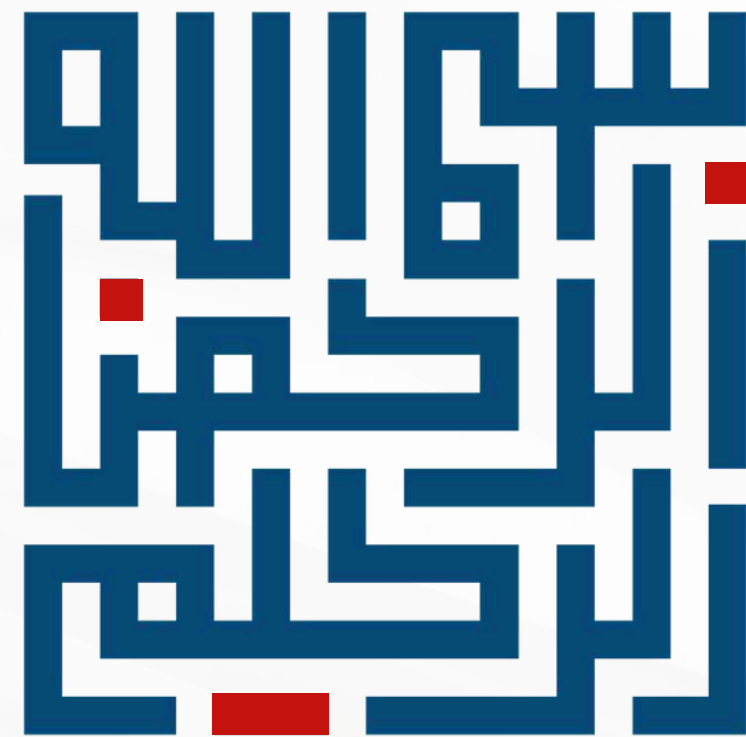


COMPANY PROFILE

Japan Engineering Consultancy

Welcome to Japan Engineering Consultants, where precision meets passion. Our team of skilled professionals is dedicated to providing comprehensive engineering services that meet the highest standards of quality and efficiency.





CONTENTS

01 [Overview](#)

02 [Vision, Mission and Values](#)

03 [Why JEC?](#)

04 [JEC Quality Message and Procedures](#)

05 [CEO Message](#)

06 [Organization Chart](#)

07 [Areas of Expertise](#)

08 [Key Services](#)

09 [Design & Detail Engineering](#)

10 [Project Management Consultancy](#)

11 [Construction Management](#)

12 [Engineering Solutions](#)

13 [Environmental Studies](#)

14 [On-Site Engineering Services](#)

15 [Photographic Impression](#)

16 [Clients and Partners](#)

17 [Locations](#)

OVERVIEW

Japan Engineering Consultants (JEC) excels in providing tailored solutions for diverse Engineering & Design Projects in the Oil & Gas and Petrochemical Industry. Our steadfast commitment to meeting customer needs drives our reliable services, while our innovative spirit shines through every project we undertake. With a well-organized structure, we ensure that the right experts are always within reach for our clients, facilitating seamless communication and efficient project delivery. Boasting over 13 years of experience and notable achievements, JEC has established itself as a front runner in the industry. Our reputation for excellence is founded on unwavering customer satisfaction and loyalty.

At JEC, we offer end-to-end solutions for the Oil & Gas sector, encompassing Design, Detail Engineering, Procurement, Project Management, Construction supervision, and Commissioning Support. Our sustained growth stems from a commitment to adopting cutting-edge technologies and providing ongoing training to our personnel, enabling us to stay abreast of the latest advancements in the field. Our departments work in perfect synergy, ensuring that our designs are not only safe and reliable but also highly effective in meeting project goals.

VISION, MISSION AND VALUES



VALUES

- TRANSPARENCY
- COMMITMENT
- RELIABILITY
- EFFICIENCY
- EFFECTIVENESS
- TEAMWORK
- INTEGRITY
- RESPECT



MISSION

OFFERING INNOVATIVE
ENGINEERING SOLUTIONS
FOR EACH PROJECT AND
IMPLEMENTING THEM IN
UNCONVENTIONAL WAYS
TO EXCEED CUSTOMER
EXPECTATIONS.



VISION

TO BE THE PREMIER
CHOICE FOR PROVIDING
ENGINEERING SOLUTIONS
IN THE KINGDOM OF
SAUDI ARABIA.

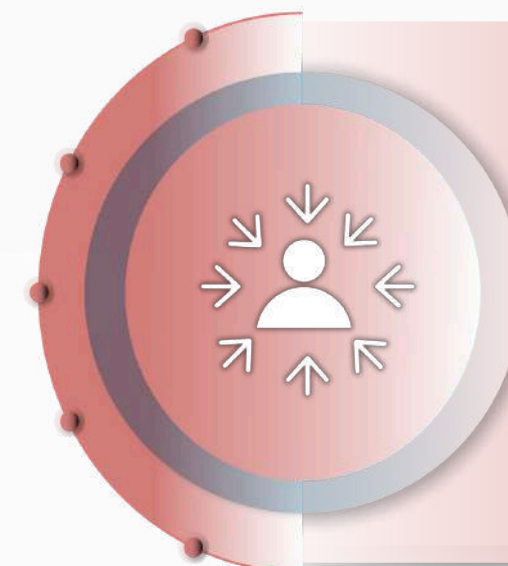
WHY JEC?

Expertise



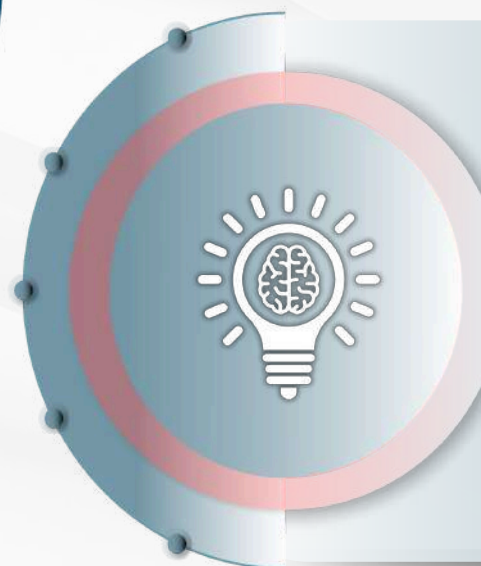
Our exceptional team of experts, each possessing extensive and profound expertise in our service domains, stands ready to assist you.

Customer focus



Your success is our ultimate goal. We pride ourselves on listening to your needs and aspirations, and providing comprehensive and effective solutions tailored to your requirements.

Creativity



Our unwavering commitment to innovation and leadership across diverse fields ensures that you benefit from the cutting-edge advancements and breakthroughs that shape our industry.

Quality commitment



At JEC, we are unwavering in our belief that quality is non-negotiable across all aspects of our services, from the initial delivery to ongoing customer support.

JEC QUALITY MESSAGE

JEC QUALITY PROCEDURES

At Japan Engineering Consultants, we are committed to delivering high -quality engineering services that meet and exceed the expectations of our clients. Our dedication to continuous improvement, innovation, and adherence to industry standards ensures the successful completion of projects in a timely and cost-effective manner. We strive to provide exceptional value to our clients by maintaining a culture of excellence, integrity, and professionalism in all aspects of our work. Our goal is to build long-lasting relationships based on trust, reliability, and customer satisfaction, making us the preferred choice for engineering solutions in the Kingdom of Saudi Arabia.

DOCUMENT
CONTROL
PROCEDURE

CONTROL OF
QUALITY RECORDS
PROCEDURE &
CHEMICAL PLANTS

CORRECTIVE &
PREVENTIVE
ACTION
PROCEDURE

INTERNAL QUALITY
AUDIT PROCEDURE

CONTROL OF
NONCONFORMING
PRODUCTS
PROCEDURE

HUMAN RESOURCE
& TRAINING
PROCEDURE

MANAGEMENT
REVIEW PROCEDURE

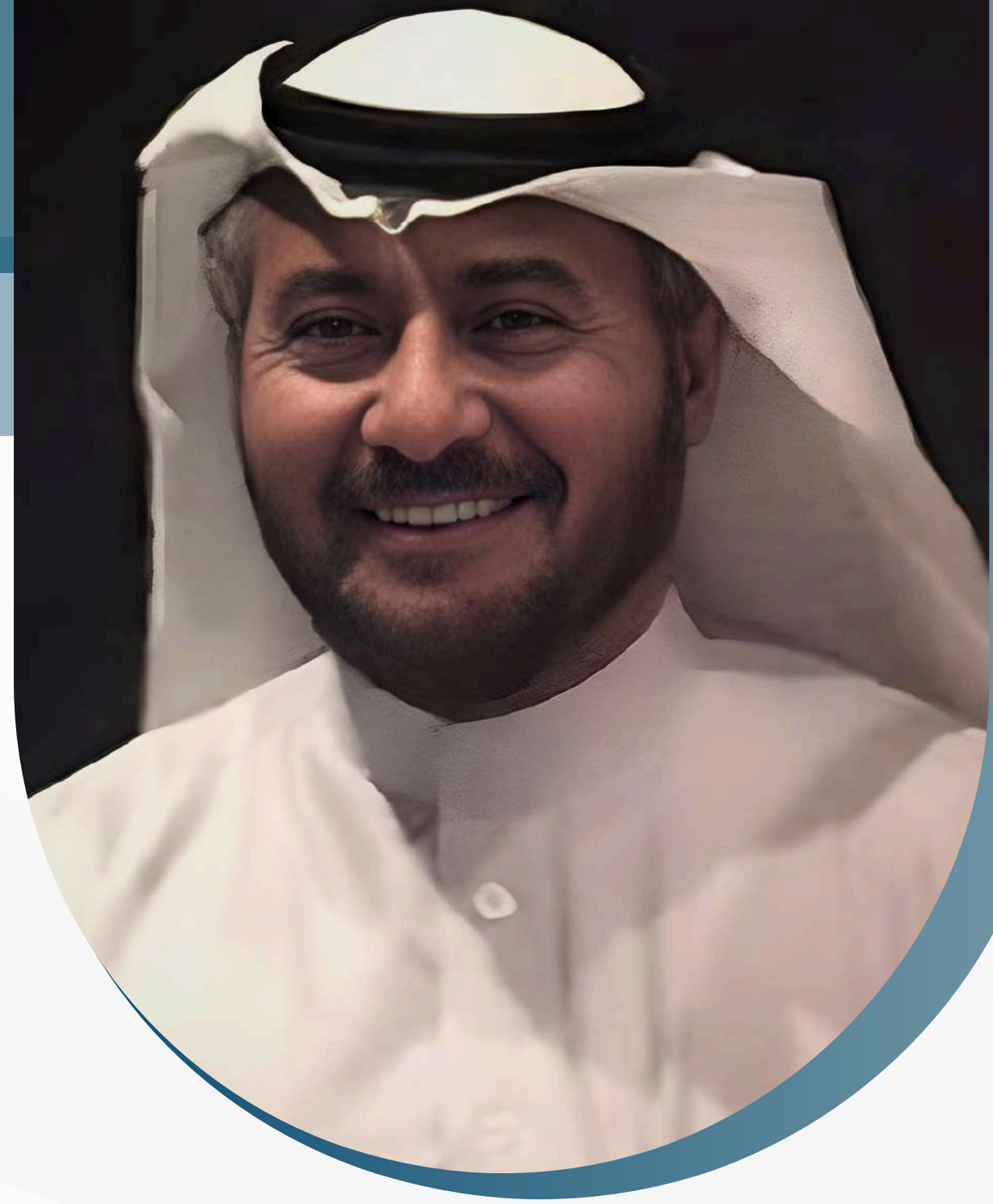
SYSTEM
MAINTENANCE &
BACKUP
PROCEDURE

PURCHASING
PROCEDURE

CEO MESSAGE

Eng. Majed Albeaji

Japan Engineering Consultants is dedicated to providing world-class design solutions for the oil & gas, petrochemical, and chemical industries in Saudi Arabia and beyond. With a focus on technical excellence, reliability, and sustainability, our experienced team uses cutting-edge technology and industry best practices to develop customized solutions that enhance performance, efficiency, and safety. We are committed to supporting the growth of these sectors in Saudi Arabia by delivering high-quality, compliant designs that meet clients' strategic objectives. Our long-term relationships are built on trust, transparency, and exceptional customer service. As we expand, we remain committed to quality, safety, and sustainability, positioning ourselves as essential partners for innovative design solutions in these critical industries. Thank you for considering Japan Engineering Consultants as your trusted partner in shaping the future of your operations.



8+

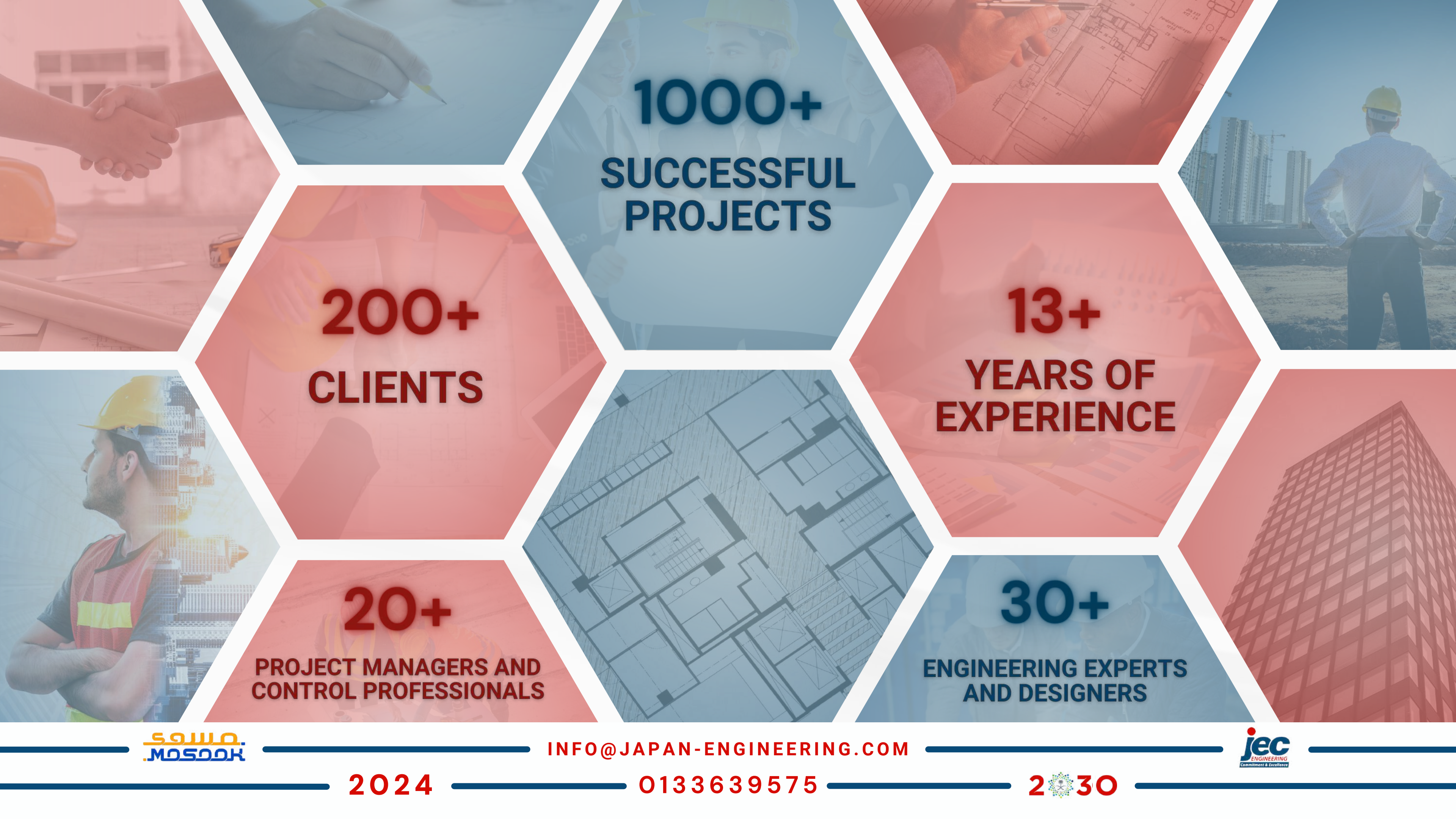
DIVERSE
FIELDS

3+

PROFESSIONAL
CERTIFICATIONS

30+

YEARS OF
EXPERIENCE



1000+
SUCCESSFUL
PROJECTS

200+
CLIENTS

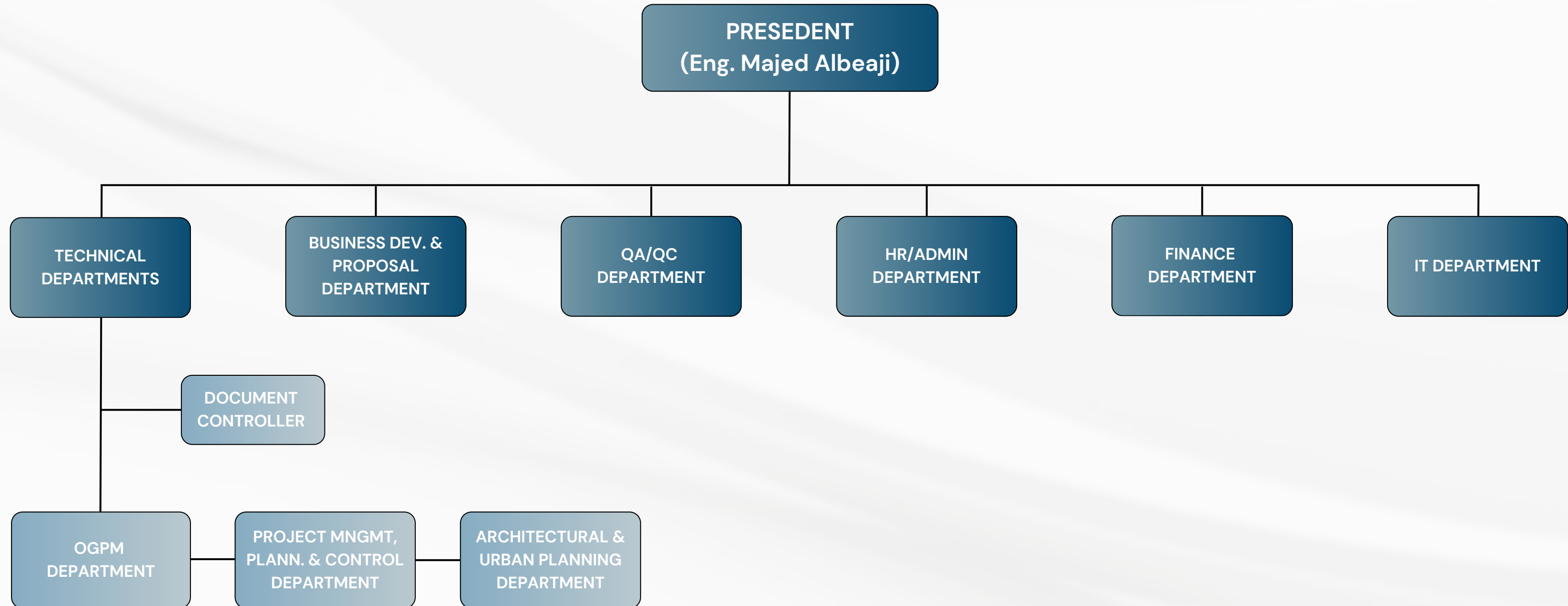
13+
YEARS OF
EXPERIENCE

20+
PROJECT MANAGERS AND
CONTROL PROFESSIONALS

30+
ENGINEERING EXPERTS
AND DESIGNERS

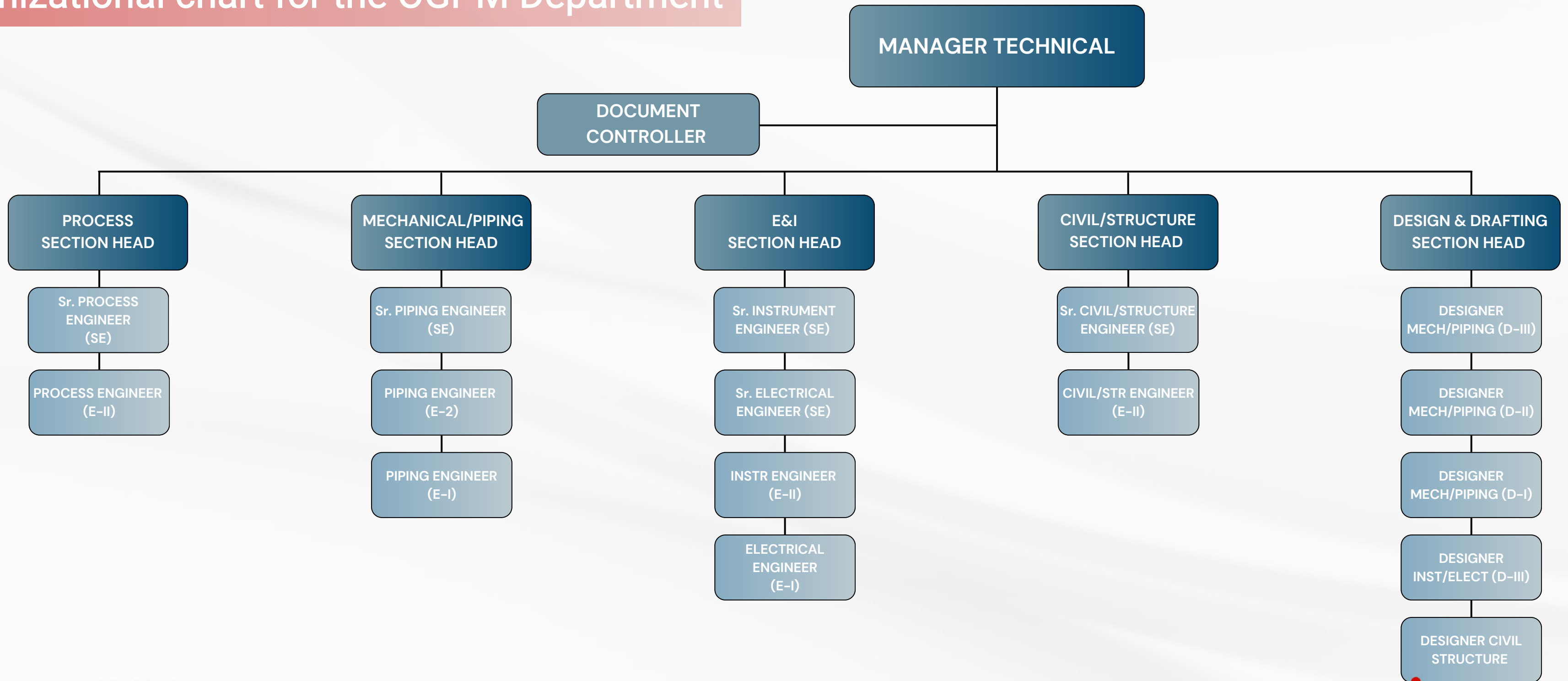
ENGINEERING DEPARTMENT ORGANIZATION CHART

organizational chart for management



ENGINEERING DEPARTMENT ORGANIZATION CHART

organizational chart for the OGPM Department



AREAS OF EXPERTISE

OIL & GAS

PETROCHEMICAL &
CHEMICAL PLANTS

BULK LIQUID
STORAGE
TERMINALS

STORAGE
FACILITIES

SKID DESIGN

PROCESS
STUDIES

PIPING
ANALYSIS

STRUCTURAL
ANALYSIS

SAFETY &
FIRE FIGHTING

MECHANICAL &
ROTARY EQUIPMENT

INTEGRATED TANK
FARMS (OFFSITE &
UTILITIES)

KEY SERVICES



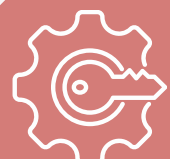
Design & Detailed Engineering



Engineering Solutions



Project Management Consultancy



Environmental Studies



Construction Management



On-Site Engineering Services

DESIGN & DETAIL ENGINEERING

1. Basic or Front-End Engineering Design (FEED)

- ⚙️ Design Basis.
- ⚙️ Conceptual process studies (material balances, process flow sheets, P&IDs Development).
- ⚙️ Preliminary plot plans.
- ⚙️ Evolving Piping and Instrument Diagrams.
- ⚙️ Sizing of main equipment and process specifications.
- ⚙️ Description of control and safety devices.
- ⚙️ Consolidating Process Package initiated by an external process licensor.
- ⚙️ Mechanical data sheets of the main equipment, based on international codes and standards.
- ⚙️ Thermal rating of heat exchangers, vessels & other equipment.
- ⚙️ Elaboration of the main piping, instrument, electrical and civil works layouts.
- ⚙️ Preparation of tender packages & technical requisitions for the main equipment or long lead items.
- ⚙️ Cost Estimation +/- 20%.

DESIGN & DETAIL ENGINEERING



2. Detail Engineering Design (DED)

- ⚙️ Development of PFD's & P&ID's.
- ⚙️ Equipment Sizing.
- ⚙️ Piping Stress & Surge Analysis.
- ⚙️ Development of detailed Piping Plans & Drawings, including Isometrics.
- ⚙️ Design of Piping Support System.
- ⚙️ Design Calculations of Foundations.
- ⚙️ Structural Stability studies & Calculations.
- ⚙️ Electrical Load Studies.
- ⚙️ Development of detailed drawings related to instrumentation and electrical facilities.
- ⚙️ Development of detailed drawings related to civil & structure works.
- ⚙️ Material Specifications for Procurement.
- ⚙️ Technical Evaluation of Vendors.

DESIGN & DETAIL ENGINEERING



List of Software's & Expertise

Process

HYSYS, HTFS, AFT-Fathom,
AFT-Arrow, KORF.

Civil/Structural

STADD Pro, ANSYS,
PROSTEEL.

Mechanical/Piping

CADWorx, CAESAR-II.

Electrical

E-TAP, CABSYS, DILUX.

Instrumentation & Control

Smart plant, INTOOLS,
INSTRUCALC.

Drafting

MICROSTATION, AutoCAD.

PROJECT MANAGEMENT CONSULTANCY (PMC)



⚙️ **Integration Management.**

⚙️ **Scope Management.**

⚙️ **Time Management.**

⚙️ **Cost Management.**

⚙️ **Quality Management.**

⚙️ **Human Resource Management.**

⚙️ **Communication Management.**

⚙️ **EH & S Management.**

⚙️ **Change Management.**

⚙️ **Risk Management.**

⚙️ **Procurement, Contract and Claim Management.**

⚙️ **Documentation Control.**

⚙️ **Construction close out.**

⚙️ **As-Built Documents.**

⚙️ **Commercial Closeout.**

CONSTRUCTION MANAGEMENT

- Site Organization.
- Technical Sources Mobilization & Control.
- Temporary Facilities & Utilities.
- Construction Schedule Control.
- Construction Equipment.
- Construction Procedure Planning.
- Procurement & Subcontracting.
- Quality Control & Assurance.
- Safety & Security.
- Material Control & Warehousing.
- Cost Control.
- Document Control.
- Inspection Services.
- Pre-Commissioning.

ENGINEERING SOLUTIONS

1.PROCESS

- ⚙ **Process Simulation.**
- ⚙ **Heat and material balance calculations.**
- ⚙ **Flare Network Studies.**
- ⚙ **Hydraulic analysis, line sizing and relief valve sizing.**
- ⚙ **Design of process equipment.**
- ⚙ **Development of Process Flow Diagrams (PFDs) and equipment data sheets.**
- ⚙ **Development of Process and Instrumentation Diagrams (P&IDs).**
- ⚙ **Safety and Hazards and Operability (HAZOP) reviews.**
- ⚙ **Conceptual/Feasibilities studies of plants.**
- ⚙ **Surge Analysis.**
- ⚙ **CFD-Computational Flow Dynamics.**
- ⚙ **Development of PFD's & P&ID's.**

ENGINEERING SOLUTIONS



2.PIPING

- ⚙️ Static analysis.
- ⚙️ Stress analysis of Cross-Country pipelines.
- ⚙️ Dynamic analysis.
- ⚙️ Equipment analysis.
- ⚙️ Static equipment's i.e. Pressure vessels, reactors.
- ⚙️ Rotating equipment's i.e. Turbines, Pumps, Compressors.
- ⚙️ Laser scanning of parts and "as-builting" services.

3.MECHANICAL

- ⚙️ Design of static and rotating equipment such as pumps, vessels, tanks, heat exchangers, reactors, columns and agitators.
- ⚙️ heat exchanger setting plans.
- ⚙️ Finite element analysis.

ENGINEERING SOLUTIONS

4.CIVIL/STRUCTURE

- ⚙️ Structural analysis and design.
- ⚙️ Adequacy of existing structures.
- ⚙️ Foundation and reinforced concrete analysis and design.
- ⚙️ Structural verifications of rigging studies.
- ⚙️ Design of Blast resistant building and structures.
- ⚙️ Building risk assessment (BRA).
- ⚙️ Technical evaluations of the structures and buildings.
- ⚙️ Design of storm water systems.

5.ELECTRICAL

- ⚙️ ETAP Studies (Network Analysis).
- ⚙️ Relay coordination Study.
- ⚙️ Short Circuit and motor starting study (Dynamic and Statics).
- ⚙️ Arc Flash & Load Flow Study.
- ⚙️ High Voltage Transmission line analysis and design including Sag & tension.
- ⚙️ High Voltage Grid/Substation design.
- ⚙️ Illumination survey.

ENGINEERING SOLUTIONS

6. INSTRUMENTATION & CONTROL SYSTEMS

- ❗ **Complete Control System design and architecture.**
- ❗ **Distributed Control System (DCS).**
- ❗ **Programmable Logic Controller (PLC).**
- ❗ **Supervisory Control and Data Acquisition (SCADA) design and specification.**
- ❗ **SIL Studies.**

ENVIRONMENTAL STUDIES

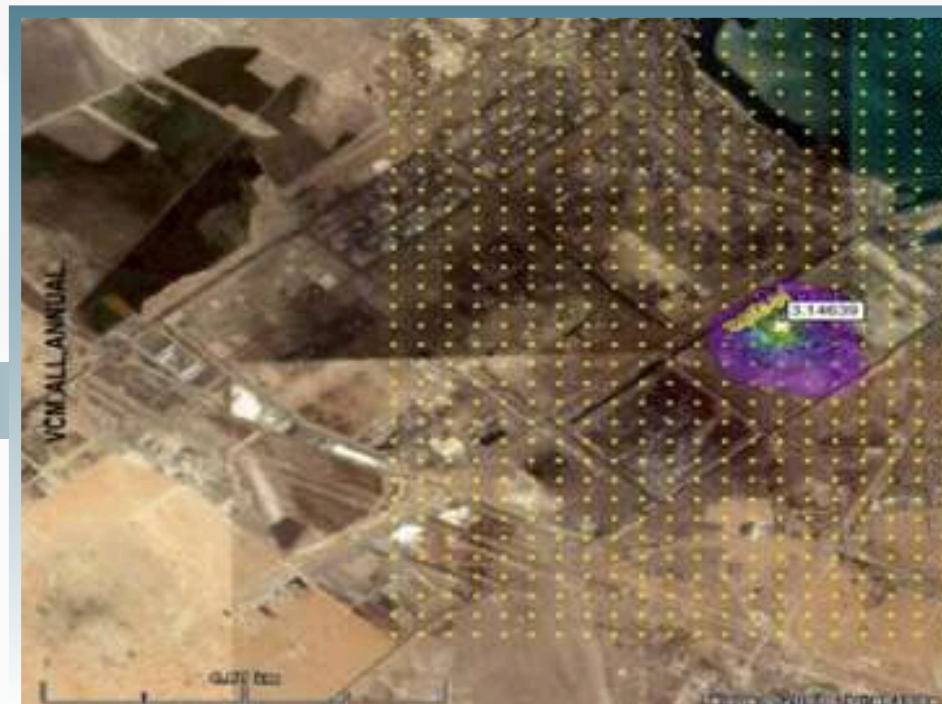
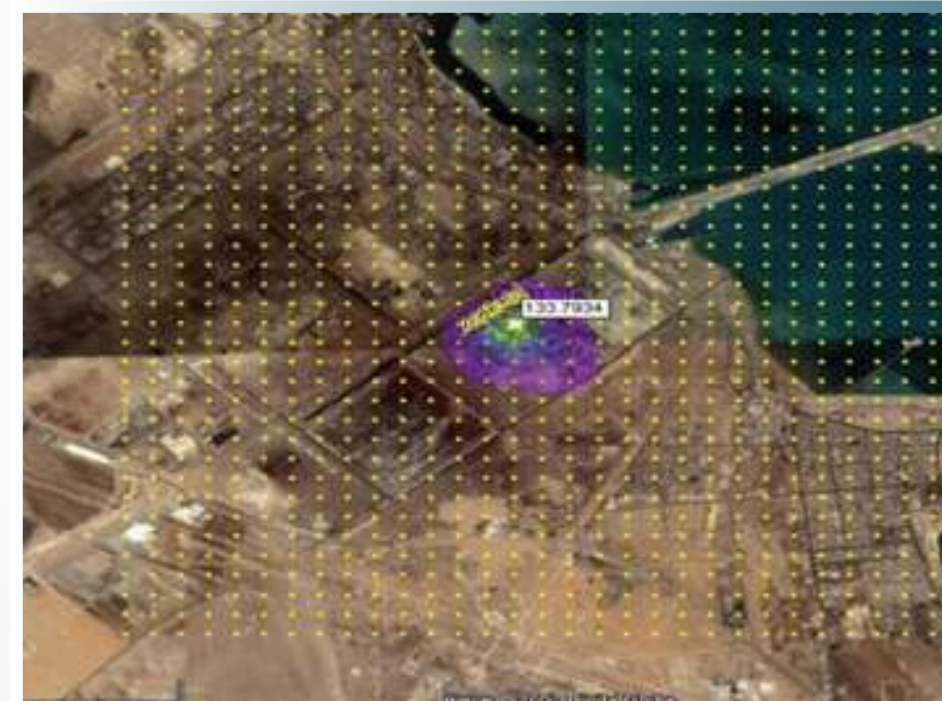
ON-SITE ENGINEERING SERVICES

- ⚙️ Fugitive Emission Monitoring (FEMS).
 - ⚙️ Noise Surveys.
 - ⚙️ Environmental Information Reports (EIR).
 - ⚙️ Environmental Impact Assessment (EIA).
 - ⚙️ Thermal & Acoustic Studies.
 - ⚙️ Feasibility Studies.
- ⚙️ Render broad-based technical manpower consultancy.
 - ⚙️ Offering specialist assistance.
 - ⚙️ Providing professional services.
 - ⚙️ Offering flexibility and quality within a cost-effective framework to our clients.
 - ⚙️ Support the ongoing and upcoming Industrial projects.
 - ⚙️ Providing onsite technical solutions.

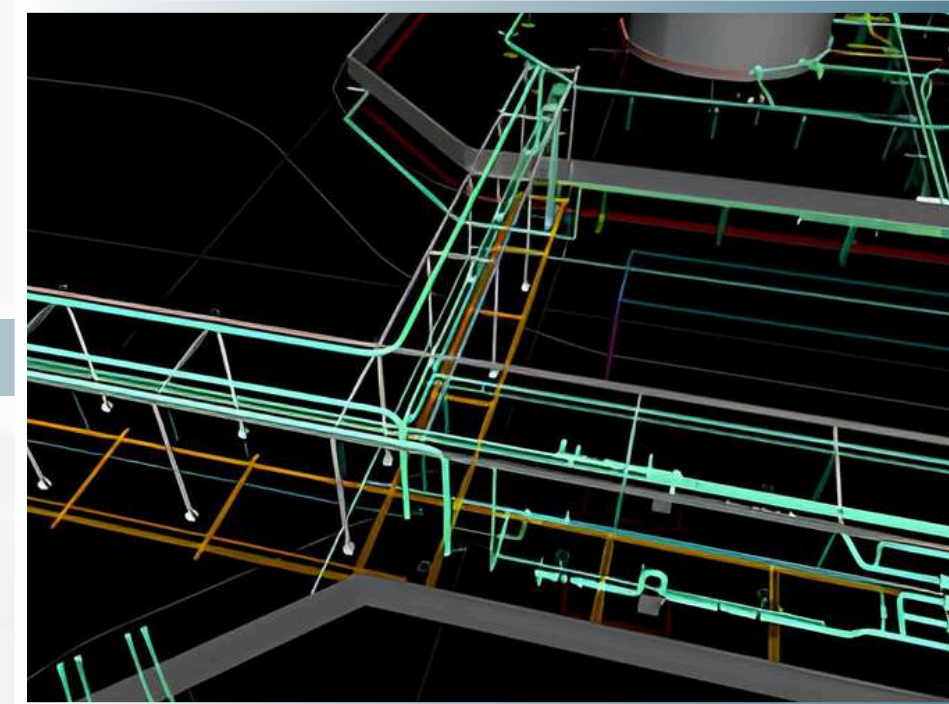
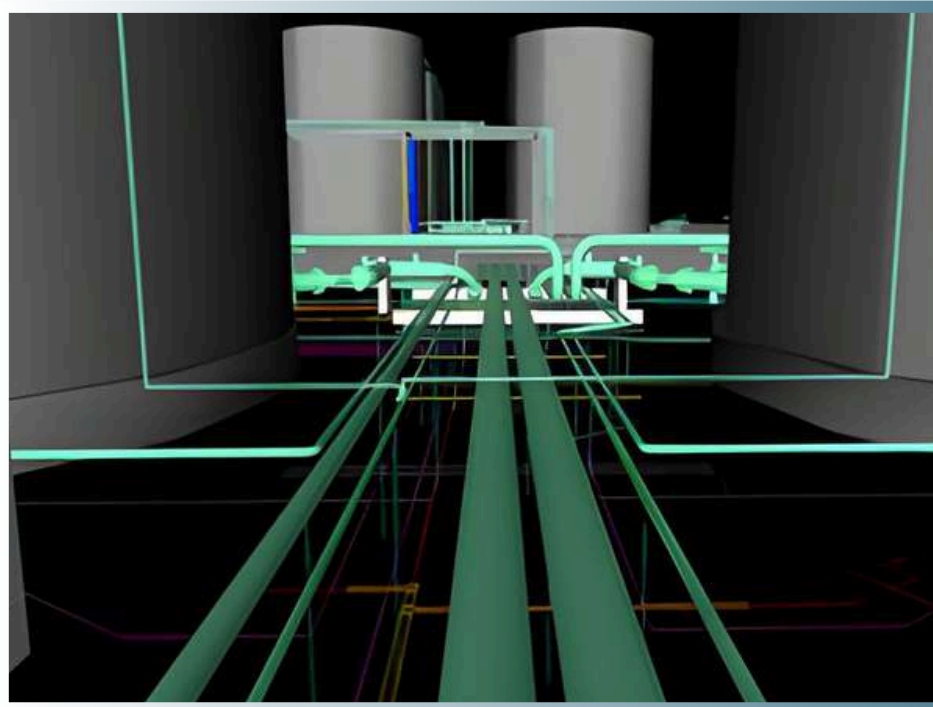
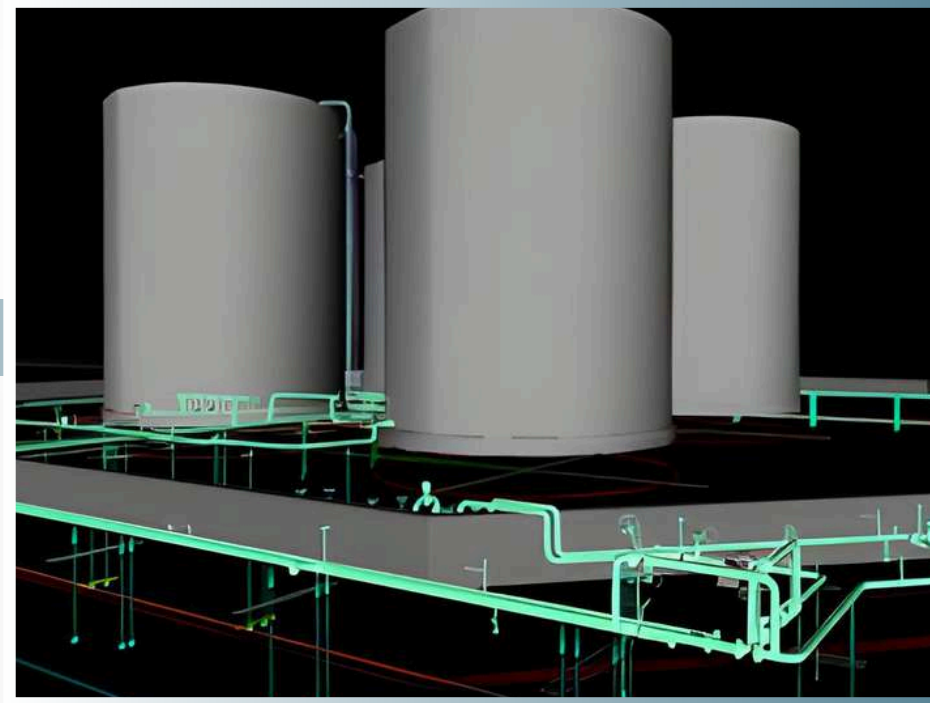
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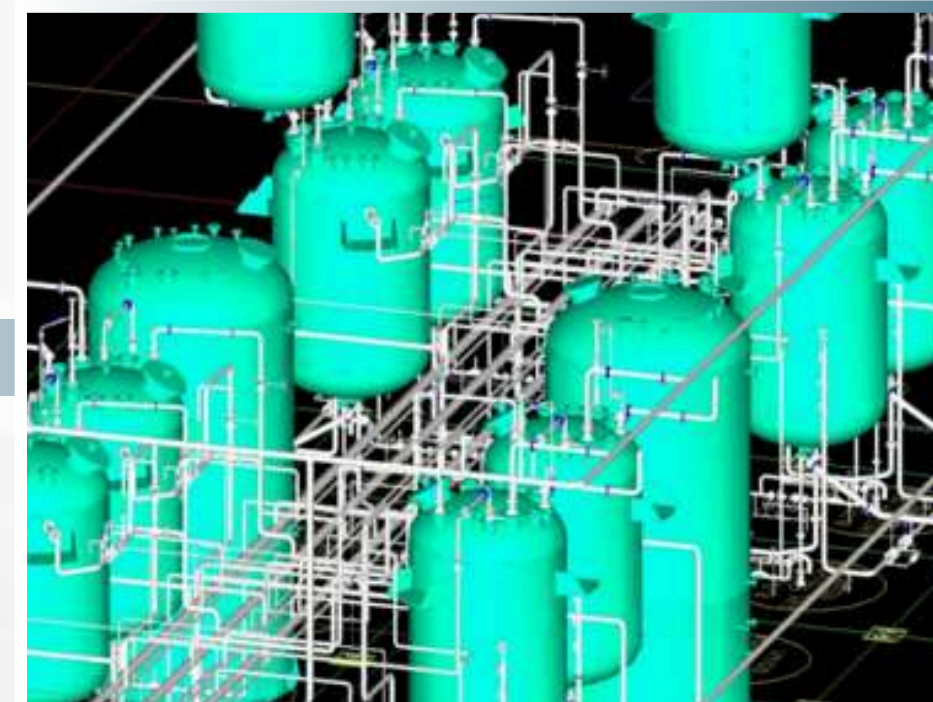
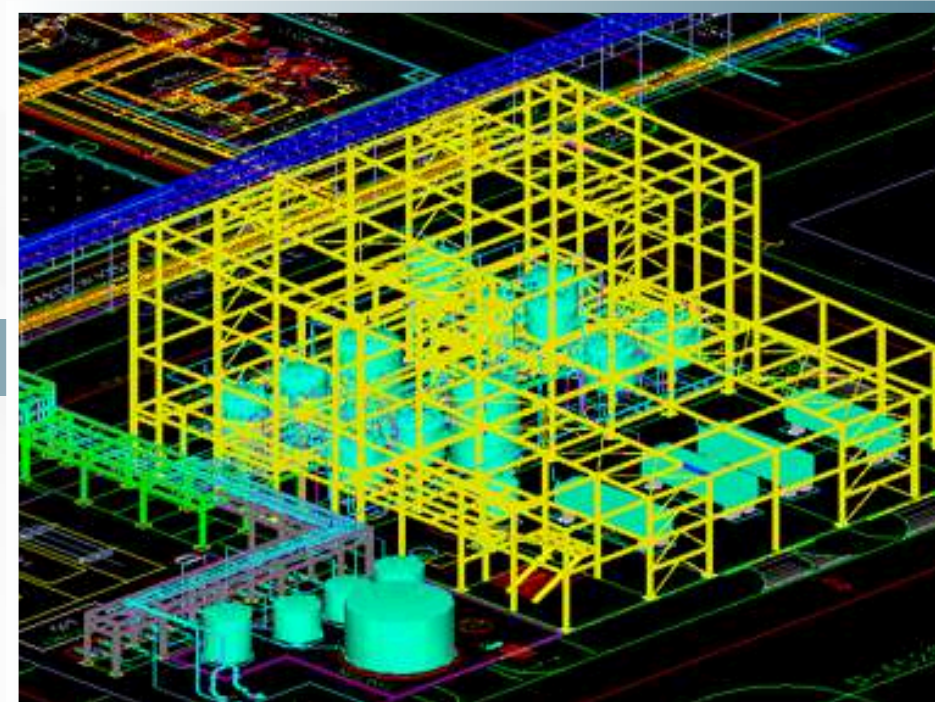
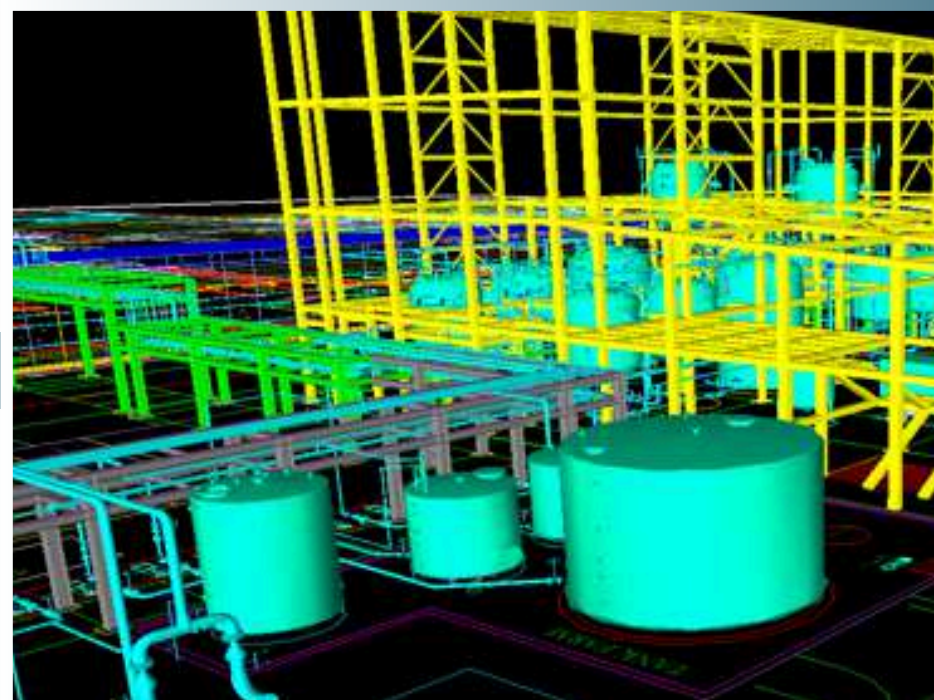
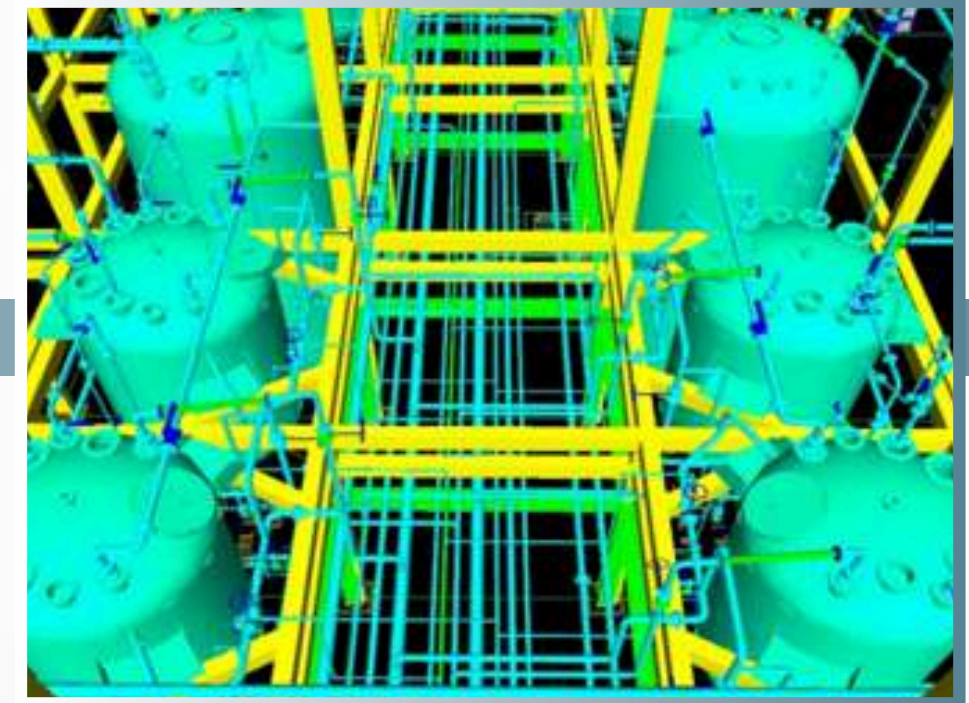
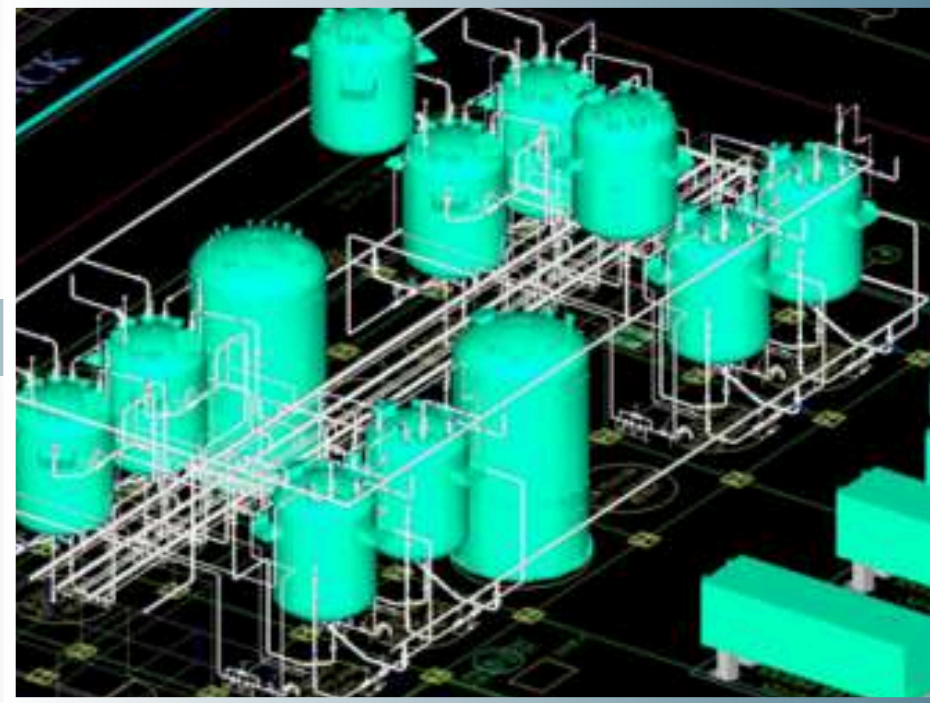
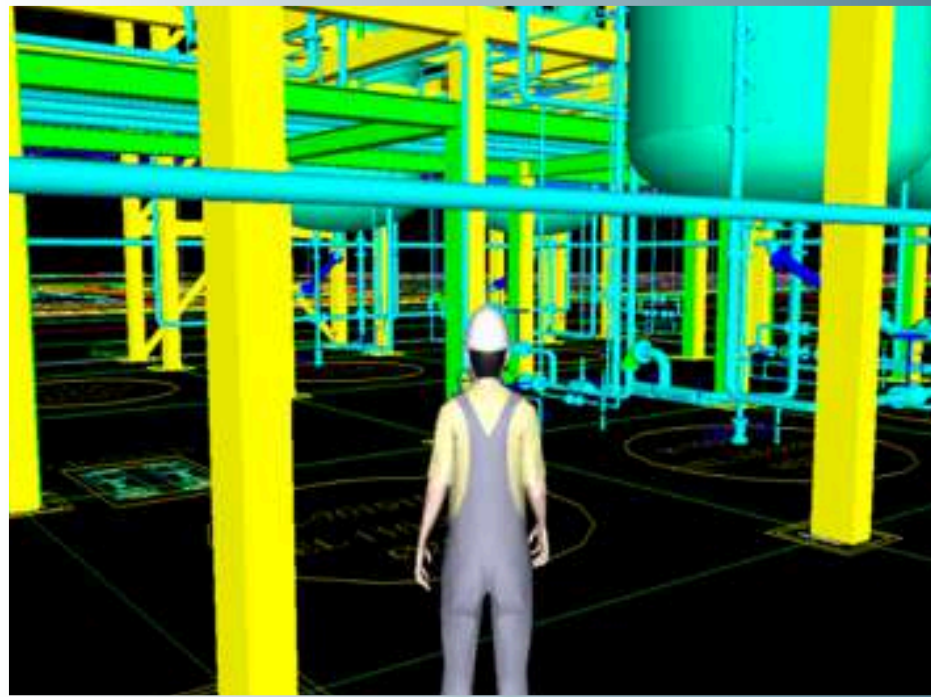
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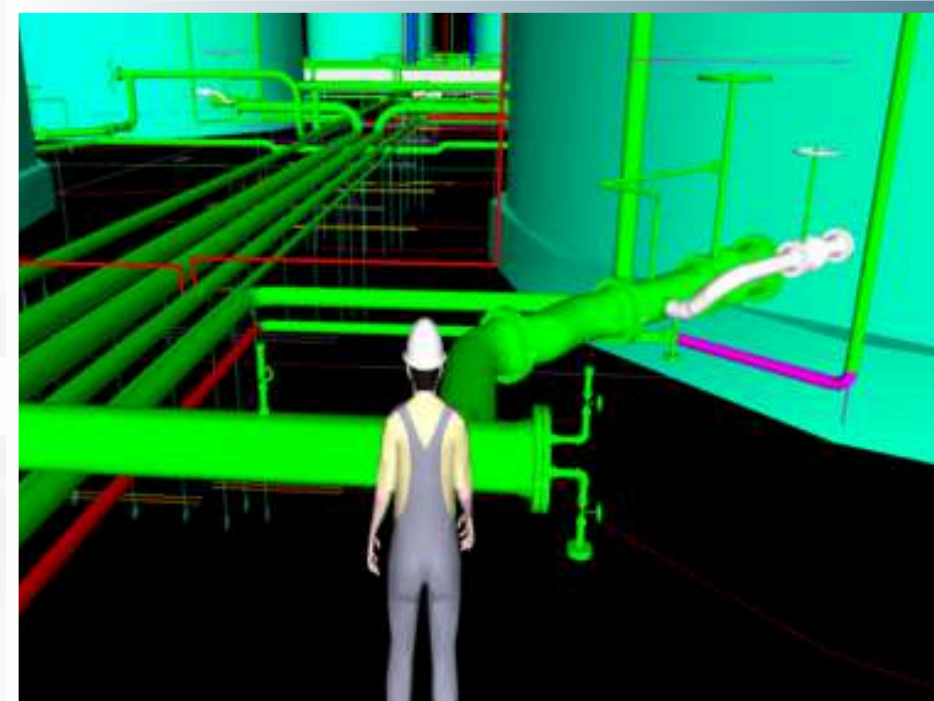
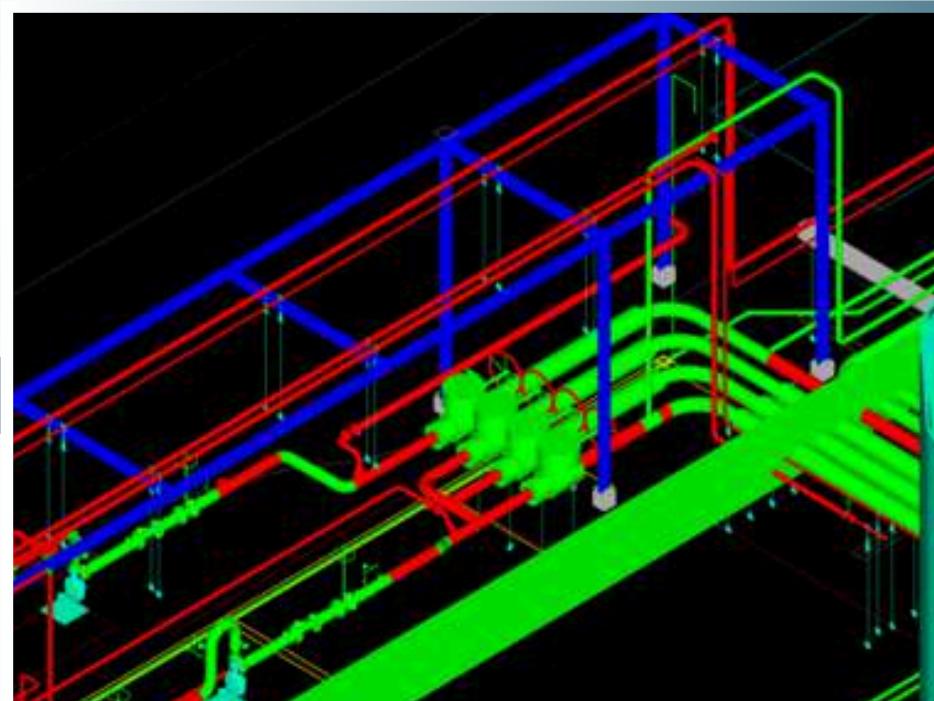
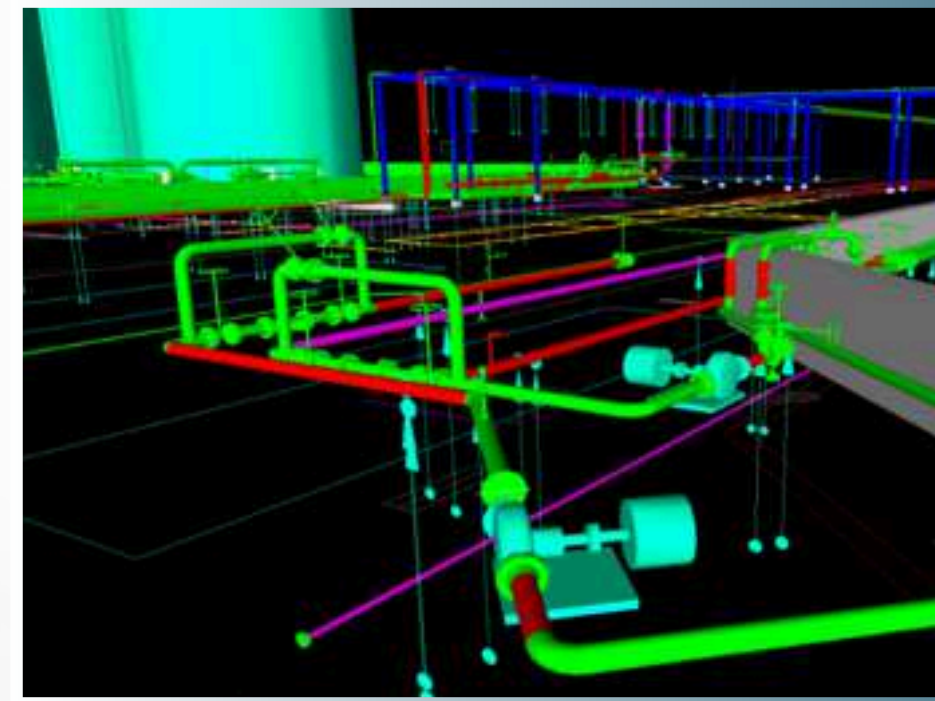
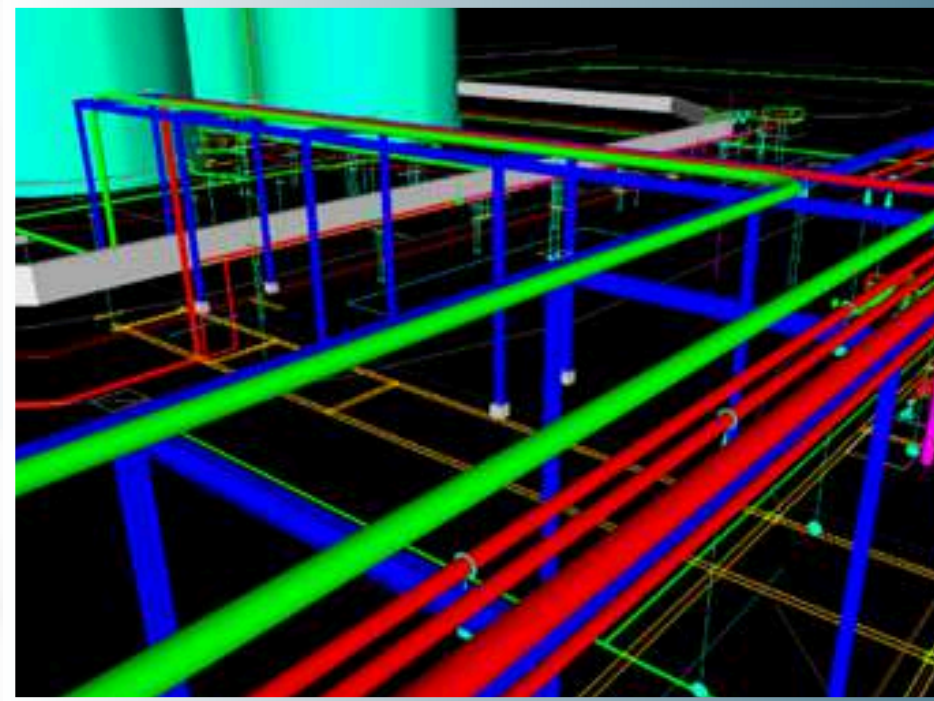
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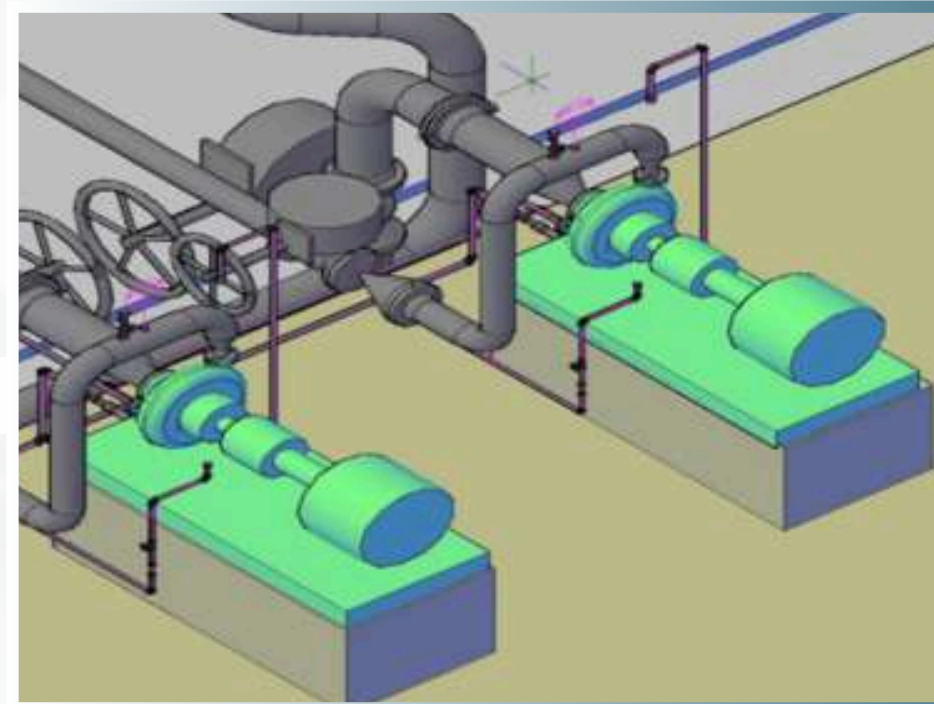
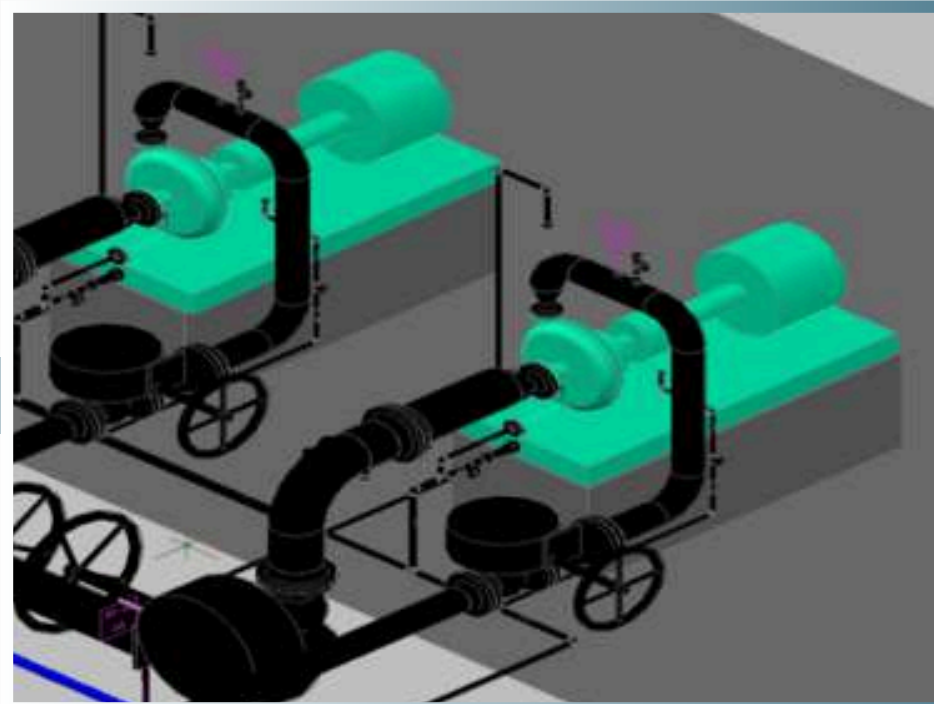
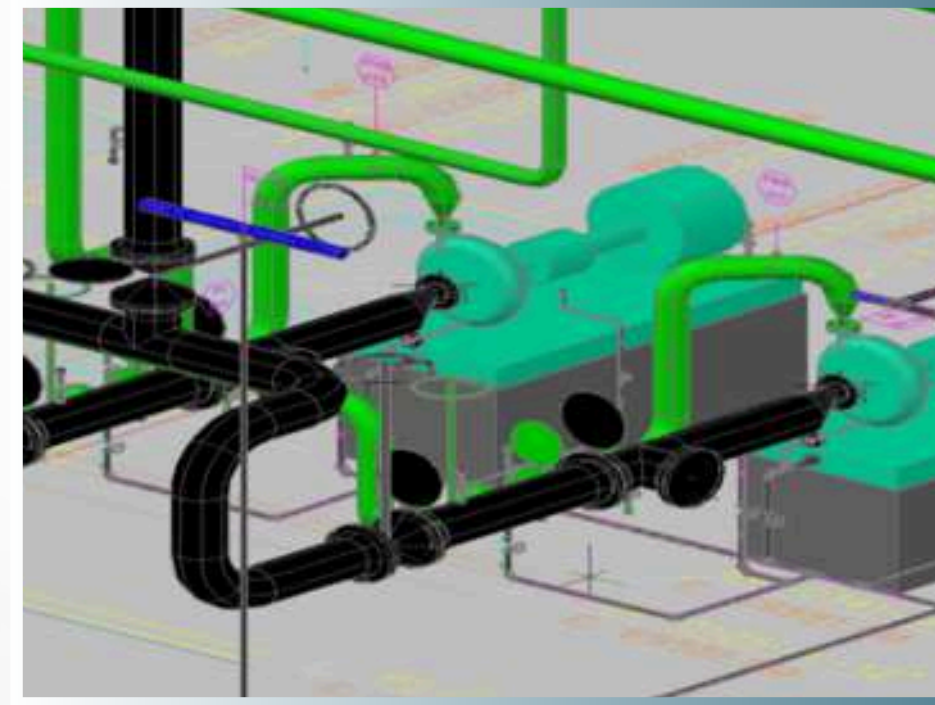
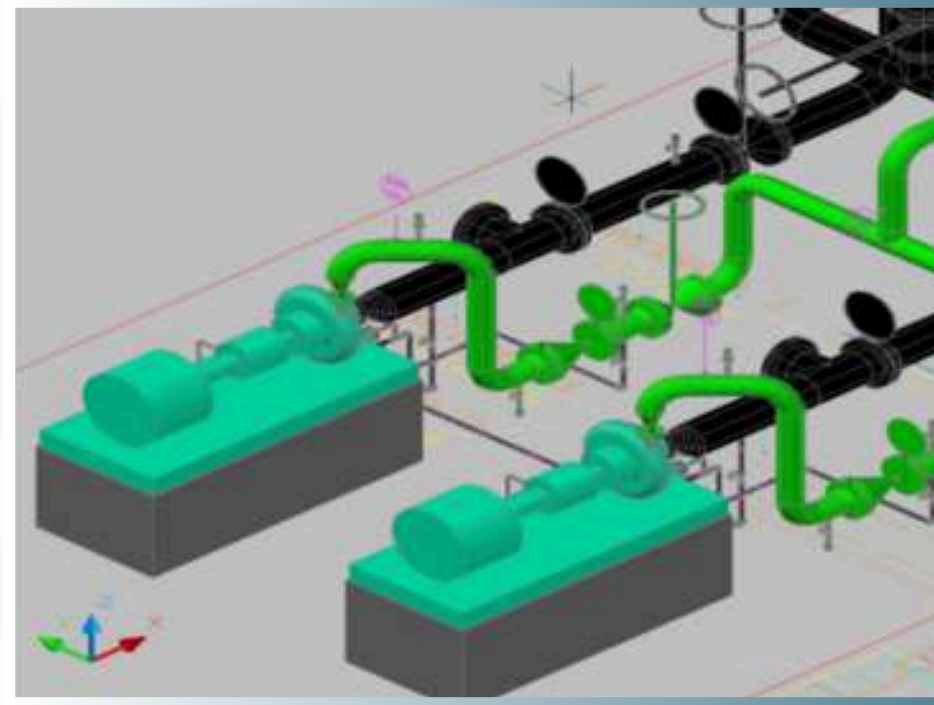
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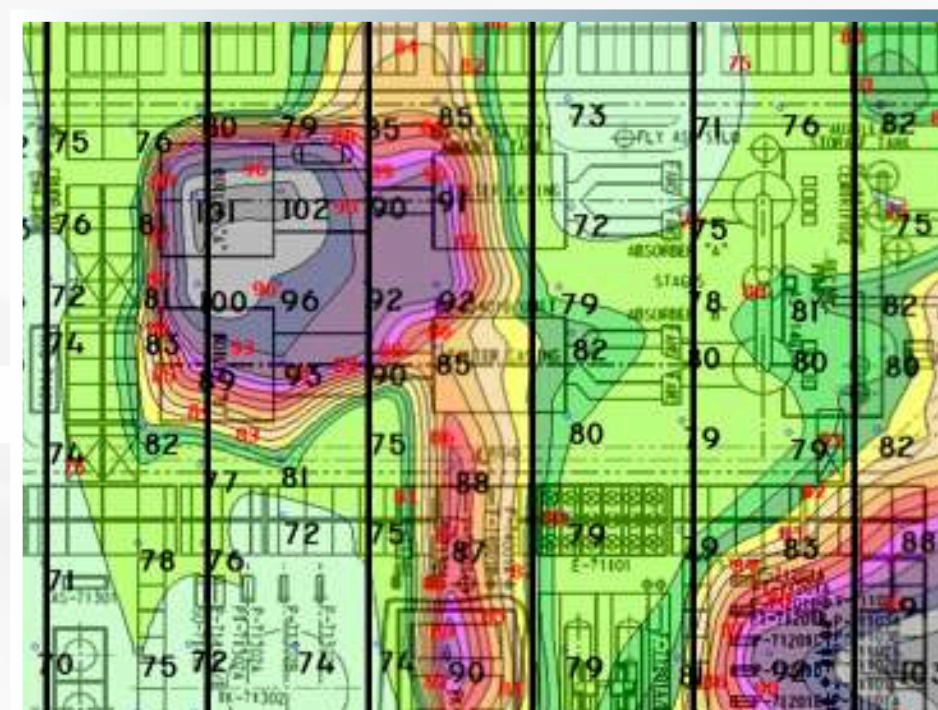
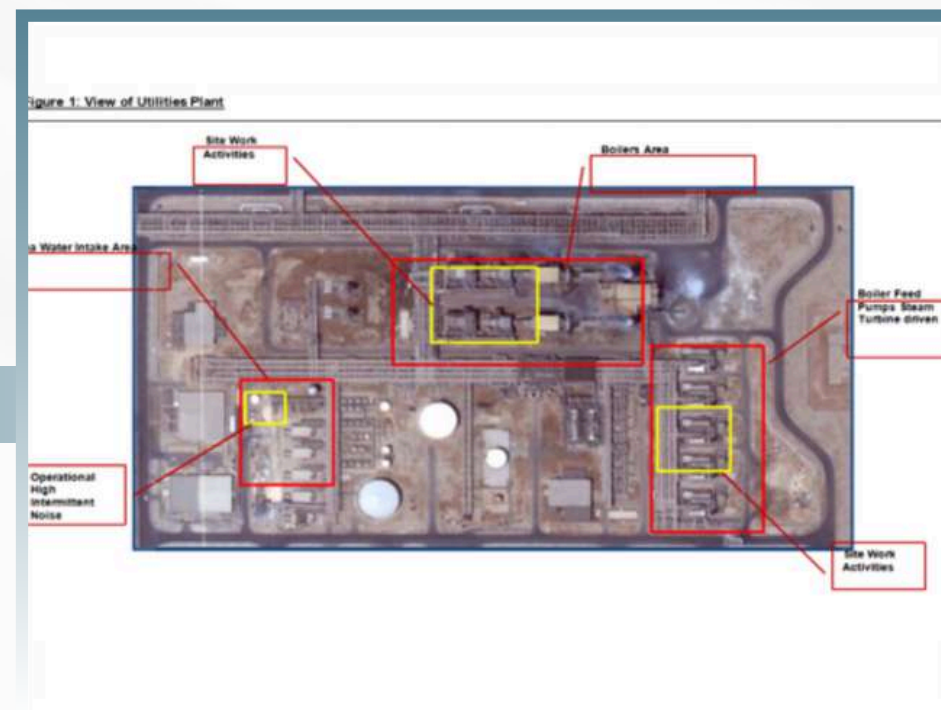
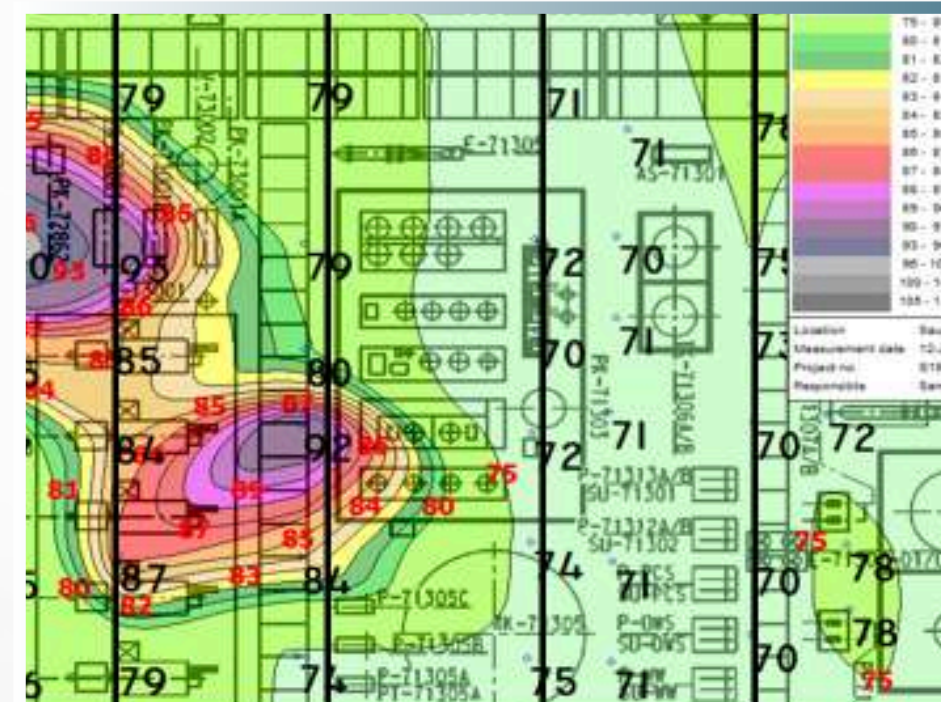
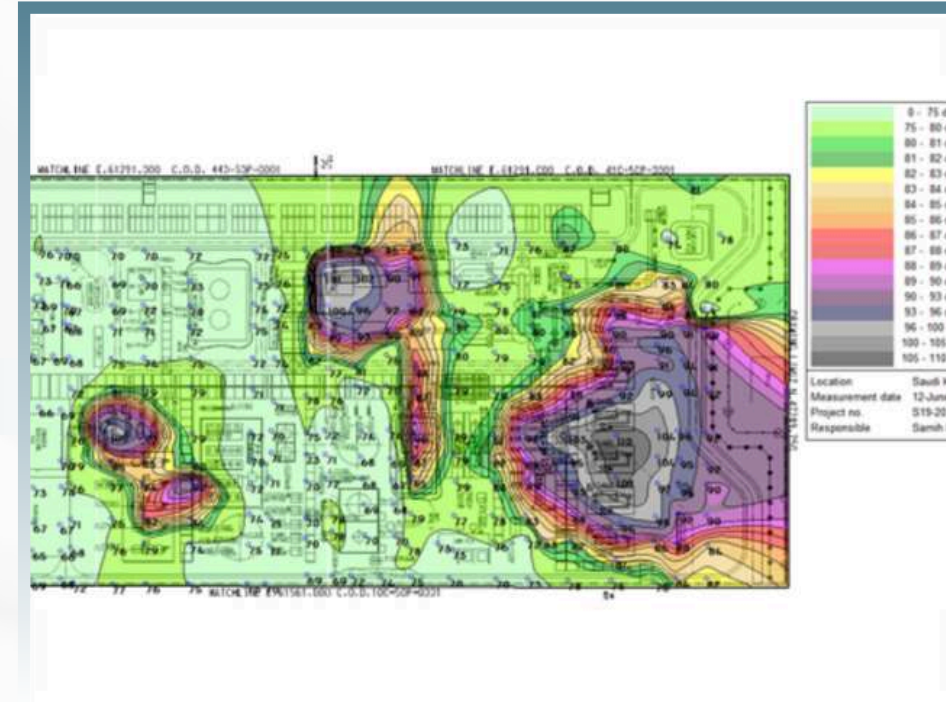
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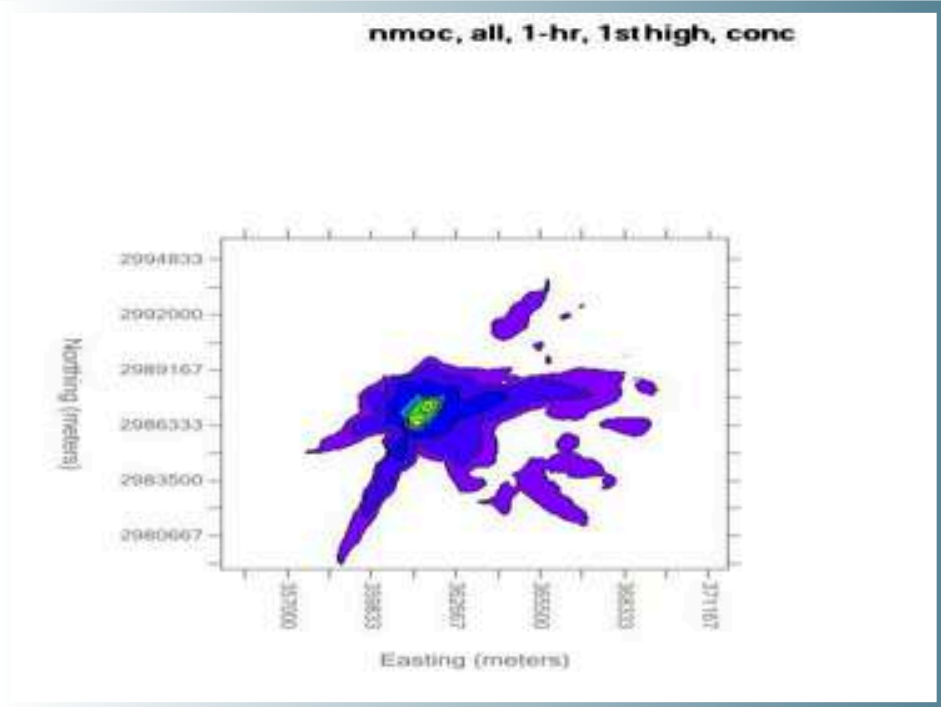
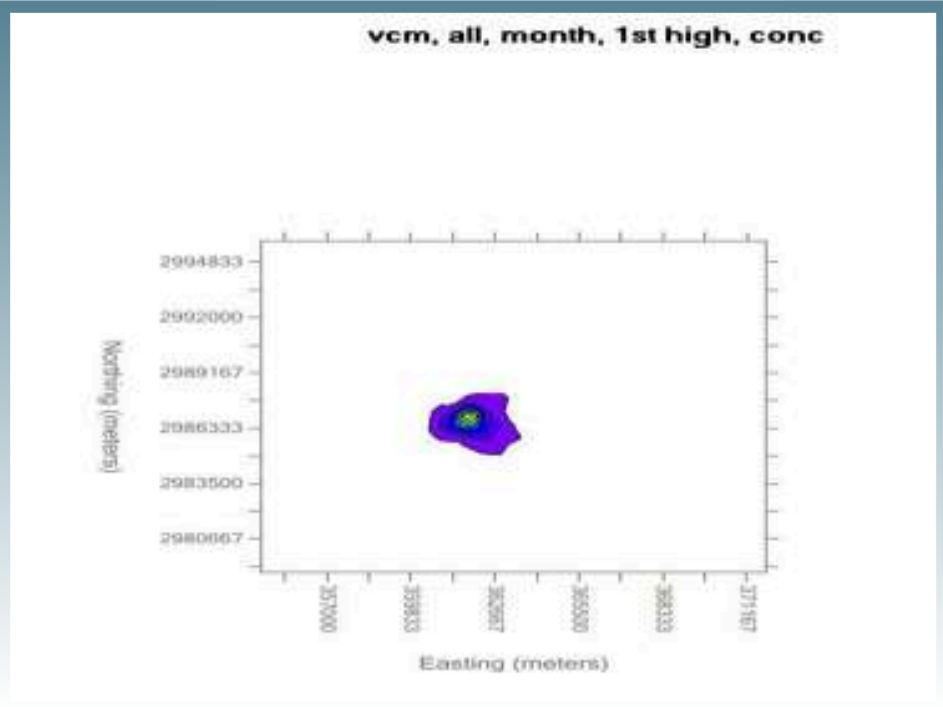
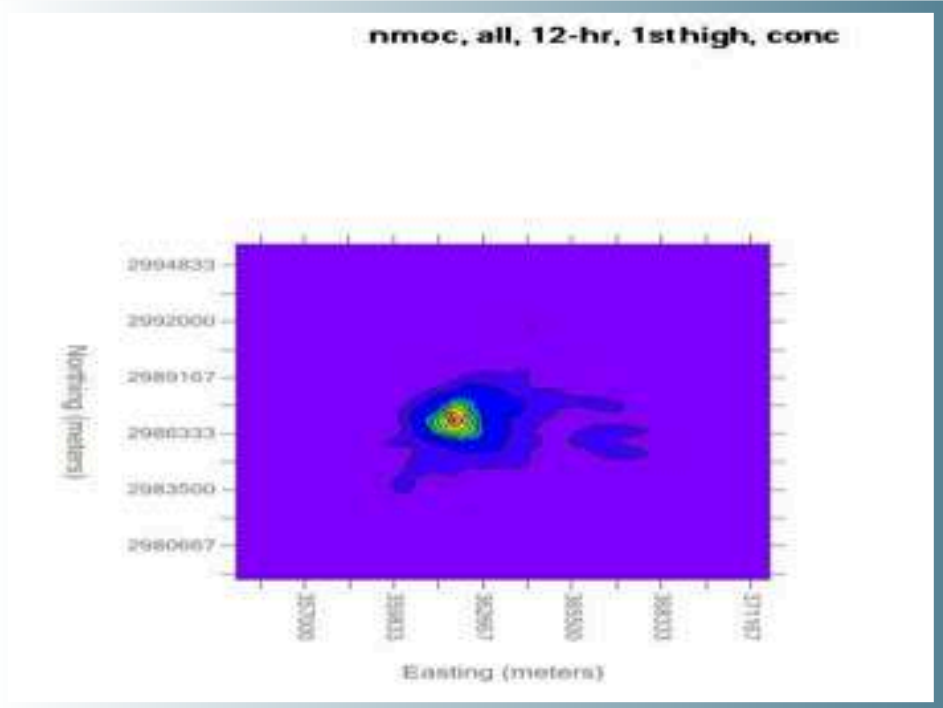
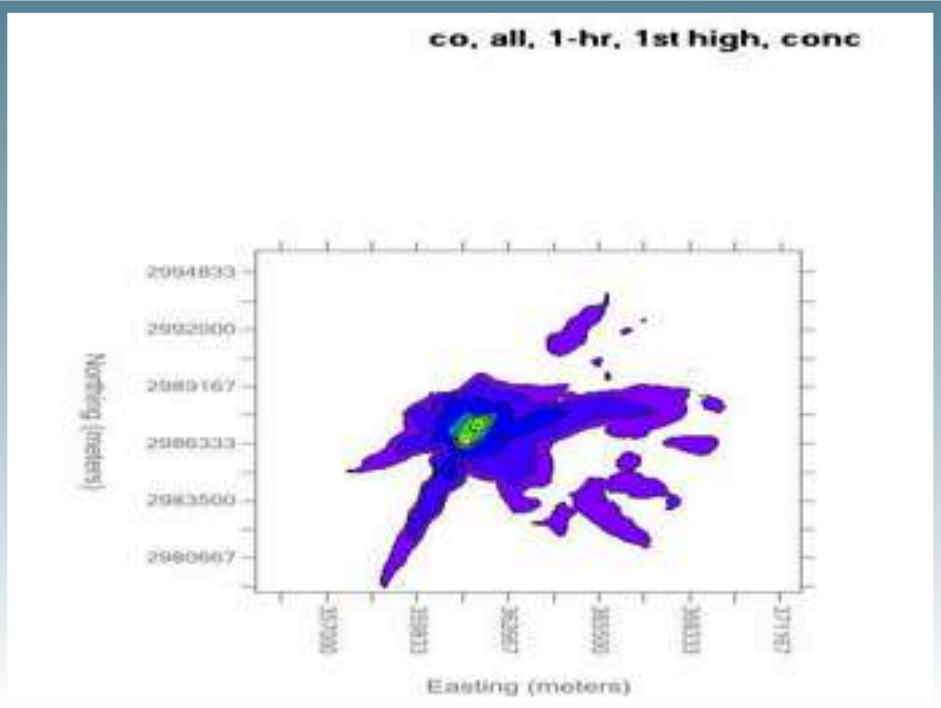
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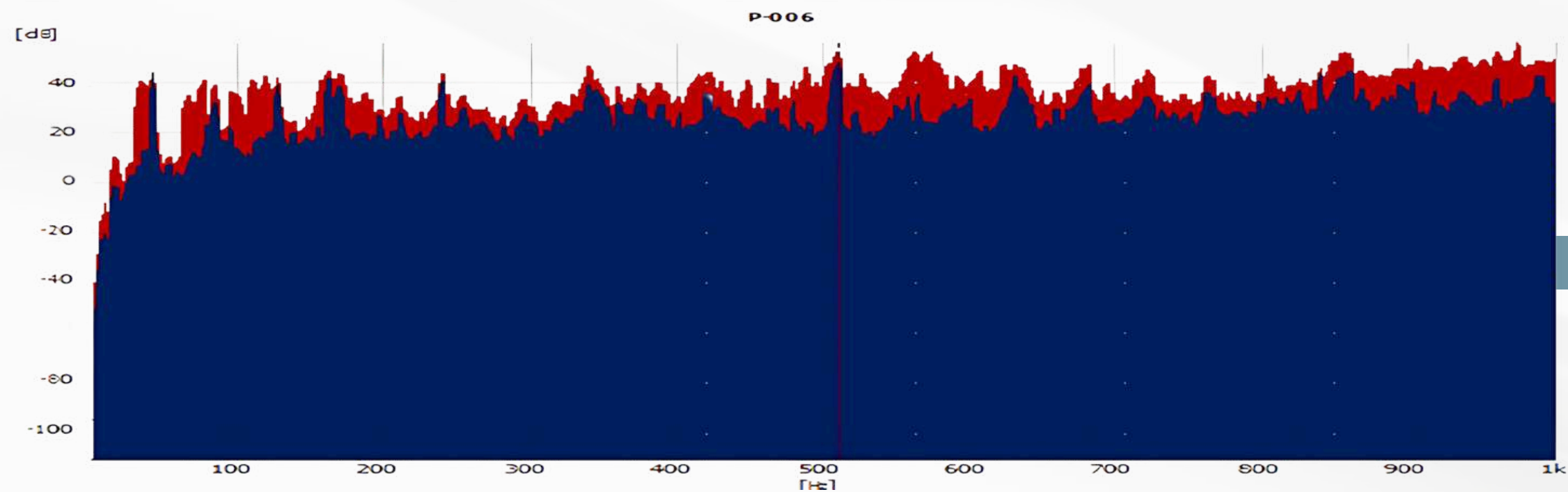
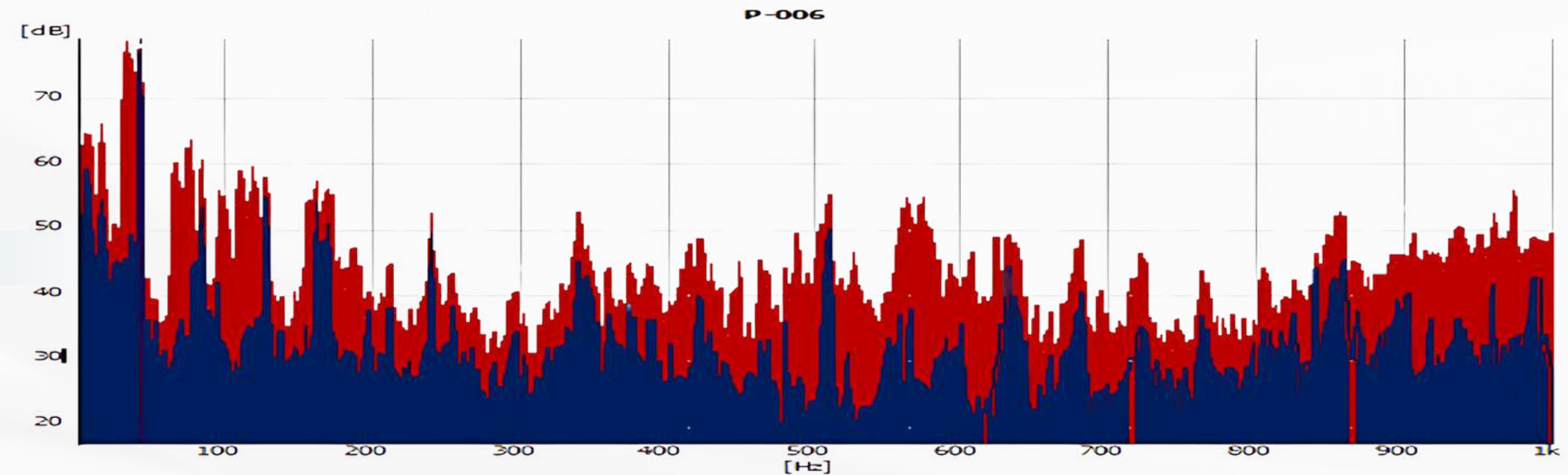
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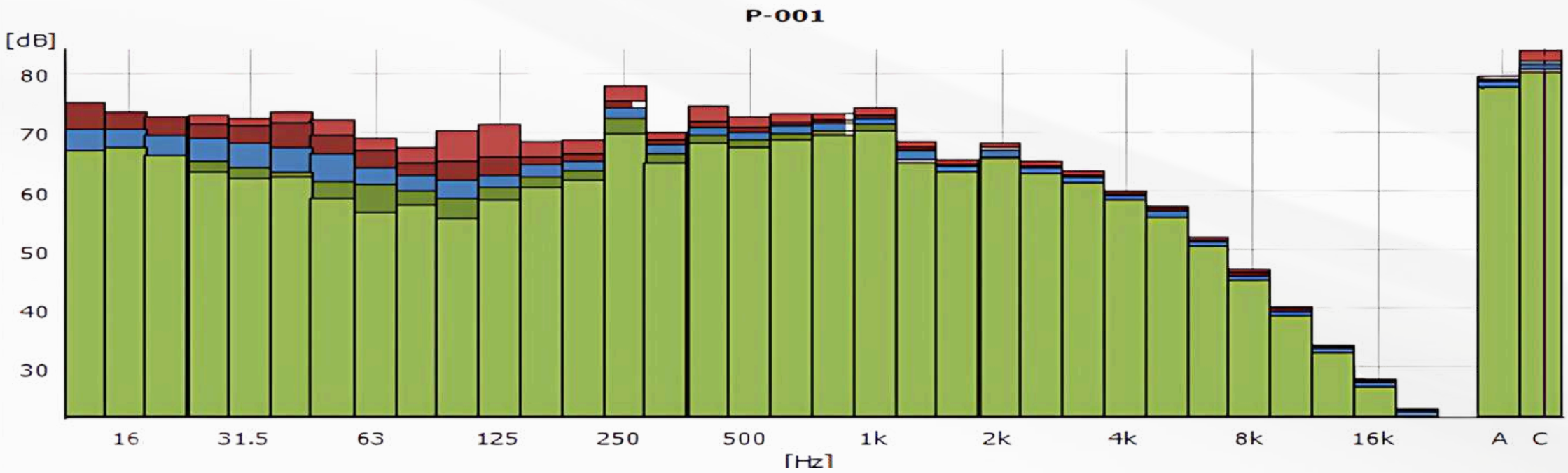
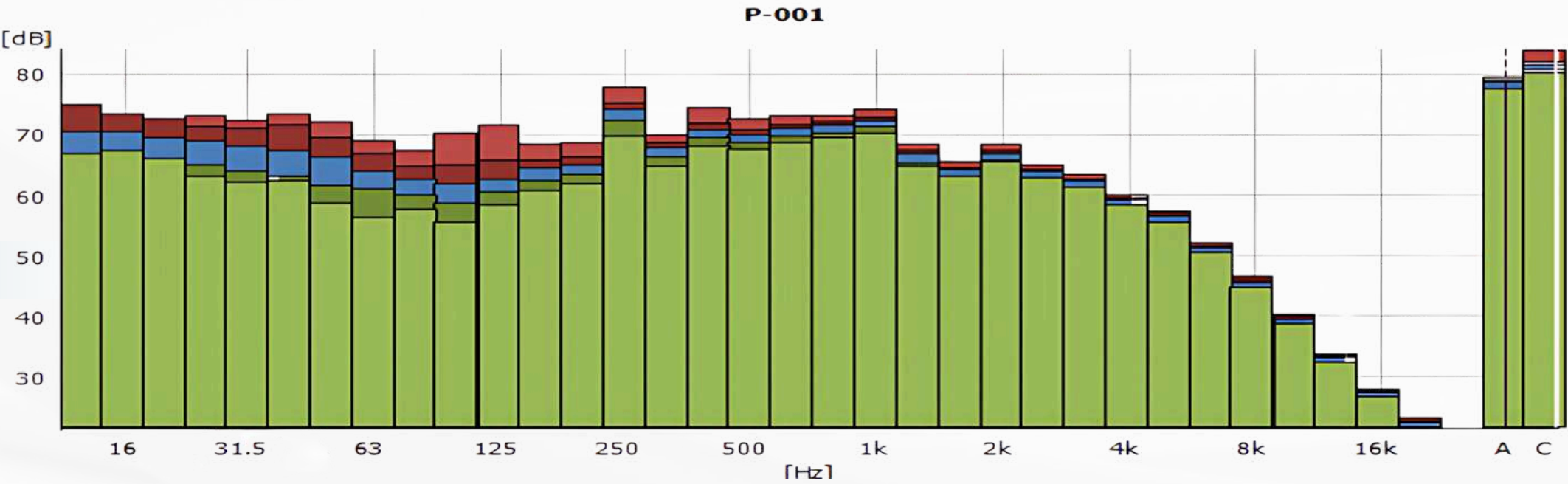
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CLIENTS AND PARTNERS

JEC has successfully executed a diverse range of projects for a wide clientele, including:



CLIENTS AND PARTNERS

JEC has successfully executed a diverse range of projects for a wide clientele, including:



LOCATIONS

TURAIF

- JJG7+8MM TURAIF (31.6258300, 38.6141780)

RIYADH

- PRINCE MOHAMMED BIN ABDULAZIZ RD, AL OLAYA, MOTOON TOWER, 1ST FLOOR

JEDDAH

- AL FAYSALIAH, ABDULLAH AL AMODI REAL ESTATE, 1ST FLOOR

EASTERN PROVINCE (JUBAIL)

- AL MADINAH ALMUNAWARAH STREET, MERGAB TOWER, 8TH FLOOR

✉ INFO@JAPAN-ENGINEERING.COM

☎ 013 363 9575