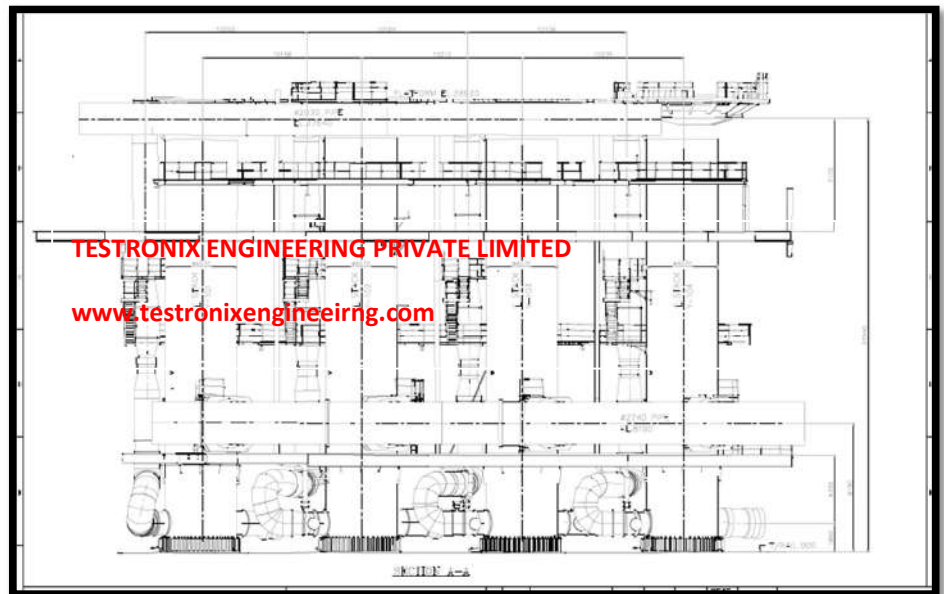
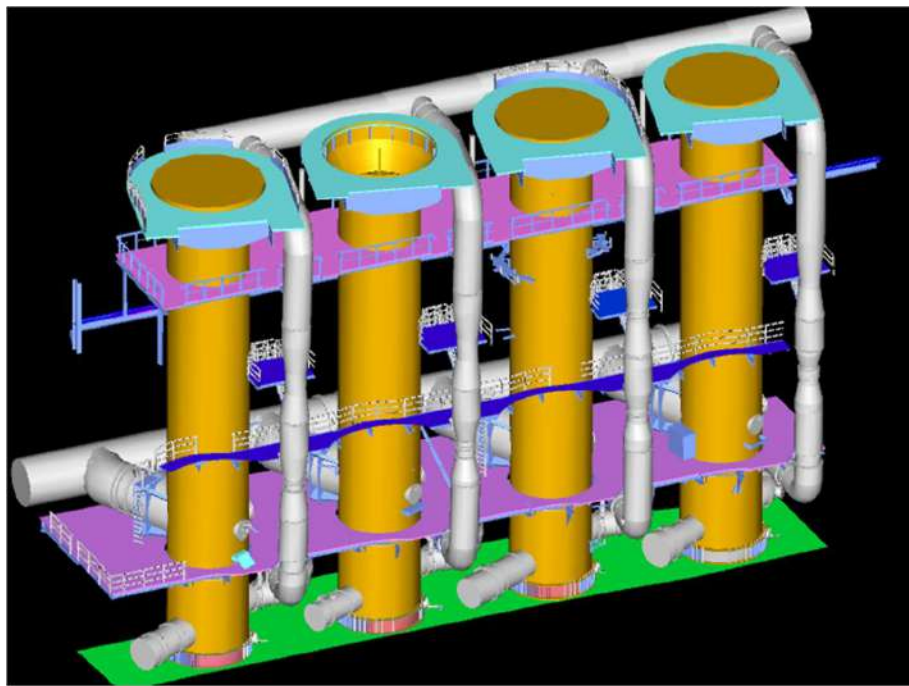
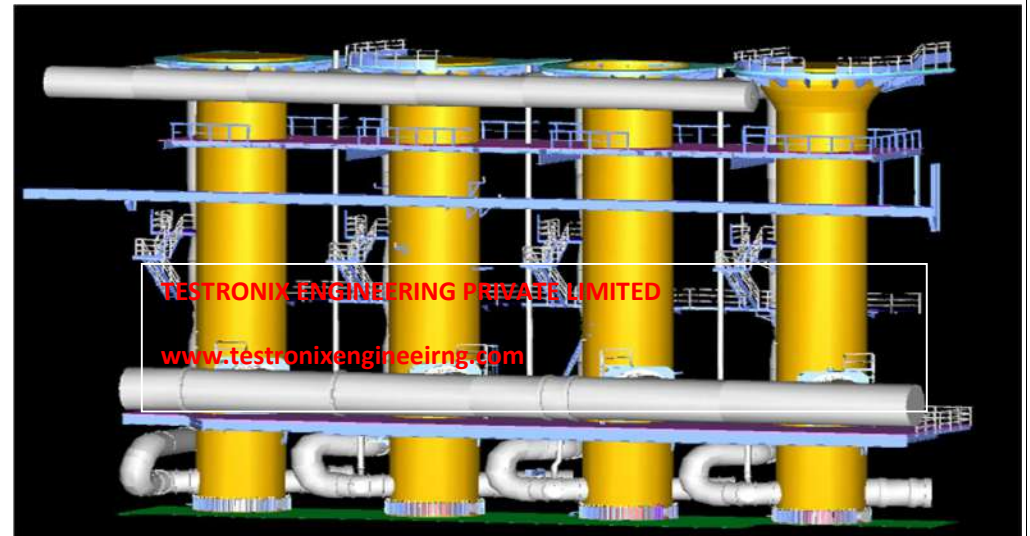
SCOPE OF WORK: 3D LASER SCANNING, 3D MODELLING, 2D DRAWINGS

SOFTWARES USED: CYCLONE, AUTOCAD

PROJECT LOCATION: INDIA

PROJECT DURATION: 15 DAYS

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: ARLA DAILRY PLANT

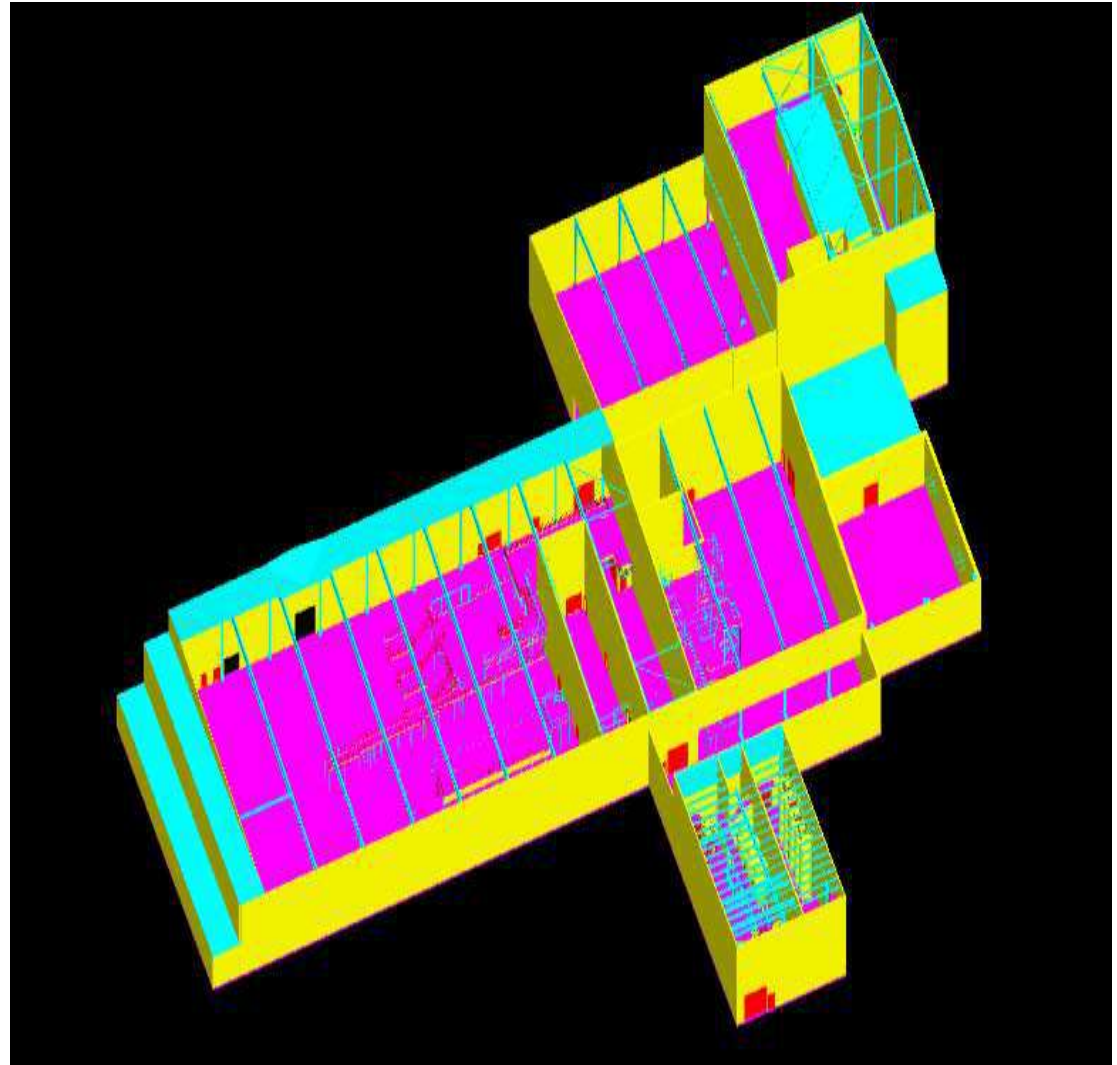
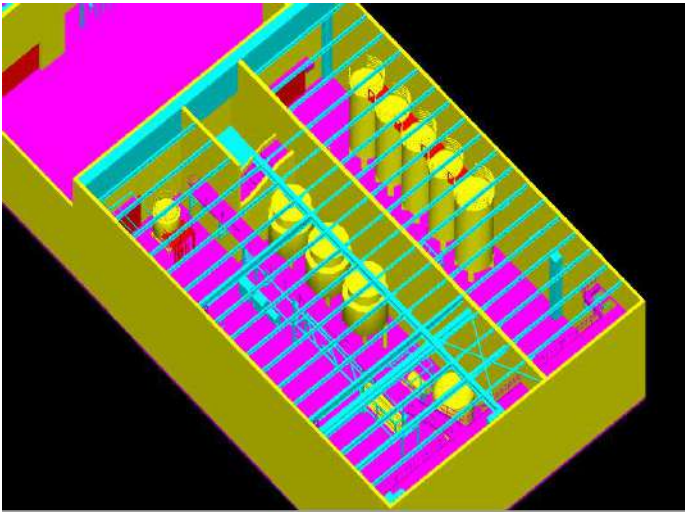
SCOPE OF WORK: 3D MODELLING, 2D DRAWINGS

SOFTWARES USED: REVIT, AUTOCAD

PROJECT LOCATION: BHAIKARAN

PROJECT DURATION: 1 MONTH

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: ARC BOILER AREA MODELING

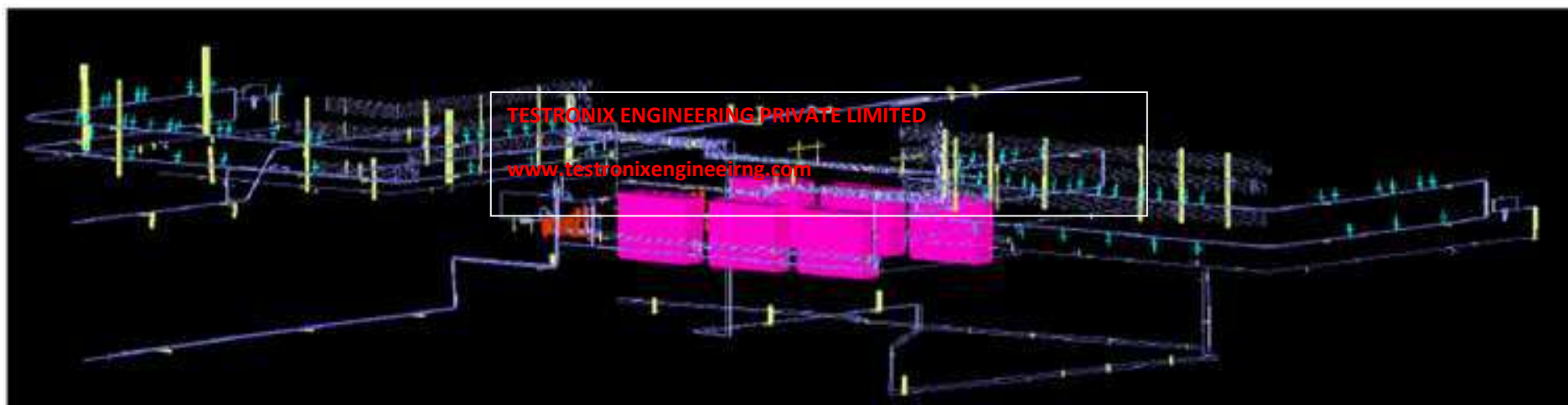
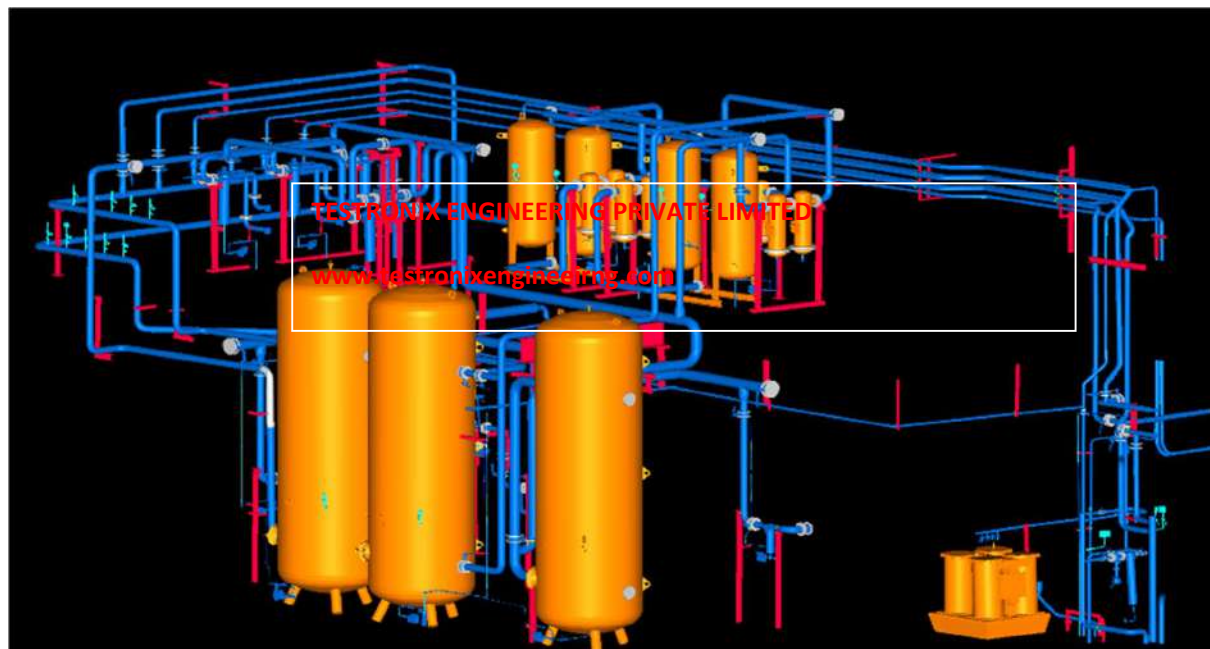
SCOPE OF WORK: 3D MODELLING

SOFTWARES USED: CYCLONE

PROJECT LOCATION: INDIA

PROJECT DURATION: 10 DAYS

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: ZLD DETAIL ENGINEERING

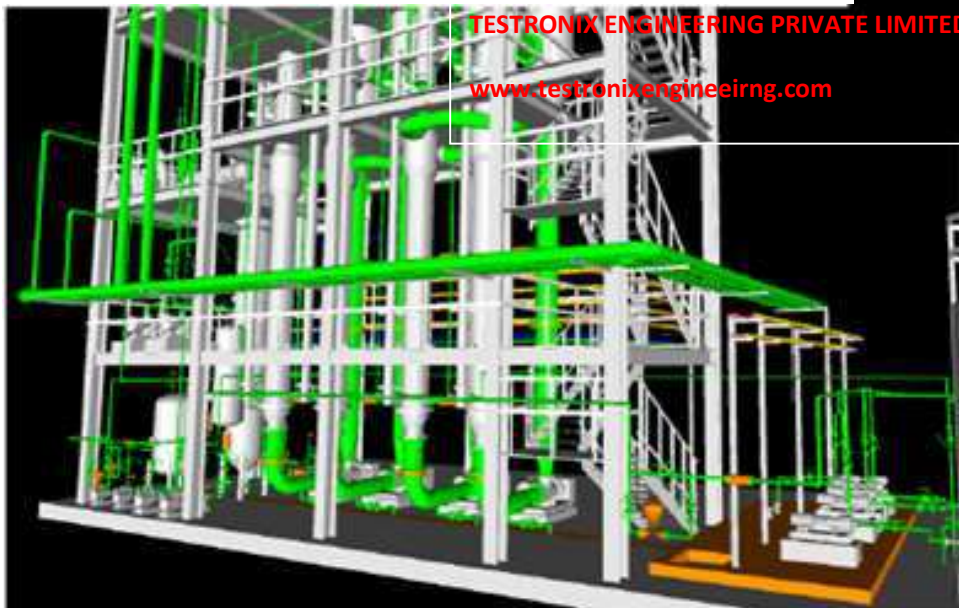
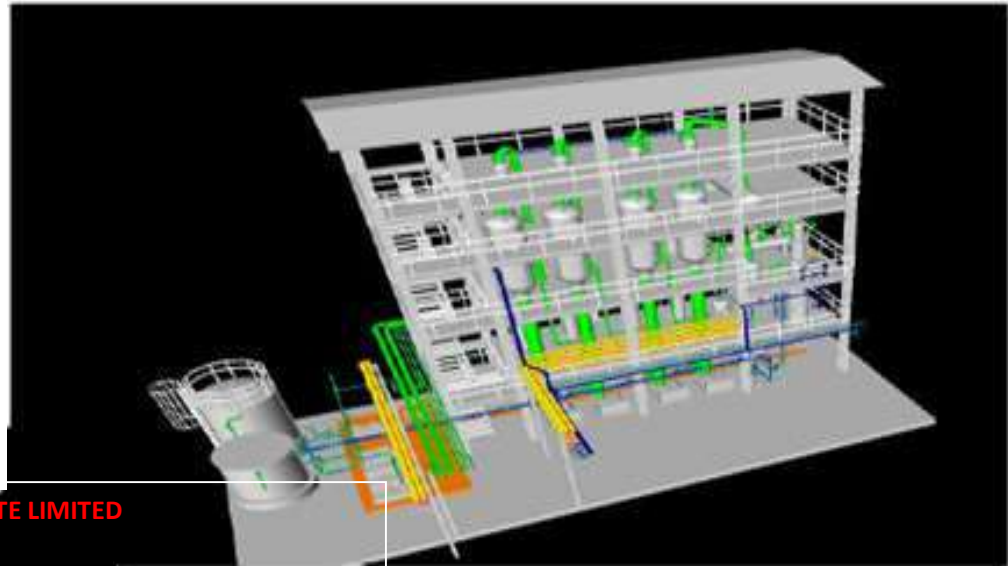
SCOPE OF WORK: DETAIL ENGINEERING & ISOMETRICS, MTO

SOFTWARES USED: PDS, MICROSTATION

PROJECT LOCATION: INDIA

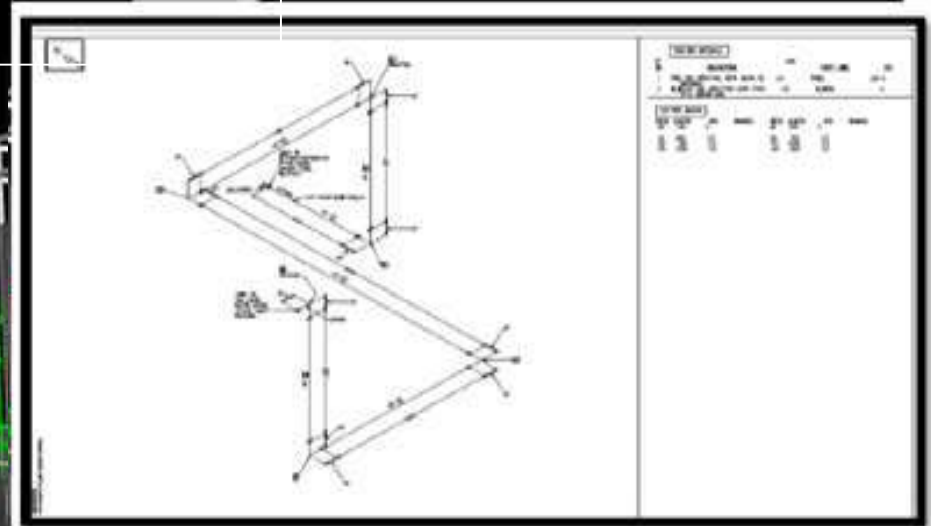
PROJECT DURATION: 1 MONTH

PROJECT STATUS: 100% COMPLETED



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TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: AS-BUILT DRAWINGS PREPARATIONS FOR SHELL TANK FARM

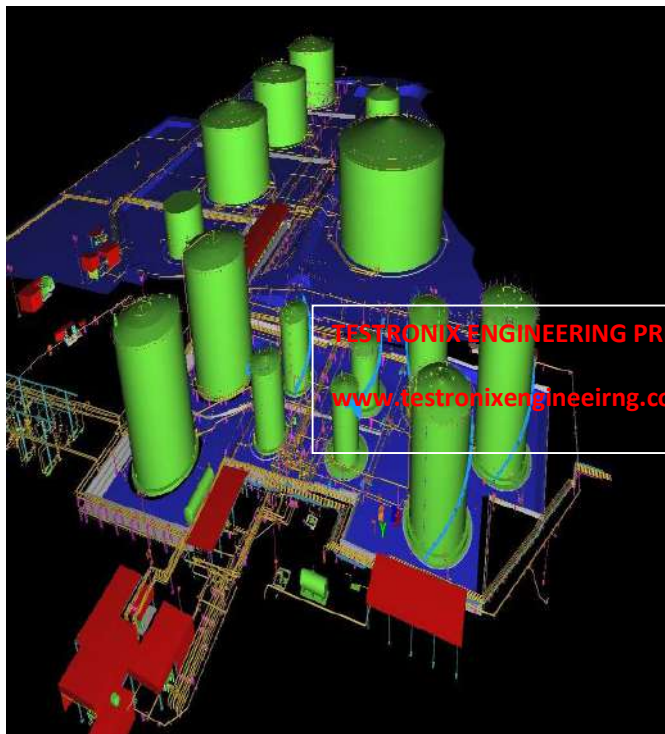
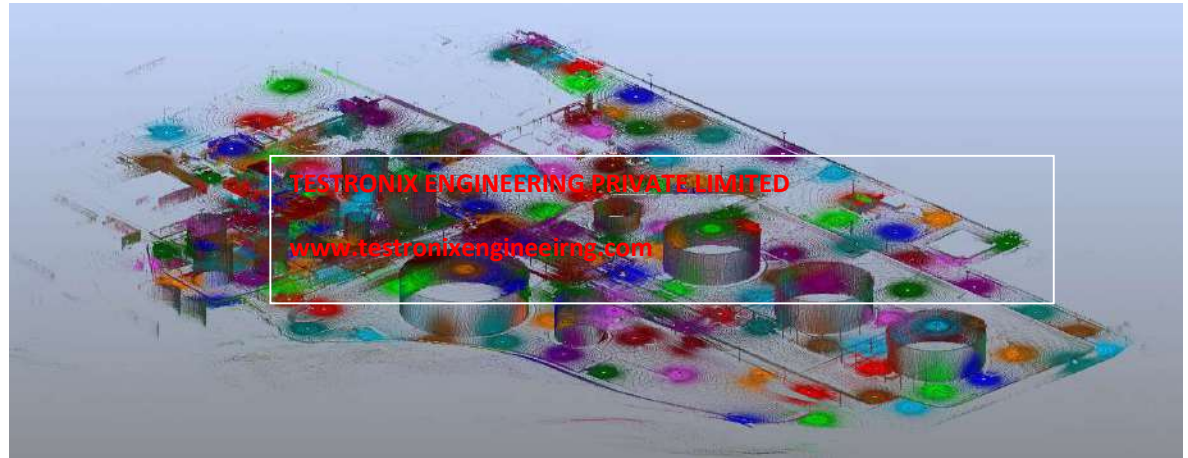
SCOPE OF WORK: 3D LASER SCANNING, 3D MODELLING, 2DDRAWINGS

PROJECT LOCATION: MUSCAT - OMAN

SOFTWARES USED: CYCLONE, AUTOCAD

PROJECT DURATION: 3 MONTHS

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: AS-BUILT 3D MODELING FOR 1.2 KM PIPERACK

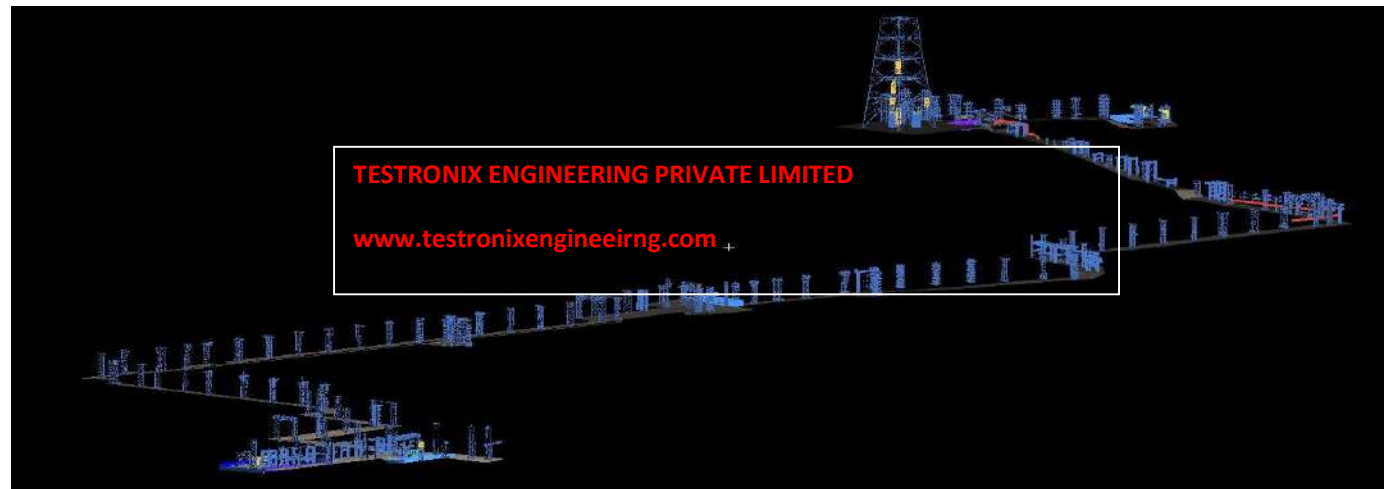
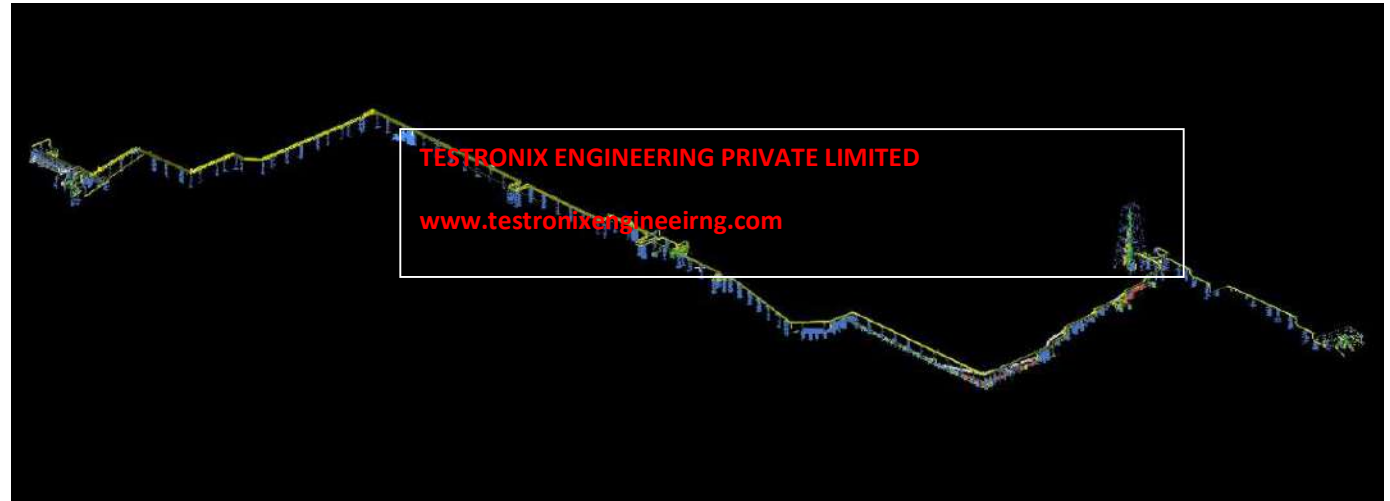
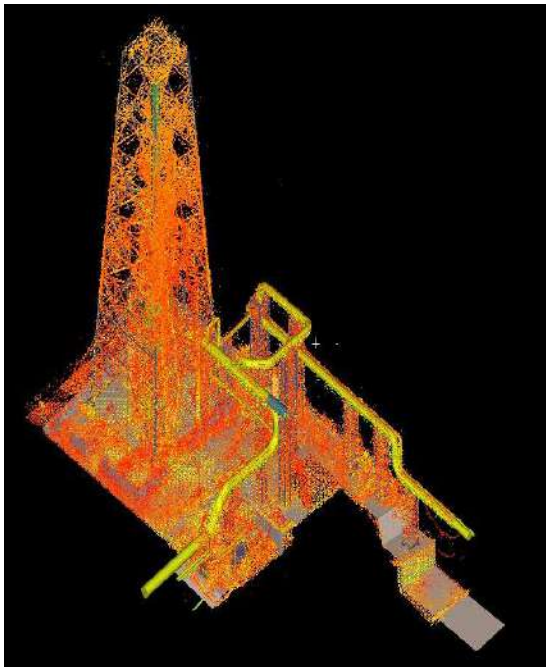
SCOPE OF WORK: 3D LASER SCANNING, 3D MODELLING

PROJECT LOCATION: INDIA

SOFTWARES USED: CYCLONE

PROJECT DURATION: 1 MONTH

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: OFFSHORE PLATFORM REVAMPING

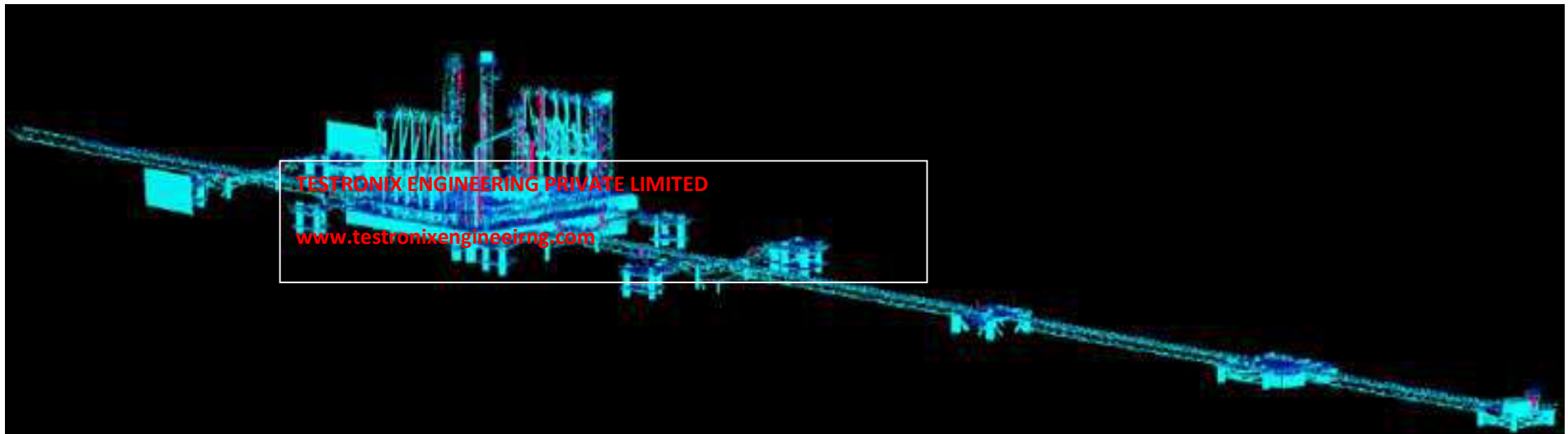
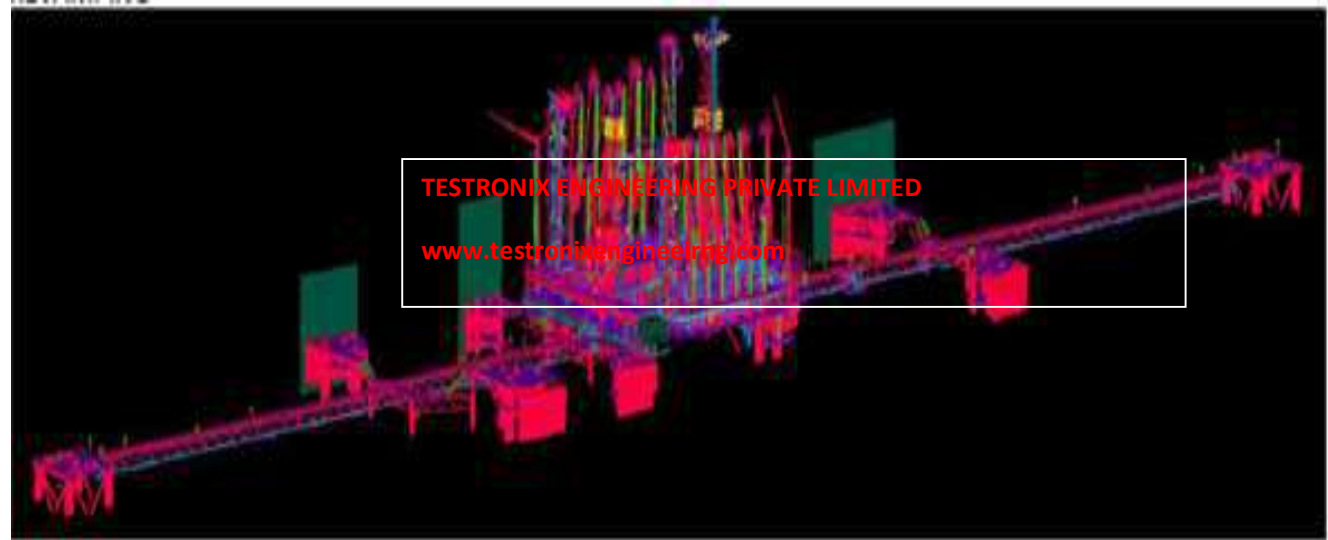
SCOPE OF WORK: 3D MODELLING

PROJECT LOCATION: SAUDI ARABIA

SOFTWARES USED: CYCLONE

PROJECT DURATION: 1 MONTH

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: 3D LASER SCANNING FOR BWTS SYSTEM

SCOPE OF WORK: 3D LASER SCANNING

PROJECT LOCATION: SAUDI ARABIA

PROJECT DURATION: 10 DAYS

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: 3D LASER SCANNING, 3D MODELING OF CHEMICAL PLANT

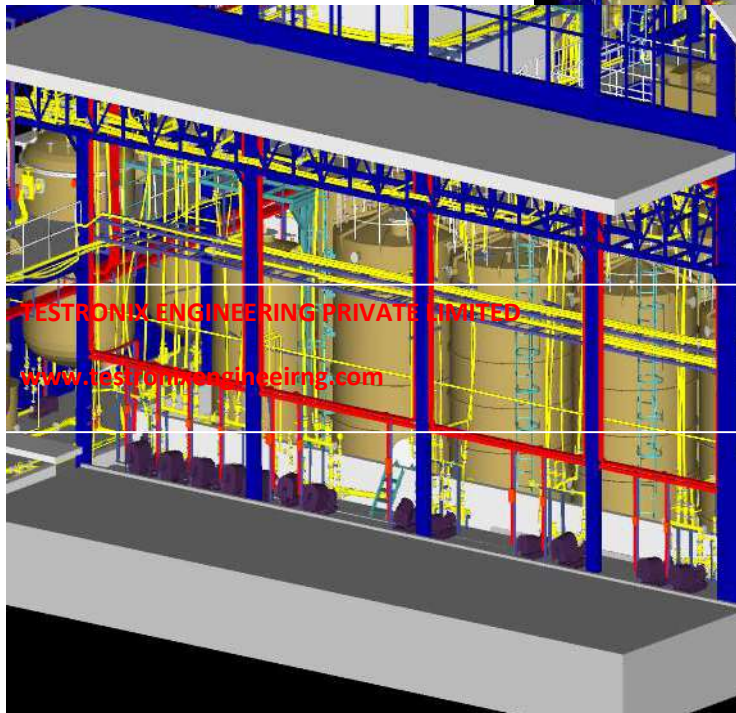
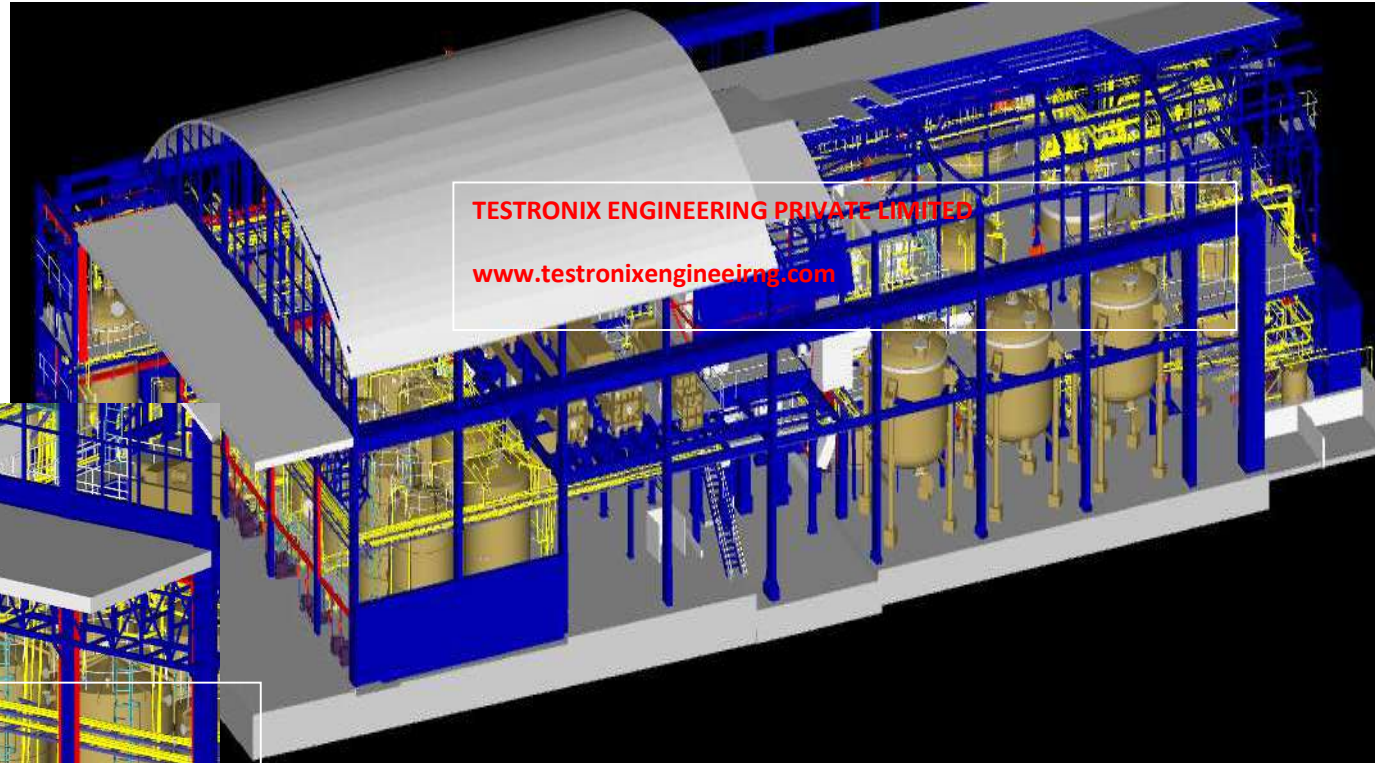
SCOPE OF WORK: 3D LASER SCANNING, 3D MODELING

PROJECT LOCATION: INDIA

SOFTWARE USED: CYCLONE, PDMS

PROJECT DURATION: 15 DAYS

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: AS-BUILT GOSP DRAWINGS (6 LOCATIONS)

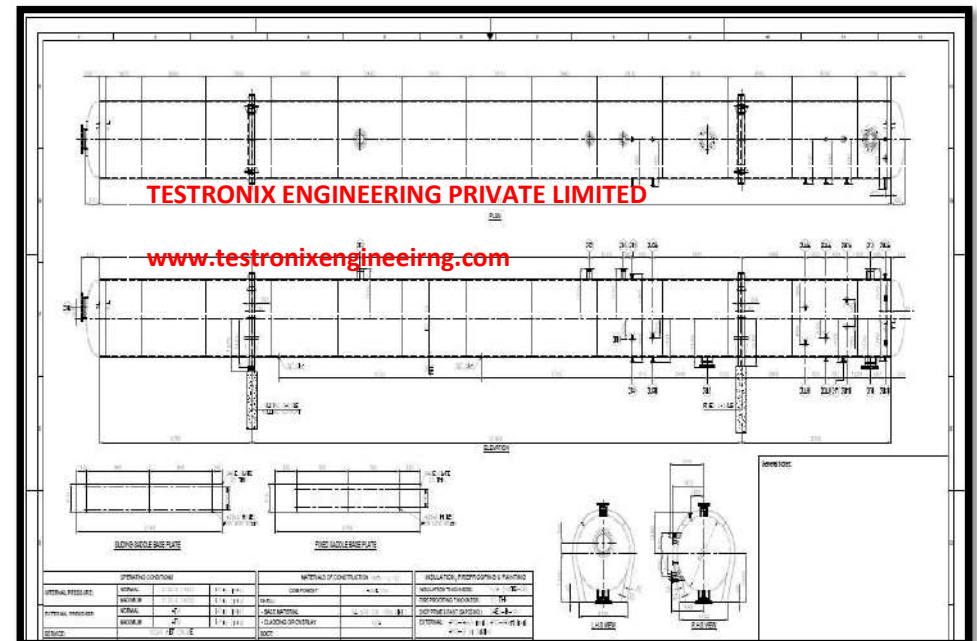
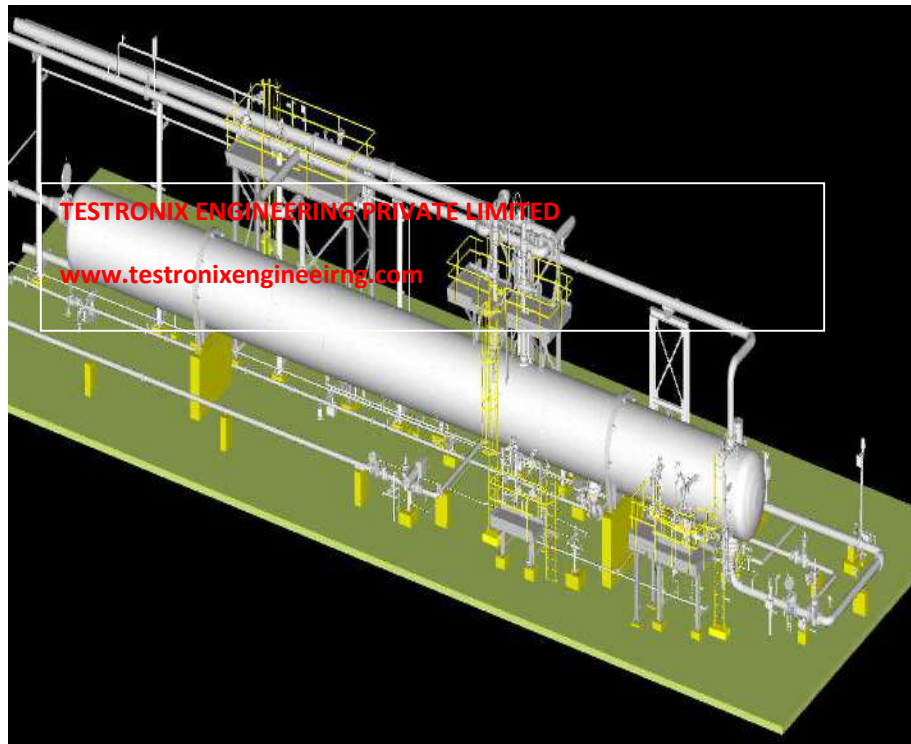
SCOPE OF WORK: 3D LASER SCANNING, 3D MODELING, 2D DRAWINGS

PROJECT LOCATION: SAUDI

SOFTWARE USED: CYCLONE, AUTOCAD

PROJECT DURATION: 20 DAYS

PROJECT STATUS: 100% COMPLETED





TESTRONIX ENGINEERING – MAJOR PROJECTS LIST

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PROJECT NAME: LASER SCANNING & AS-BUILT 3D PRIMITIVE MODELING

SCOPE OF WORK: 3D LASER SCANNING, 3D MODELING, PDMS CONVERSION

PROJECT LOCATION: INDIA

SOFTWARE USED: CYCLONE

PROJECT DURATION: 2 MONTHS

PROJECT STATUS: 100% COMPLETED

