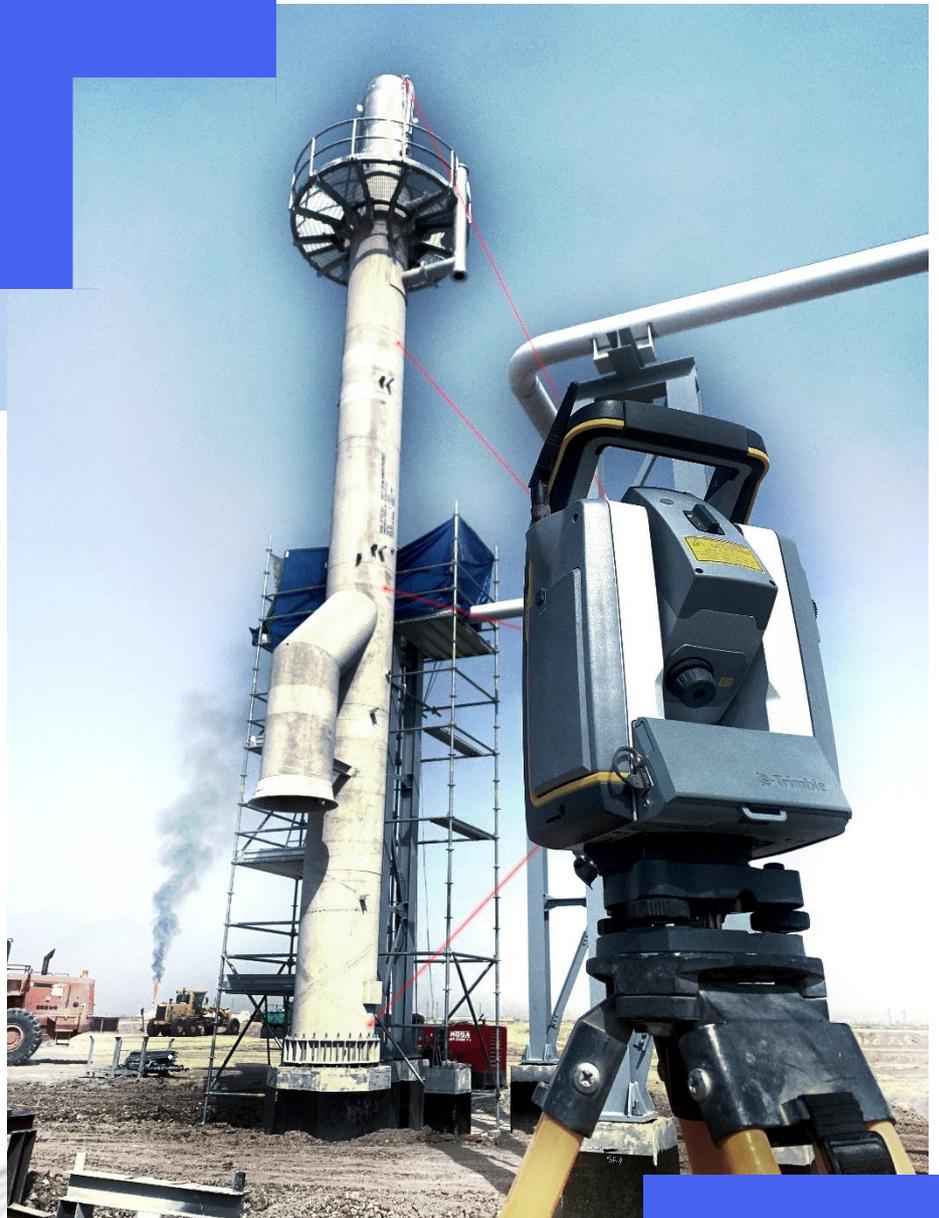


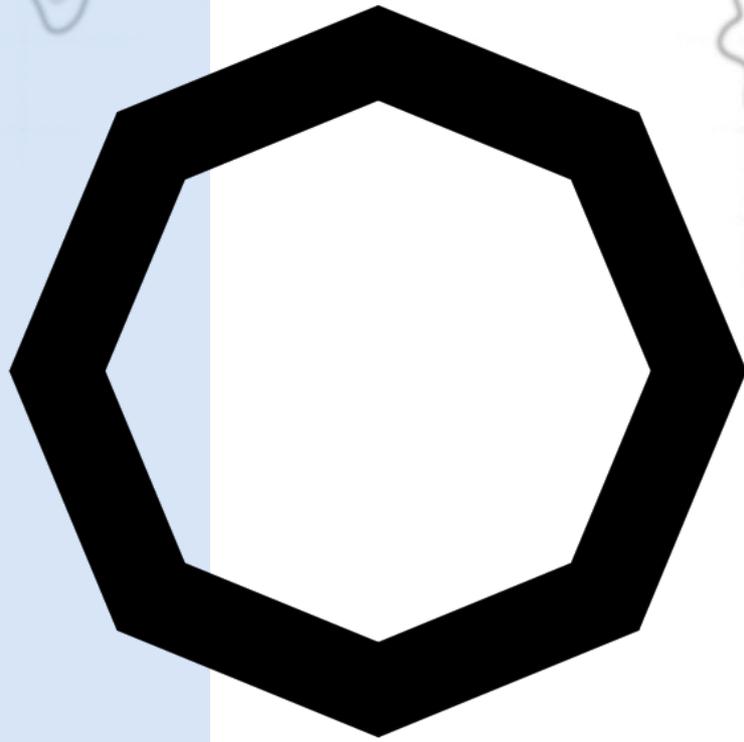
OCTAGON

WORK PORTFOLIO

OCTAGON GEOSPATIAL COMPANY FOR

- TOPOGRAPHICAL SURVEYING AND GENERAL GEODETIC WORKS.
- ENGINEERING DESIGNS.
- TRADING SURVEYING AND ENGINEERING EQUIPMENT.





OCTAGON

Take a quick scroll for the brief of the Octagon headline,
(vision, abilities and brief of projects).



■ Introduction:

OCTAGON for topographical surveying, geomatics and general geodetic works, An Iraqi Company establish in 2020 and it consider a part of main DSC company for general contractors, civil and construction works,

We are here introducing our engineering services relating for all topographical surveying and modern geomatics and geodetic activates with land or marine surveying, with a strong focus on supporting complex oil and gas projects. From pipelines, flow lines survey and underground facilities detection to detailed design and drafting, we offer expert solutions that ensure accuracy and efficiency.

Our services extend to the road design, including alignment sheets, profiles, and comprehensive calculations of material quantities, all tailored to meet the specific requirements of each project.

We combine advanced technology with deep industry knowledge to deliver precise and reliable data for all phases of development, from initial surveys to the final design and construction stages. Whether it's land development, infrastructure, or energy sector projects, our team is committed to providing superior service and innovative solutions that help our clients achieve their project goals successfully.



■ Specialization & Services

we specialize in delivering precise and comprehensive surveying and topographic solutions, with a strong focus on the oil and gas sector. Our expertise lies in a wide range of surveying disciplines, providing accurate data that supports informed decision-making for construction, land development, environmental studies, infrastructure projects, and especially for the complex requirements of oil and gas exploration, extraction, and pipeline development.

Our core specializations include:

• **Topographic Surveys:** We provide detailed topographic surveys, capturing the layout, elevations, and features of the land to facilitate planning and design.

• **Boundary Surveys:** Accurately defining property lines and boundaries, ensuring clarity in legal descriptions and preventing disputes, particularly important when dealing with land leases and rights-of-way for oil and gas pipelines.

• **Geodetic Control Surveys:** Establishing control points to serve as reference for large-scale construction and mapping projects, which are essential in coordinating the long-term infrastructure development, that is doing by a professional technique as a PPP, PPK, Static, the correction by traverse and triangulation, or temporary RTK Points etc.

• **As-Built Surveys:** Conducting surveys to verify that completed construction adheres to design plans, assisting with compliance, project close-out, and regulatory reporting



• Services

We are committed to offering cutting-edge surveying services using the latest technologies in the field. Our services are designed to meet the diverse needs of clients across various industries, including the specific challenges and demands of the oil and gas industry:



• **High-Precision GPS and GIS Mapping:** Utilizing state-of-the-art GPS equipment and GIS systems for accurate mapping and spatial data analysis. This service is particularly valuable in mapping large oil fields and optimizing pipeline routes while minimizing environmental impact.

• **Drone (UAV) Surveys:** Deploying UAV technology to capture aerial imagery and data, providing fast and efficient survey results, particularly in hard-to-reach or hazardous areas. For the oil and gas industry, UAVs are invaluable for surveying remote well sites, monitoring pipelines, and inspecting offshore platforms.

• **3D Laser Scanning:** Delivering high-resolution 3D point clouds for complex structures, such as refineries, oil storage facilities, and pipelines. This data helps with design, maintenance planning, and operational efficiency.

• **Land Subdivision and Plotting:** Offering comprehensive services for land division, ensuring compliance with legal and regulatory standards, crucial when dividing land for exploration leases, facility construction, and access road development in oil fields.

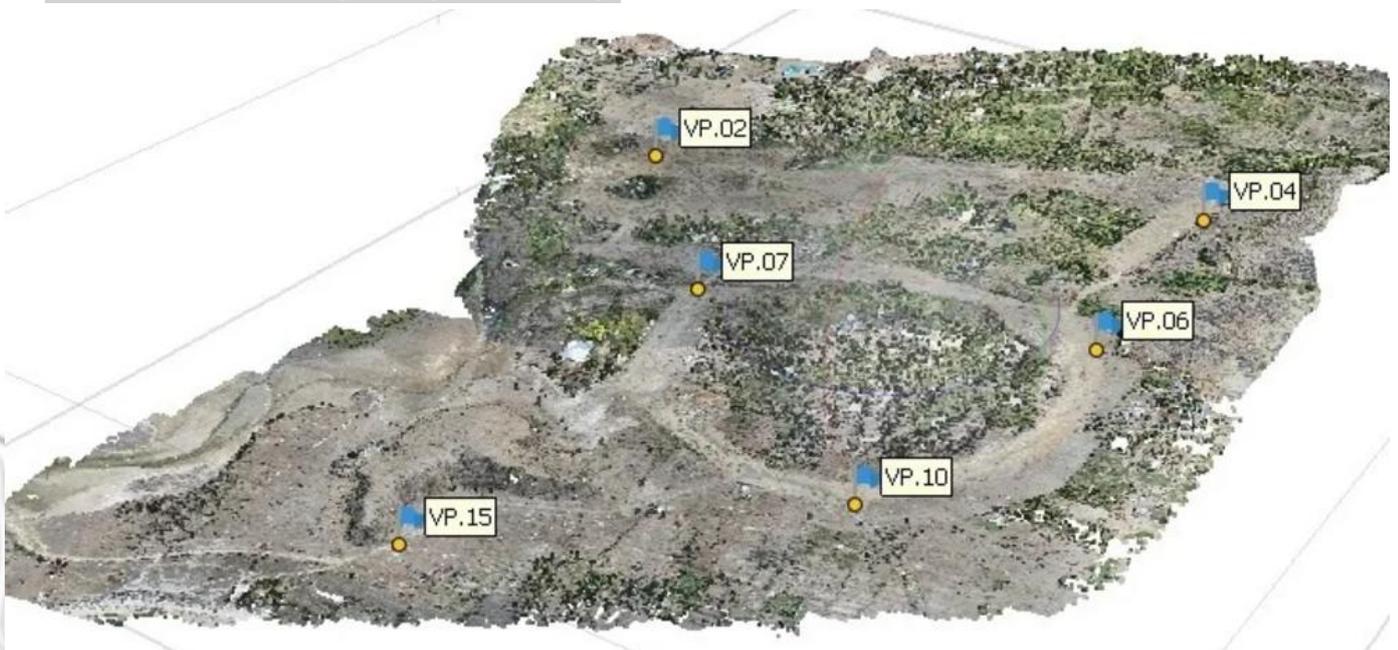
• **Topographic and Elevation Mapping:** Providing essential elevation data for floodplain management, land development, and civil engineering projects. In the oil and gas industry, this service helps in identifying optimal locations for drilling platforms and designing flood-resistant infrastructure.

■ Drone, Photogrammetry, and Mapping Services.



drone technology and photogrammetry to provide high-precision surveying and mapping solutions. Our aerial data collection methods ensure accuracy, efficiency, and cost-effectiveness, making them ideal for a wide range of applications, including:

- ❖ Topographic Surveys drawings.
- ❖ 3D Terrain Modeling.
- ❖ (DEMs) & (DSMs).
- ❖ Volumetric Calculations (BOM).
- ❖ 2D & 3D Feature Extraction.
- ❖ Contour Mapping.
- ❖ Mosaic And orthophoto pictures map.



■ LiDAR Scanning & 3D Mapping Services

LiDAR (Light Detection and Ranging) technology is a high-precision 3D mapping and geospatial solution. LiDAR scanning enables us to capture millions of data points in real time, creating accurate digital terrain models (DTM), digital surface models (DSM), and 3D point clouds for various applications.

Advanced LiDAR scanning solutions use both drone-mounted LiDAR sensors and handheld SLAM (Simultaneous Localization and Mapping) devices to deliver high-precision 3D mapping and geospatial analysis. This dual approach allows us to efficiently scan large-scale landscapes from the air while capturing detailed indoor, underground, and complex environments from the ground.



■ Key Achievements & Projects.

■ Highlighted Projects:

Our extensive experience in the field of surveying and topography has enabled us to undertake a wide range of projects, each tailored to meet specific client needs with precision and efficiency. Below are some of our most notable achievements:

Sl. No.	Project Name	Client	Project Location	Project Duration		Project Scope
				Commencement Date	Completion Date	
1	30km - Water pipeline from GPP to AL-NUKHAILA Pumping station	AKT Oil services + Total Energies	From Arratawi to North Rumaila	March 2025	May 2025	Completed survey package, topographical survey by Drone and GNSS, + underground survey detection by GPR for detect the location and depth of crossings..... till hand overing to total energies.
2	ALNUKHAILA Water pumping station	AKT Oil services + Total Energies	North Rumaila	May 2025	May 2025	Topographical survey and underground detection, modeling all the station and finalizing with the engineering department to instruct the new items (new piping route, cables routes, and pipeline tie-in location)
3	WQ1 CS6 MOTD2 & PACO	AKT Oil services + BGC	WQ1	Nov 2024	Jan 2025	Full package of Topographical survey and underground detection, modeling all the station and finalizing with the engineering department to instruct the new items package of several cables route inside the CS6, with AG Piping route, with all tie-in locations.



4	Northern Power grid Project for The Missan Oil Field	Sinoc	Iraq- Missan	01-Dec-20	25-Feb-21	Geotechnical and Topographic Survey follow up
5	Solar Power Project	CGGC	Iraq-Basra-Block 9	15-Dec-21	10-Jan-22	Geological Investigation & precast pile & surveying works
6	EPCC For Phase 1	DOCG	Iraq-Basra-Block 9	28-Jan-23	working	Provision of Geotechnical Survey + surveying works
7	SIBA FLOWLINE PROJECT	DOCG	Iraq-Basra-Siba	25-Mar-23	26-Apr-23	Provision of Geotechnical Survey + surveying works
8	Camp For KEC	MFCO	Basra-Block 9	2018	2020	Geotechnical and Topographic Survey
9	Missan Buzurgan 53KM Oil Export Pipeline to Halfaya	DOCG	Missan Buzurgan to Halfaya	2019	2020	Geotechnical and Topographic Survey
10	Projects in Khor Al Zubair port	The General company for ports of Iraq	Basra	2018	2018	Piles Construction testing & inspection with surveying follow up
11	GRS 2	CMIT	Missan-Iraq	2019	2019	Civil Engineering Test And surveying inspection
12	WATER INTAKE FACILITY PILING WORK SWP	CPP	Iraq-Basra-Block 9	2023	2023	Steel Pipe Pile in the reiver + Surveying works
13	EPCC FOR FIELD SURFACE FACILITY FOR 60KBOPD SUSTAINED	DOCG	Iraq-Basra-Block 9	2023	Working	Geotechnical and Topographic Survey and survey inspections
14	"EPCC FOR FIELD SURFACE FACILITY FOR 60KBOPD SUSTAINED	DOCG	Iraq-Basra-Block 9	2023	Working	PROVISION OF GEOTECHNICAL SURVEY with a surveying inspection and follow up
15	Developing road intersections (AL-NUSSOR AND QAHTAN) Squares	TEC	Iraq-Baghdad	2024	2024	Topographical survey (UG + AG) establishing BMs with all the drafting and reports for the biggest developing project in Baghdad for build a new 3 tunnels and 2 bridges with the facilities.
16	"GEOTECHNICAL SURVEY FOR	NORINCO INTERNATIONAL COOPERATION LTD.	Iraq-Baghdad-Nahrwan	2024-4	2024-6	"CONTRACT FOR TECHNOLOGY SERVICE OF GEOTECHNICAL SURVEY FOR

	PROVISION OF ELECTRICAL CONNECTION"					PROVISION OF ELECTRICAL CONNECTION EPCC SERVICE OF EBS OILFIELD TO NATIONAL GRID AT S2 AREA"
17	Road design _ profiles and alignment sheets	PSGS (Approved BOC)	Basrah – WQ2	2024	2024	Preparing the geomatics design for several roads inside WQ2 oil field, including the profile and alignment sheets with calculating the required materials (soil, subbase, asphalts) with the cut and fill quantities
18						



▪ Client List:

 <p>PetroChina</p>		 <p>中国石油天然气管道局 China Petroleum Pipeline Bureau</p>
 <p>DOCG</p>		 <p>General Trading & Contracting</p>
<p>TEC</p>	 <p>中国能建 ENERGY CHINA</p>	 <p>PRIME SUPPORT General Services</p>
 <p>北方工业 NORINCO</p>		

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