

FIFTH DIMENSION

OIL SERVICES COMPANY

PROFILE **COMPANY**
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DRIVEN BY KNOWLEDGE POWERED BY PARTNERSHIP

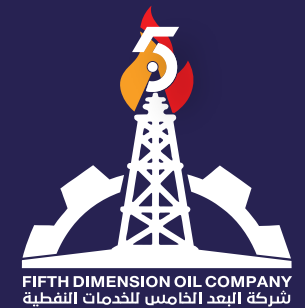


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Who We Are

FIFTH DIMENSION COMPANY for oil and gas services was established in February 2025 as a Libyan company shared with the Italian company.

We would like to introduce ourselves as one international provider of oilfield services engaged in the oil and gas sector. Our management team has a high level of professionalism and academic training, selected from Arab countries and Europe.



Who We Are



About us

FIFTH DIMENSION Company for Oil and Gas Services was established in February 2025 as a Libyan company in partnership with the Italian company .

FIFTH DIMENSION Company represents the integration of technical and practical expertise in consultancy, engineering, project execution and management services, industrial inspection, technical support, and ICT services for the oil and gas industries.

FIFTH DIMENSION Company's experience and understanding of client objectives enable it to meet project goals effectively. The company offers comprehensive services to the industry, including project management, engineering, procurement, construction management, training, and all related support. FIFTH DIMENSION is committed to delivering high-quality products and services on time and within budget.



FIFTH DIMENSION Company and its foreign partner have extensive experience in managing multidisciplinary projects, thanks to a business structure that facilitates knowledge and skill sharing to support clients with innovative solutions. Our activities include pre-feasibility studies (concept selection), front-end engineering design (FEED), implementation, and construction, along with field assistance during system design, operation, and start-up phases.

About us

Purpose in Action, Values in Every Step

How our mission, vision, and values define who we are



OUR MISSION

- Adapting to client needs.
- Innovating in oil and gas solutions.
- Ensuring client well-being through strict safety standards.
- Employing highly motivated and skilled personnel.
- Building long-term partnerships based on trust.



OUR VISION

- To be the company of choice.
- To be a leading oil and gas service management company.
- To build strong partnerships with our clients and suppliers.
- To provide the highest quality technical and academic training.
- To deliver innovative and exceptional services.
- To be admired by our employees and industry peers.



OUR VALUES

- Honesty, truthfulness, and sincerity at work.
- Absolute transparency and the combatting of financial and administrative corruption.
- Patriotism to the company and the country.
- Denial of selfishness.
- Simplifying and improving processes.
- Encouraging cooperative efforts.

Our services

Thanks to the expertise of our qualified technical and practical engineering team.



Project management services



Engineering services



QHSE



Procurement services



Maintenance Services



Building and Construction services

Our services

FIFTH DIMENSION COMPANY offers a wide range of oilfield services utilizing industry-leading technologies.



Subsea Services



ICT Services



Inspection services



Manpower supply services



Commissioning

Project management services

A Project Manager in the energy industry is responsible for the successful execution of large-scale projects, including planning, budgeting, and managing resources to ensure timely project completion.

Project managers oversee everything from construction to environmental compliance, requiring a unique blend of leadership, technical expertise, and regulatory knowledge.

Arriving at project goals, taking into account the constraints imposed by the client, is both difficult and fascinating. It is a challenge that pushes us to deploy all our leadership skills.

In order to monitor and optimize the processes that lead to the realization of the projects.



Data Analysis



We start from raw data, converted into useful information for the decision-making process. The data is collected and analyzed to answer questions, verify hypotheses, disprove theories, and indicate new strategies to adopt.

Budget & Planning



In the manufacturing industry, when setting up a project, it is essential to define a budget that is divided into an investment plan, an economic plan, a capital plan, and a financial plan. Only after defining these parameters can we move on to the detailed planning phase of the various activities.

Customer Management



The customer manager is the point of contact between the end customer and the project stakeholders, managing the exchange of information on planning and technical aspects in order to guarantee a rapid and profitable execution of the project with a view to ensuring maximum customer satisfaction.

Project management services

In this area, FIFTH DIMENSION COMPANY, thanks to its multidisciplinary skills, guarantees the operational management of the work teams and processes that lead to the realization of the projects, managing and monitoring the programs in each of their phases and respecting the timing and objectives requested by the end customer.



Supply Chain Management

It is a strategic approach that aims to coordinate the activities necessary to provide a product or service to the customer. This includes supplier relationship management, inventory management, production planning, logistics, and transportation management. The main objective of supply chain management is to optimize the efficiency and productivity of the supply chain while minimizing the associated costs and risks.



Application Engineering

We coordinate the activities for the study of the applications of a component or a system, with the role of technical interface between the customer and the component engineering, in order to guarantee the creation of products capable of satisfying the specific performance required.

Data Analysis

Data collection and analysis are becoming increasingly important to have, through a process that starts from raw data, converting it into useful information for the decision-making process , indicating the strategies to adopt.

FIFTH DIMENSION COMPANY , Thanks to our consolidated experience over many years, we guarantee our customers maximum data confidentiality, offering customized and reliable solutions.

Data is collected and analyzed to answer questions, test hypotheses, or disprove theories.

Data Analysis

Our expertise in this area is



Data Analysis

Budget & Planning

FIFTH DIMENSION COMPANY supports companies in the analysis and definition of the budget and monitors the economic objectives and the product development plan. The activities are as follows:

- Investment plan.
- Economic plan.
- Equity plan.
- Financial plan.

Once the budget definition is completed, a control plan is drawn up which allows the progress of the project to be monitored and controlled.

Control planning may include:

- Defining specific objectives
- Defining key performance indicators (KPIs)
- Defining a monitoring system for project progress





To control the project development, it is essential to plan in detail and carefully monitor costs.

Economic initiative for project development requires detailed analysis, budgeting, and a control system to ensure the success of the project.

Customer Management

The Customer Manager acts as the bridge between the customer and project stakeholders, ensuring seamless communication and alignment throughout the project lifecycle.

The main activities include gathering customer requirements, supporting sales efforts, advocating for customer needs, and coordinating program planning to ensure smooth project execution.

FIFTH DIMENSION COMPANY combines innovation, customer management, and leadership capabilities, offering operational support in the following activities:



Planning



Communication



Problem solving



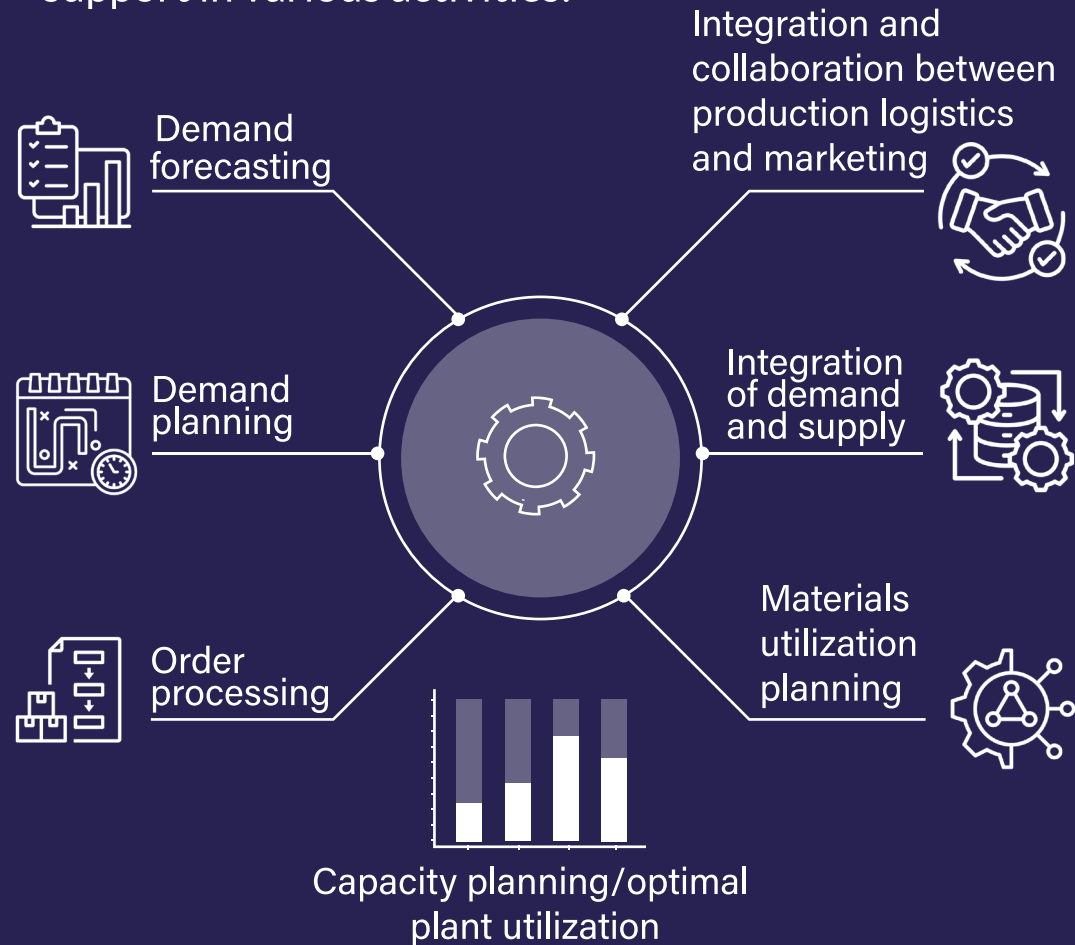
Soft skill



Customer Management

Supply Chain Management

FIFTH DIMENSION COMPANY can offer operational support in various activities:



Today, the need to monitor, anticipate, and manage sales trends — predicting consumption patterns and market dynamics — has become essential.

SCM manages and coordinates the network of companies across the supply chain, ensuring value creation for the end consumer through collaboration, analysis, and planning of key activities.

Application Engineering

The Application Engineer is responsible for evaluating and coordinating activities necessary to analyze the applications of a component or system in relation to its performance and functionality.

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It is the technical interface between the customer and the component engineering, which will develop the system or component suitable for carrying out the required mission according to the performance specifications or non-standard applications.

FIFTH DIMENSION COMPANY has a range of skills to perform the role effectively:

01

Planning

02

Technical
knowledge

03

Communication

04

Problem
solving

05

Soft skills

Engineering services

FIFTH DIMENSION COMPANY , We offer a comprehensive range of engineering services tailored to the dynamic needs of the oil and gas sector. Combining innovation with technical expertise,our solutions are designed to prioritize safety, reliability, and efficiency.



FIFTH DIMENSION COMPANY , We understand the critical importance of safety, efficiency, and compliance in the oil and gas industry . Our rigorous recruitment processes ensure that all our personnel meet the highest industry standards.

We work closely with our clients to understand their specific requirements and deliver tailored solutions that enhance operational performance and productivity.

Comprehensive Engineering Services

- 01 Concept Definition (pre-FEED)
- 02 Front-End Engineering
- 03 Detailed Engineering
- 04 Engineering Consultancy

Concept Definition (pre-FEED)



Concept Definition, or pre-FEED, adds a further level of detail to the option selected at the conclusion of Concept Select to achieve more precise definition, a better cost estimate and, ultimately, a scope of work for FEEED.

The scale of a Concept Definition or pre-FEED phase can vary dramatically depending on the nature of the project.

Regardless of scale, the activities in Concept Definition are chosen to address the development's circumstances and can include:

pre-FEED



Process scheme optimisation



Reduction in optionality using targeted studies of particular aspects of design e.g. technology selection



Finalisation of field architecture



Project schedule enhancement



Preliminary P&ID development



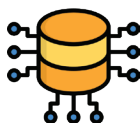
Layout development



Preparation of survey scopes of work, tendering and management of the work



Engagement with other work groups and third parties to reduce uncertainties e.g. drilling, reservoir engineering, tie-ins to other facilities, regulatory authorities, buyers of products.



Issue of enquiries for long lead or high cost items



Cost estimating and economic assessment



Development of risk mitigation plans



Commencement of the ESIA process



Basis of design update




Project execution plan and contracting strategy finalization

Front-End Engineering Design (FEED)

FIFTH DIMENSION COMPANY, has extensive in-house expertise and FEED study experience across all major operating regions. We work collaboratively with our clients to ensure that specific technical requirements and the chosen execution contracting strategy are reflected in the delivery of the FEED.

FIFTH DIMENSION COMPANY, extensive FEED experience extends to cover all common FEED engineering activities, including:

- 01  Materials Engineering/Cathodic Protection design
- 02  Pipeline design
- 03  Riser design (rigid, flexible and steel catenary)
- 04  Global in-place analysis (rigid riser, flexible and umbilical)
- 05  Subsea Structure design
- 06  Tie-in Spool design
- 07  Subsea Production System design
- 08  Geotechnical studies
- 09  Technical safety studies
- 10  Environmental studies
- 11  Installation feasibility assessment

Detailed Engineering

FIFTH DIMENSION COMPANY, Thanks to our consolidated experience and multidisciplinary skills.



Purpose : Transition from conceptual designs to actionable blueprints and technical documents required for project execution.



Mechanical, electrical, civil, piping, and telecommunication system designs.



Material requirements and detailed technical specifications.



Tender evaluations and vendor drawing reviews to ensure quality compliance.



Subcontract packages for construction phases.



Factory Acceptance Testing (FAT) to verify equipment readiness before deployment.



Engineering Consultancy

FIFTH DIMENSION COMPANY, Thanks to our consolidated experience and multidisciplinary skills.



Purpose :Enhance asset efficiency, safety, and compliance through specialized advisory services.

Engineering Consultancy activities, including:



Feasibility studies
and project evaluations.



Hazard analyses and risk
assessments to mitigate
operational risks.



Optimization strategies
to improve processes and
reduce costs.



Environmental impact
studies to align projects
with sustainability
objectives.

Types of Engineering Fields



Piping Engineering



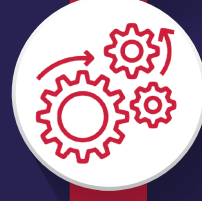
Pipeline Engineering



Mechanical Engineering



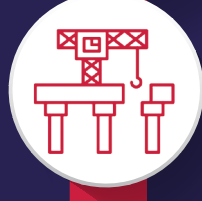
Electrical Engineering



Process Engineering

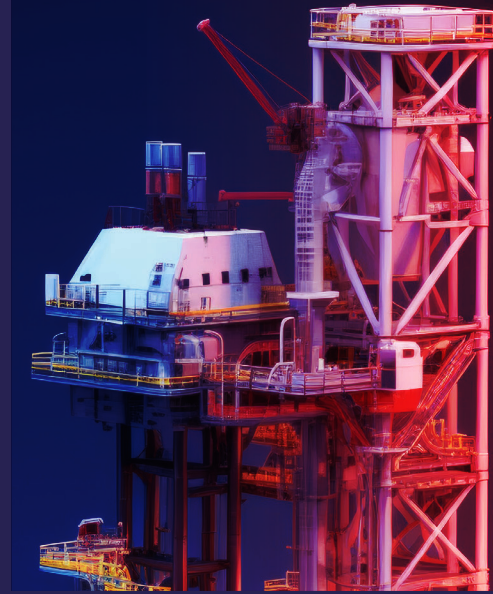


Instrumentation Engineering



Structural Engineering

FIFTH DIMENSION





Piping Engineering

PIPING ENGINEER: A KEY PROFESSION IN THE PIPELINE SYSTEMS INDUSTRY.

A piping engineer is an expert in the field of engineering who specializes in designing and managing piping systems for the transportation of fluids, such as liquids, gases, and vapors, in industrial environments.

The main tasks of a piping engineer include:

- Preparation of Conceptual Design, FEED (Front End Engineering Design) and Detail Design work
- Piping Material specification
- Pipe Thickness Calculation
- Construction Method Statement
- Data sheets and Specifications
- 3-D modelling
- Stress Analysis
- Pipe Support Design
- Spring Selection and Specification
- Isometrics, GA drawings and all other relevant piping Drawings



Pipeline Engineering

THE IMPORTANCE OF SURGE VESSELS IN PROTECTING PIPELINES AND EQUIPMENT FROM PRESSURE SURGES.

The main tasks of the pipeline systems industry include:

- Pipeline Design for Sub-Sea, Onshore and Cross Country Pipelines
- Pipeline Topographic & geotechnical Survey and Report

- Pipeline design Basis
- Pipeline Wall Thickness Report
- Pipeline Specifications and Data Sheets
- Pipeline material Take-off
- Pipeline Route Alignment sheets
- Pipeline Overall Route Drawing
- Typical/Standards Drawings
- Anchor Details
- Pipe Support Detail
- Expansion Loop
- Specifications and Data Sheets
- 3-D modelling
- Stress Analysis



Mechanical Engineering

Mechanical engineers in the oil and gas sector are involved in a wide range of activities that span across various stages of the production process.

Below are some of the key roles they perform:

- Above Ground and Below Ground Storage Tank design and Drawings
- Fixed Roof and Floating Roof Tank design and drawings
- Material Certificates
- Heat Exchanger Design and Drawings
- Pressure Vessel Design and Drawings
- Rotating and Non Rotating Equipment Specifications and Data Sheets
- WPS's, and Welding Procedures



Electrical Engineering

The Oil and Gas Electrical Engineering Systems series covers the required and relevant knowledge for the electrical engineering maintenance sector, as well as theory, operation and practical application of electrical equipment and systems used in extraction.

In the oil and gas sector, where risks are inherent, reinforcing a safety-first mindset is essential. At FIFTH DIMENSION COMPANY, we embody this ethos, integrating safety into every aspect of our innovative electrical engineering solutions.

The main tasks of the Electrical Engineering include:

- Cable Schedule and Calculations
- Earthing Calculation
- Single Line Diagram
- Wiring Diagram
- Substation Design
- Control Panel Design and Drawings
- Power Requirement Calculations
- High Voltage and Low Voltage Electrical Design



Process Engineering

FIFTH DIMENSION COMPANY, Process Team has a global remit with a proven track record of supporting national oil companies. Our engineers have the broad knowledge gained from cost-sensitive, decision-focused multidisciplinary projects and bring this approach to bear on more specialized process scopes.

Areas of activity:

- Preparation of Conceptual Design, FEED (Front End Design), and Detail Design work
- Hydraulic Calculation Report (HYSIS)
- Pressure Drop Calculations
- Preparation of PFD's, P&ID's and UEFD's
- Dispersion Calculations
- Adequacy Check and Calculation Reports

- Valve Classifications
- Operating and Control Philosophy
- Process Flow Diagrams
- Mass Balance
- Steady State Simulations
- Transient (Dynamic) Simulations
- Surge analysis
- Study Reports
- Equipment Sizing (Pumps, Compressors, Static Equipment, Pressure Vessels, Separators etc...)
- Line Sizing
- Process & Instrumentation Diagrams
- Control, Shutdown, and Safe guarding Philosophies
- Process Cause & Effects
- Utility Calculation reports
- Equipment Datasheets
- Instrument Datasheets



Instrumentation Engineering

Industrial instrumentation is used to control and monitor conditions including temperature, pressure, and fluid levels in processing facilities, oil refineries, petrochemical plants, oil and gas pipelines, and distribution operations.

Common applications of oil and gas instrumentation include monitoring the presence of flammable and combustible gases in production and storage areas and monitoring emissions for pollution control. Instrumentation is also used for monitoring and controlling flow in delivery systems.

Below are some of the key roles they perform:

- Specifications and Data sheets for the Inline Instruments
- Instrument-Hook Up Drawings
- Instrument Schedule
- Cable Schedule
- Loop drawings
- Operating and Control Philosophy
- Cause & Effect Diagram
- Fire & Gas System, Panel and Detector Design and Drawings
- Cable Route Layout



Structural Engineering

Structural engineering in the oil and gas industry involves designing, building, and maintaining structures used to explore and extract oil and gas.

This includes designing offshore platforms, drilling rigs, and onshore facilities.

- Pipe Support Design and Drawings
- Access and Maintenance Platform Design Calculations and Drawings
- High Post and Elevated Pipe Support Design and Drawings
- Structural Design
- Structural Analysis

Building and Construction services

FIFTH DIMENSION COMPANY is well equipped as a leader with our associate companies to perform the following building and construction works.

Types of Building and Construction Fields

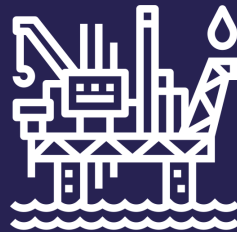


STRUCTURAL

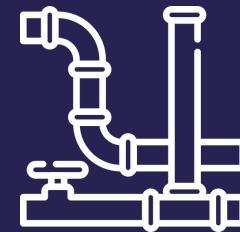
FIFTH DIMENSION COMPANY is well equipped as a leader with our associate companies to perform the following Structural Fabrication & Construction works.



Steel Fabrication Works



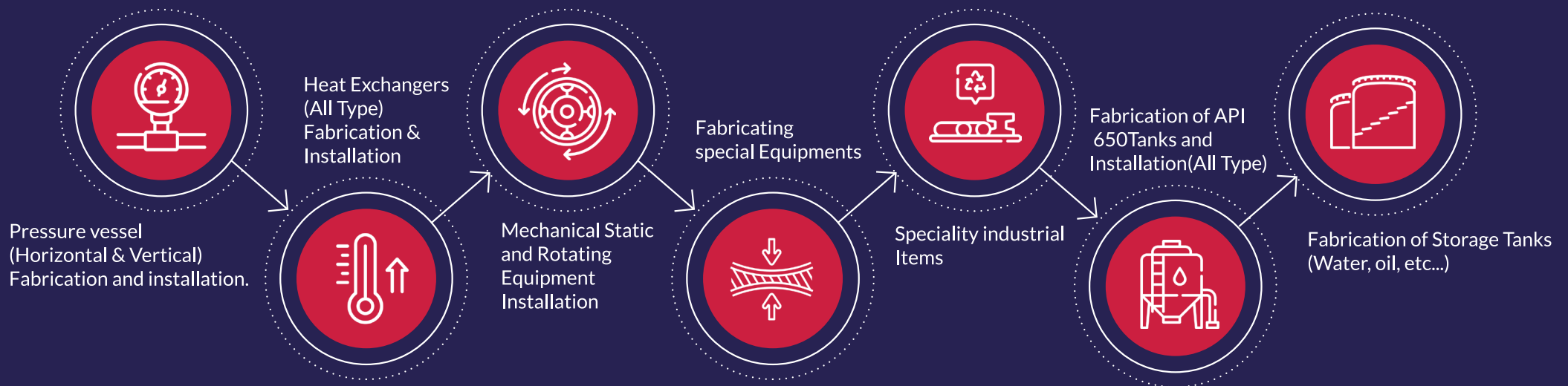
Structural access platforms,
maintenance platforms,
crossovers and Pipe Racks



Pipe Supports and
Supporting Structures

Mechanical

FIFTH DIMENSION COMPANY, is well equipped as a leader with our associate companies to perform the following Mechanical Fabrication & Construction works.



Electrical & Instrumentation



FIFTH DIMENSION COMPANY, is well equipped as a leader with our associate companies to perform the following E&I Fabrication & Construction works.



Steel Fabrication Works



Fire & Gas Deduction
system installation



Fabrication of (All Types)
panels like Control panels,
Power panels, Power
distribution panels, etc



Electrical Power supply
system installation to all
the industrial facilities



Industrial Automation

Piping and Pipeline

FIFTH DIMENSION COMPANY, is well equipped as a leader with our associate companies to perform the following Piping & Pipeline Construction works.

- Defining the layout, selecting materials, and sizing the system.
- Ensuring that systems comply with all safety regulations.
- Choosing valves, fittings, and measuring instruments.
- Preparing specifications for the production and assembly of components.

Procurement services

FIFTH DIMENSION COMPANY, procurement teams develop and implement exceptional procurement strategies to improve competitiveness and project execution. We provide clients with global resources, processes, systems, market intelligence and leveraged pricing models to help maximize return on investment.



Our Procurement Services capabilities include:

Supplier qualification



Sourcing and category management



Supplier and subcontractor management



Expediting services and materials management



Quality control and inspection surveillance



Transportation management and logistics



Commercial and contractual management



Use of High Value Execution Centres (HVEC).



Instrumentation
Engineering

Manpower supply services



Provision of specialist engineers at all phases of projects, including design, procurement, construction, and commissioning.



Secondment of specialists in a variety of other fields, including health and safety, quality assurance, information technology, and environmental engineering.



Provision of operations and maintenance teams for oil, gas, and product pipelines and associated facilities.



Piping Engineers (PDMS/PDS).



Stress analysis Engineers.



All other Discipline Engineers in all Levels.



Maintenance and Operational Engineers.



Project Managers & Construction Managers.

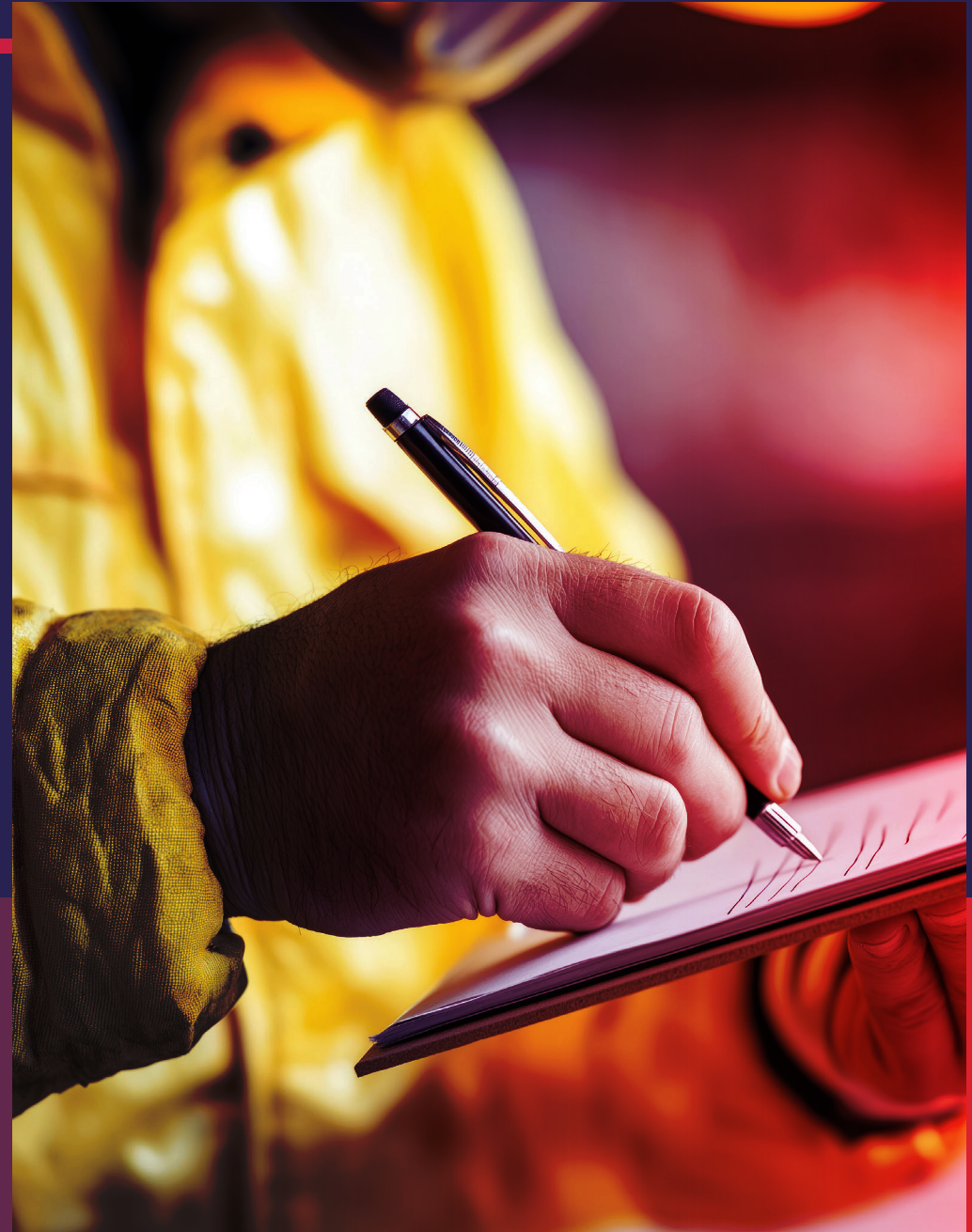


Inspection services

FIFTH DIMENSION COMPANY, is capable of providing a wide range of Industrial Inspection Services which are undertaken by our staff, qualified to internationally recognized standards (e.g. CSWIP, PCN, ASNT, AMPP & API). Conventional NDT methods & Inspection, which are carried out in accordance with the intended international codes such as (ASME, ANSI, API, AWS, BS-EN & ISO).

FIFTH DIMENSION COMPANY equipment's for industrial application such as:

- Phased Array Testing.
- X-Ray pipeline crawler.
- guided wave ultrasonic technique.
- Time of flight diffraction (TOFD).
- Acoustic Emission Testing.
- inline inspection (intelligent pigging).
- Magnetic Flux Leakage (MFL).



Marine services

Subsea Oil & Gas

FIFTH DIMENSION COMPANY, experience in delivering offshore marine and subsea solutions to the oil and gas industry, including Launch and Recovery Systems, Hyperbaric Reception Facilities and Diving Decompression Chambers.



Marine services

Thank you for taking the time to explore our journey. At FIFTH DIMENSION, we are dedicated to transforming ideas into impactful solutions that drive success. We look forward to the opportunity to work together and create something extraordinary.



Contact Information

Let's create success together.
Reach out today to start the conversation!



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FIFTH DIMENSION OIL COMPANY
شركة البعد الخامس للخدمات النفطية

