



Janaen Arbaeloo Co.



### Projects Implemented by Company

- Engineering & construction of buildings & Towers.
- Construction of residential compounds.
- Design, manufacturing & installation of different oil tanks.
- Supply and installation of oil and gas pipes.
- Testing and monitoring devices.
- Manifolds.
- Oil and gas separation stations.
- Water pumping and injection stations.
- Supply of all types of valves and connection joints.
- Supply of fire-fighting systems.
- Oil wells drilling & supply of all equipment & accessories.
- Engineering & Hydrostatic Tests.
- Construction of LPG gas stations.
- Construction and supply of small fixed and portable refineries.



## Construction Projects

The department of engineering and construction of our company has implemented many different projects of this type including the construction of 500 residential houses in Ashty complex in Erbil with areas ranging between 205 m<sup>2</sup>, 250 m<sup>2</sup>, 300 m<sup>2</sup> and 400 m<sup>2</sup> in a modern style using the best construction materials, whereby our company played a prominent role in Ashty City Project.

This project is one of the excellent and successful projects from the point of view of engineering design, building style, materials used and also from the artistic and agricultural point of view. The investing companies of this project include: Kar Group, Iskan Company for Contracting and Galala Group. Our company obtained an appreciation certificate from these companies for implementing the project in the most modern standards.





## **Manufacturing and Supply of Oil Tanks: Including the following:**

### **ENGINEERING / DESIGN / MANUFACTURING / ERECTION**

Whereby our specialization in this field was enhanced by our direct relationships with factories of oil tanks manufacturers of different sizes and types in addition to our relationships with big international companies and factories.

We use steel and steel alloys which are imported from international origins in Western Europe, Japan, South Korea and other origins according to tank's type and client's request.

Lafawe Bahez Company for Oil Services montage and assembly workshops supported by advanced equipment and machines with experienced engineering and technical personnel who have wide experience in assembling and erecting Oil Tanks, Pressure Vessels and Spherical Tanks.



# **STAGES OF INSTALLATION And WELDING PROFICIENCY**

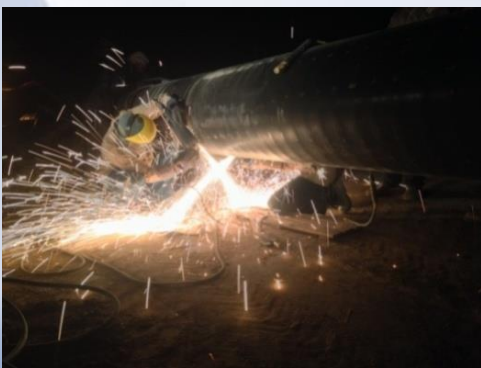
Our specialized and experienced staff have the capability of doing all different types of welding (SMAW, GTAW, FCAW, SAW, GMAW) in addition to the ORBITAL WELDING PROCESSES.

They work according to the known international measurements and standards.





## OIL & GAS PIPELINE



### LAYING OF PIPELINES

Oil pipelines engineering is regarded as one of the most important sectors in oil and gas and it requires the presence of management with high experience in all stages, depending on the expertise and technical as well as all engineering efficiency in implementing the projects of installation and laying of oil pipelines in different diameters, up to 58 inch. Oil pipelines is one of mechanical special topics which deals with laying, preparing and testing of pipelines which are used in transporting oil products, crude oil and gas from the production site to the storage or export locations. After doing a lot of these projects, our engineering department has gained the high skills and necessary proficiency to implement such works according to the highest standards through all stages, including the design, construction, excavation, welding, pipes burial and testing and actual operation.



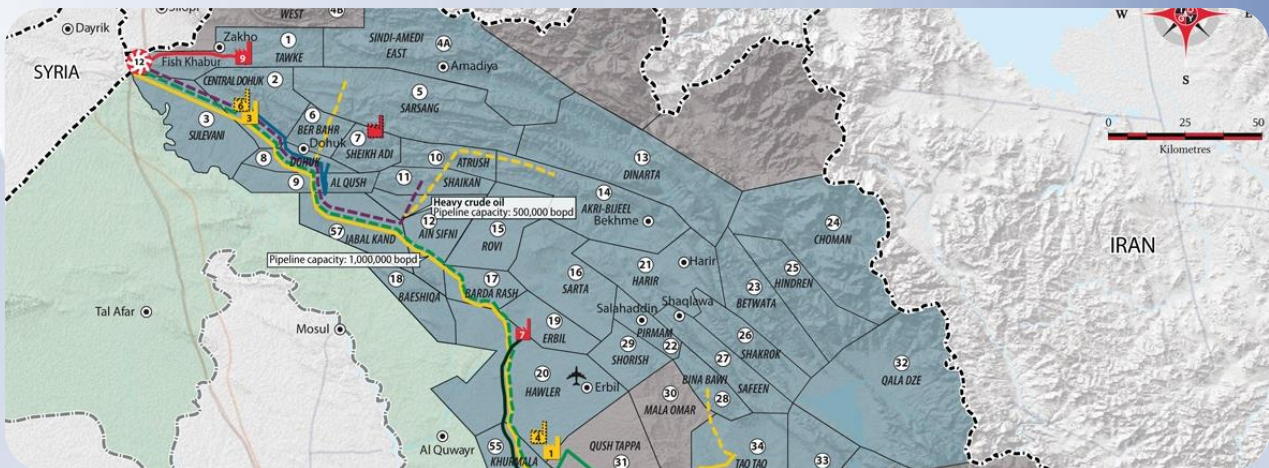
## Oil and Gas Pipelines Projects

1. Construction and laying of gas pipeline (DNO Bandava Gas Station –Kashi Power Plant / Bandava) project in Tawki field in Duhok which is supervised by Kar Group, with a length of 40 Km. and a diameter of 36 inches. The project included the road construction, laying of pipes, welding, excavation, lowering of pipes, pipes burial in addition to the engineering tests. The project was completed within 5 months.





2. The construction and laying of gas pipeline (DNO gas station – Bandava connection gas station) project, at a length of 10 Km. and a diameter of 36 inch, for a duration of 45 days. This project was complimentary to the previous project, whereby the pipeline was passing through rugged terrain between mountains and valleys. The project was completed during very difficult weather conditions, whereby our company received an appreciation letter from DNO (Norwegian company) which was supervising the project.





### 3- Equipment Installation Projects

A-Installation and fixing of three 36 inch valves on Jihan export line in Smail area at Km. 168.

B-Installation and fixing of three 36 inch valves on Jihan export line in Shaikhan area at Km. 117.

C-Installation and fixing of two 16 inch valves on Jihan export line in Shikhalekl area at Km. 84.





- 4- Construction and Laying of Crude Oil Pipeline Project at Khurmala Field between the stations (South Station – CPS1 Station) at a length of 10 Km. and diameter 36 inch for a duration of 45 days.

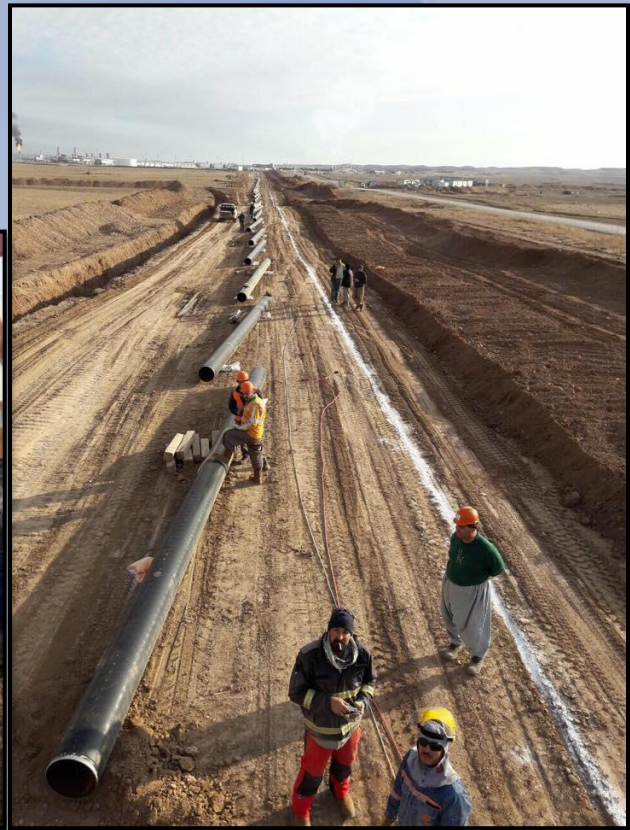


- 5- Construction and Laying of Crude Oil Pipeline Project (Bai Hassan - Avana) at a length of 5 Km. and diameter 20 inch for a duration of 45 days.





- 6- Construction and Laying of Crude Oil Pipeline Project (Avana - Sarallu) at a length of 5 Km. and diameter 24 inch for duration of 30 days.



- 7-Construction and Laying of Crude Oil Pipeline Project (Sarallu - Sarbashakh) at a length of 3 Km. and diameter 36 inch for a duration of 25 days.



- 8- Construction and Laying of Crude Oil Pipeline Project at Khurmala field between the stations (North Station–CPS Station) at a length of 7.5 Km. and diameter 24 inch for a duration of 60 days.

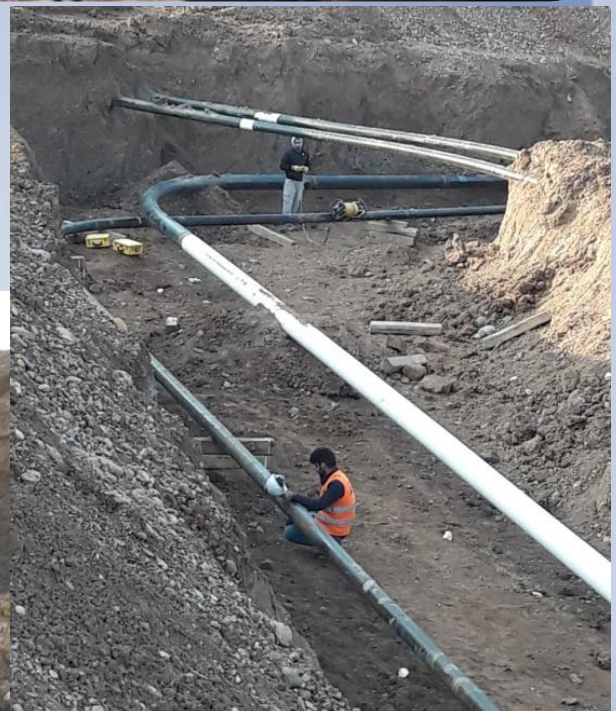




- 9- Construction and Laying of Crude Oil Pipeline Project at Khurmala field between the stations (Middle Station – CPS Station) at a length of 7.5 Km. and diameter 24 inch for a duration of 90 days.



- 10- Construction and Laying of Crude Oil Pipeline Project at Khurmala field between the stations (CPS1 – CPS2) at a length of 3 Km. and diameter 16 inch for a duration of 35 days.





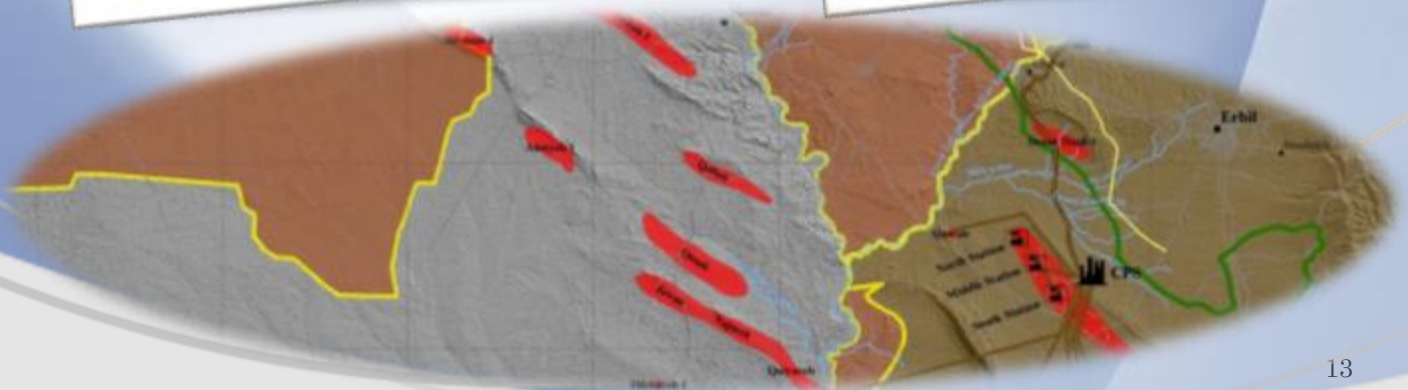
11- Construction and Laying of Crude Oil Pipeline Project between (Khurmala Oil Field – ZabJihan Export Line) at a length of 40 Km. and diameter 36 inch. The project included the road construction, laying of pipes, welding, excavation, pipes lowering, pipes burial in addition to the engineering tests for a period of 5 months.



12- Construction and Laying of Crude Oil Pipeline Project in Khurmala Oil Field between the stations (CPS1 – CPS2) at a length of 2 Km. and diameter 10 inch for a period of 30 days.



13- Construction and Laying of Crude Oil Pipeline Project in Khurmala Oil Field between the stations (CPS1 – CPS2) at a length of 2 Km. and diameter 36 inch for a period of 31 days.





- 14- Construction and Laying of Crude Oil Pipeline Project in Khurmala Oil Field between the stations (CPS1 – CPS2) at a length of 6 Km. and diameter 6 inch for a period of 45 days.



- 15- Connection of pipes net inside CPS station in Khurmala Oil field 12000 Dai Inch.





16- Connection of pipes net inside CPS 2 in Khurmala Oil Field 12000 Dai Inch.



17- Mechanical works and installing equipment for Waste Water Treatment station and other similar projects which our company has implemented according to the international standards, bearing in mind that this type of water treatment plants are of a sole type in Iraq.



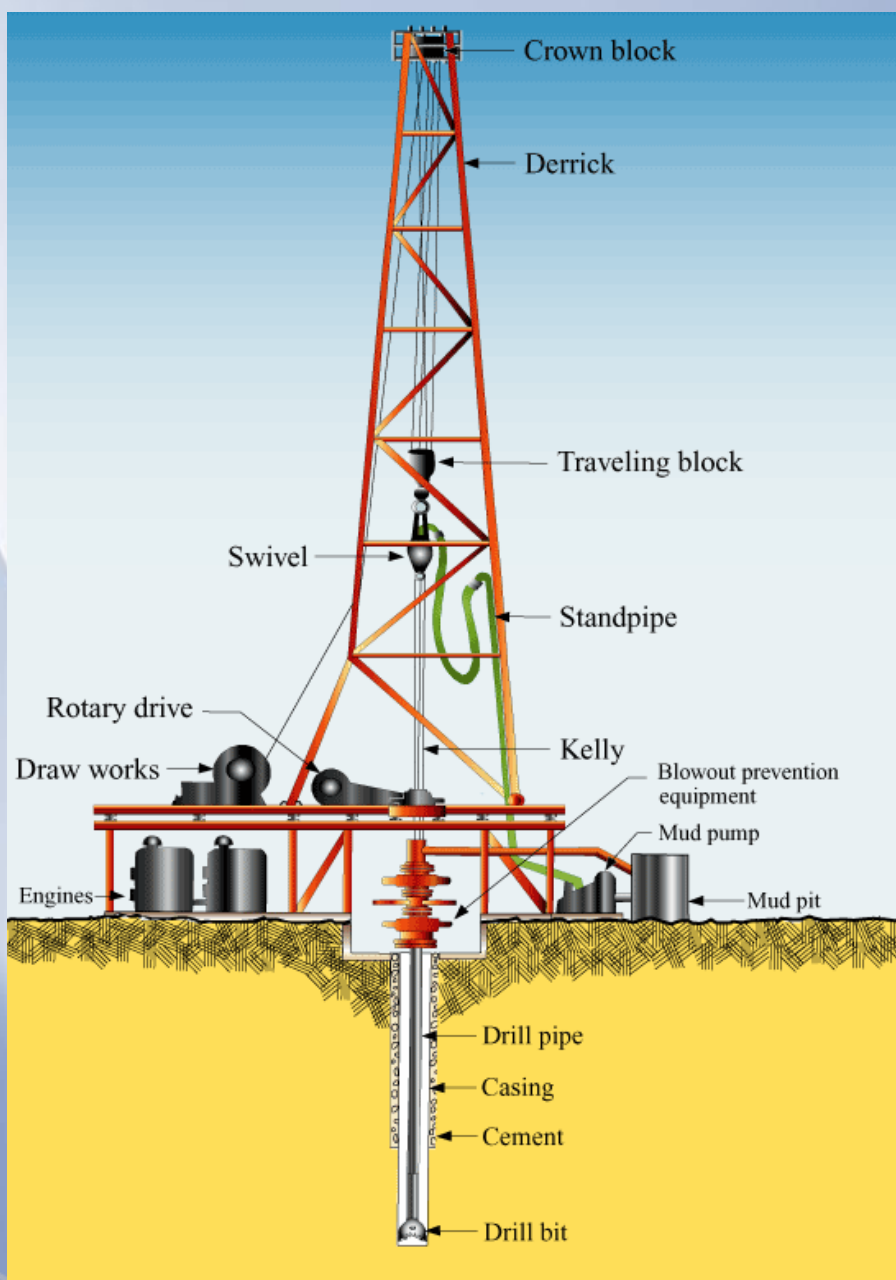


18 – The construction of Main Gate of CPS2 in Khurmala Oil Field.



## OIL WELLS DRILLING

Our company has the technical, engineering, administrative and financial capabilities required for oil and gas wells drilling at any site inside the oil and gas fields in Iraq. Our engineering personnel have the cumulative experiences which enable them to clean the heads of wells and to do field development and its rehabilitation.





## First: Hydrostatic Tests

The hydrostatic test is regarded as a method for detecting any leakages which happen in pressure pipes like pipelines and tanks. This test indicates the non-leakage and represents an optimum method of test to prove that the pipes and tanks are defect-free and there are no points at which oil or gas may leak while at pressure during operation, regardless of the way of performing the hydrostatic test.

The hydrostatic test, especially in pipeline manufacturing industry is an art as well as science, and is still one of the safest methods to prove that the pressure vessels like pipelines will work safely in accordance with the designed pressure according to the international standards.



## Second: Engineering Tests QA – QC

The engineering section of our company runs the periodical tests and shop tests in addition to the destructive and non-destructive tests (N.D.T) in oil and energy sector depending on its consultative and implementing engineers who possess long experience and the most modern testing devices in this regard, such as the X-Ray test with the inspection and evaluation of radioactive thin sections in addition to other equipment and techniques. Since our company is distinctive of being non-bias in the services it provides depending on the adopted international codes & standards: ASME, ASTM, API, DIN, BS, JIS, etc..or any standards required by the client. We can also do the Routine & Annual Inspection of the following devices and issue the relevant certificates of validity and safety:

- 1- Water & Fire Tube Steam Boilers.
- 2- Pressure Vessels Towers & Drums.
- 3- Heat Exchangers.
- 4- Fired Heaters & Furnaces.
- 5- Fixed & Floating Roof Tanks.
- 6- Hoisting Devices.
- 7- Safety & Relief Valves.
- 8- Surface & Underground Pipelines: We have modern X-Ray testing devices of the type (Panoramic) which can scan in all directions and is portable with central system. It can take photos of different types of diameters 10 inch till 60 inch. These devices are characterized by being accurate, easy and quick testing which saves time. We have experienced and trained staff who have operators' certificates from manufacturing company.
- 9- Piping Systems.
- 10- Compressor-Turbines-Pumps-F-D Fan.
- 11- Measurement and analysis of vibrations with full predictive maintenance system of rotating equipment and doing non-destructive tests for different Machining, Forming & Welding works in addition to the usual NDT tests.





## Construction of LPG Stations

The company constructed a complete LPG Station in Comezard Village which belongs to Bardarash Locality on an area of 20000 m<sup>2</sup> according to the engineering standards followed internationally, at a capacity of 5000 gas cylinders daily, whereby our company obtained an appreciation certificate from the ministry of industry and trade of KRG/ Directorate of Private Sector Factories/Duhok for building the LPG factory according to the required standard & technical specifications.





### **Construction & Supply of Small Fixed and Portable Refineries**

Our company does the construction and supply of fixed and portable refineries for refining crude oil with all accessories and requirements from approved local and international origins with competitive prices and at capacities reaching 10000 barrels per day.

Our company pays attention to keeping clean environment, for that reason it constructs refineries according to environment-friendly designs.





## Insurance

Insurance is a guarantee to stand against probable losses during implementation works, and it is a guarantee for the rights of workers and third parties in case of probable risks.

The policy of LafaweBahez Company is not to ignore any issue during the projects implementation and preserving manpower and won expertise, for that reason the company depended from the start to get an insurance cover for all executed projects as well as the personnel working on them from the biggest insurance companies.



## Health & Safety Policy

LafaweBahez Company for Construction & Mechanical Contracts gives first priorities to the issues of safety and security based on its patriotic, humanitarian and environmental responsibilities, whereby it is keen on spread public awareness amongst their staff media and also the surrounding local inhabitants near its projects to secure their safety and protect the environment from any pollution. For that reason, the company has allocated experienced staff in safety and security who explain all rules of safety and security to all new workers and make sure that they abide themselves by following all rules and regulations by wearing the suitable safety equipment and tools after testing all equipment and tools to make sure that they are in good condition before starting work and don't allow the non-authorized operators to operate the equipment and machines.





## Machines & Equipment

Our company possesses a big fleet of different equipment, machines and vehicles of different types and shapes which are used for the execution of its projects onsite, whereby there isn't any need to hire or import machines which will enable the company to fulfill its obligations according to the schedule. All machines and equipment are subjected to, at least, annual inspection by recognized testing and maintenance companies in Iraq.

#	Item	N.	
1	Mobile Crane 50 Ton	1	set
2	Mobile Crane 20 Ton	1	set
3	Mobile Crane 12 Ton	1	set
4	Mobile Crane 6 Ton	1	set
5	Hydraulic Excavators 300	3	.pc
6	Hydraulic Excavators 350	2	.pc
7	Bulldozer caterpillar	2	.pc
8	Grader	2	.pc
9	shovel	2	.pc
10	PIPE BENDING MACHINE 20", 24", 36"	1	.pc
11	PIPE BENDING MACHINE 6", 8", ..., 20"	1	.pc
12	Pipeline internal clamp (8")	2	.pc
13	Pipeline internal clamp (10")	2	.pc
14	Pipeline internal clamp (12")	2	.pc
15	Pipeline internal clamp (14")	2	.pc
16	Pipeline internal clamp (16")	2	.pc
17	Pipeline internal clamp (18")	2	.pc
18	Pipeline internal clamp (20")	2	.pc
19	Pipeline internal clamp (24")	2	.pc
20	Pipeline internal clamp (36")	2	.pc
21	Pipeline internal clamp (42")	2	.pc
22	Pipeline external clamp (8")	3	.pc
23	Pipeline external clamp (10")	2	.pc
24	Pipeline external clamp (12")	2	.pc







26	Pipeline external clamp (16")	4	.pc
27	Pipeline external clamp (18")	2	.pc
28	Pipeline external clamp (20")	2	.pc
29	Pipeline external clamp (22")	2	.pc
30	Pipeline external clamp (24")	3	.pc
31	Pipeline external clamp (32")	2	.pc
32	Pipeline external clamp (36")	2	.pc
33	Pipeline external clamp (42")	2	.pc
34	Welding Machine 400A	30	.pc
35	side boom	6	.pc
36	low loader truck	1	.pc
37	lorry truck	1	.pc
38	tractor	8	.pc
39	tanker water	2	.pc
40	tanker fuel	1	20000 LT
41	oxy fuel welding and cutting machine	2	.pc
42	Oxygen bottles	10	.pc
43	LPG bottles	20	.pc
44	Automatic Submerged Arc Welding Machine (horizontal)	2	.pc
45	Automatic Submerged Arc Welding Machine (tractor)	1	.pc
46	chain driven pipe cutting machine	4	.pc
47	Airless	2	.pc
48	Kw Water Pump 200 m3 /h 4bar 45	1	.pc
49	Electrically Driven Air Compressor 50 hp	1	set
50	Electrically Driven Air Compressor 7,5 hp	3	set
51	Diesel Driven Air Compressor (12m3/min. - 7 Bar)	1	set
52	Air Compressor (1500 lt/min.-8 Bar)	1	set
53	Pressure Pump (180 Bar)	1	.pc
54	Sand Blasting Set	3	set
55	Mobile Diesel Drive Electro Mechanic Generator (35 KV)	1	.pc

56	Mobile Diesel Drive Electro Mechanic Generator (350 A)	1	.pc
57	Diesel Generator 100 KV	5	set
58	Diesel Generator 50 KV	5	set
59	Water pump 30 bar 8 piston	1	.pc
60	Hydrostatic Pipe Test Recorder, Portable	3	.pc
61	water pressure pump 210 bar	2	.pc
62	Electrical Heating Furnace	6	.pc
63	Hydraulically Pipe Press (4")	3	.pc
64	Hydraulically Pipe Press (a2")	1	.pc
65	Thread Machine	1	.pc
66	Pipe Scaffold Set	250	m2
67	Temperature and humidity Gauge Detector	1	.pc
68	Paint thickness Gauge Detector	1	.pc
69	Holiday Test Device	1	.pc
70	pickup 4*4	5	.pc
71	bus 24per	5	.pc
72	Halogen Portable Work light W/ magnet - 500 Watt	16	.pc
73	Site Switchboard	10	set
74	Main Switchboard	10	.pc
75	Electric Cable , Extension Cable, Welding Cable	2	.pc
76	Vacuum Cleaner	30	set
77	Prefabricate Cabin	1	.pc
78	Office cabin		
79	Container	20	.pc
80	Steel Erection Tools	2	.pc
81	Wire Rope Cutters	20	set
82	Ground Anchors	1	.pc
83	Wire Rope Blocks	34	.pc
84	Cable Pullers	12	.pc
85	Chain Pullers	4	.pc





## Photos of Some Projects









## Photos of Machines & Equipment for civil works





## Photos of Machines & Equipment for Pipeline works



Portable welding tents



Welding machine



Pipeline internal clamp



Pipeline external clamp



Pipe Bending Machine



Chain driven pipe cutting machine



Pipeline road crossing machine



Pipeline side booms machine



## Photos of Machines & Equipment for Hydrostatic test



Electronic  
temperature



Hydrostatic test  
recorder



Hydrostatic test Water  
high pressure pump



Hydrostatic test air Compressor



Hydrostatic test Water pressure pump



Pig receiver



Pig launcher

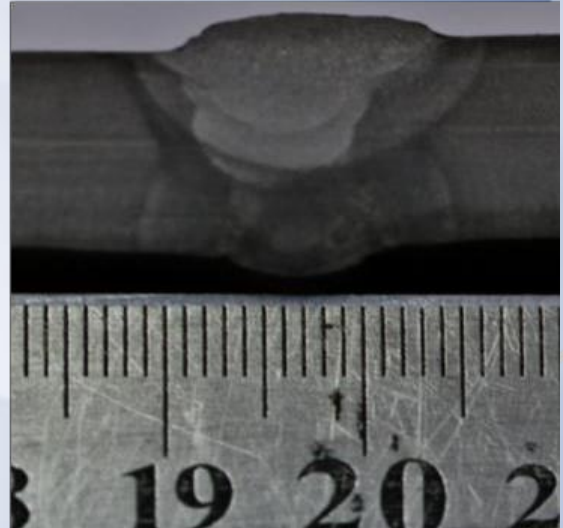
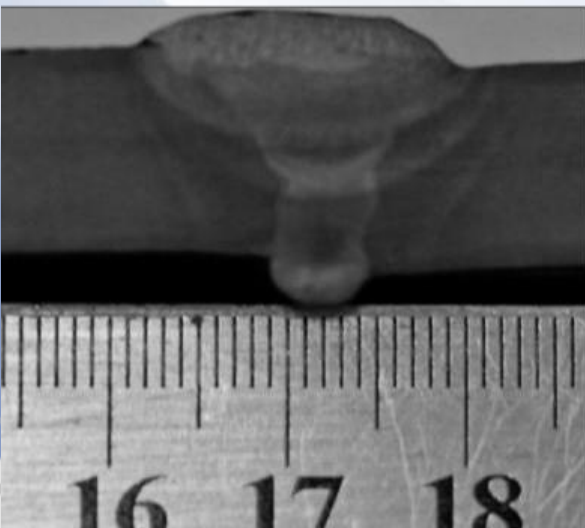


## Photos of Machines & Equipment for Engineering Tests QA – QC



❖ As weld

❖ 1<sup>st</sup> repair



## **Janaen Arbaeloo**

### **Janaen Arbaeloo Co.**

For constructions & mechanical contracting

07501700009

شركة جنائن اربائيلو

للمقاولات الانشائية والميكانيكية

07501700009

كومپانيای جهنائن اربائیلو

بۆ به‌لیندهر ایه‌تی بیناسازی ومیکانیکی /سنورداری تاییه‌ت

07501700009

[info@janaen-erbaeloo.com](mailto:info@janaen-erbaeloo.com)