

**TENDER BOOK FOR SUPPLY SPARE PARTS FOR DRILLING RIG ZJ 40
AND EXPERTS OPERATING THE RIG and training technical team
work**

1-SPARE PARTS FOR DRILLING RIG ZJ 40:

ITEM	Description	Part Number	Qty
1	Crown block : Main sheave bearing right	37941K (Φ 203.2* Φ 276.225*95.25	4
2	Crown-o-matic that fix on A beam.	Heavy hammer	1
3	Quick-release valve	KPM-L15	6
4	Air faucet	XJ-L15	4
5	Pneumatic clutch main body-Quick release valve	KPJ-L	6
6	Drawworks- Toggle valve	FP-L6A	1
7	Water cooling hose of drawworks	25I-15000C , 25I-10000C	4
8	Drawworks-Air control box (The quick connector)	NPT 1/4	40
9	The air control hose from driller cabin to drawworks quick connector	8I-15000NPT 1/4	40
10	Main air pipelines from the pneumatic house to the ground	51II-20000C 1.2MPa	1
11	Connection pipelines between the ground cable tray.	51II-2000C 1.2MPa	2
12	Air pipes from the ground to the intermediate.	51II-3500C 1.2MPa	2
13	Main air pipelines from the intermediate to the elevated	51II-5000C	2
14	Main air pipelines from the elevated cable tray to the reserve tank on drill floor	51II-5001C 1.2MPa	1
15	Main tubes of left and right air winch	51-3500C	2
16	Gas cylinder safety valve on drill floor	A44Y--16C	1
17	Main air tube from the gas cylinder to the right side	51II-6000C 1.2MPa	1
18	Main air tube from the gas cylinder to the left side	51II-6000C 1.2MPa	1
19	Main air tube from the gas cylinder to drawworks	25II-7000C	1
20	HPU- machine pump work FOR hyd-cathead /hyd- cyclinder/hyd-tong	CY14-1B	2
21	Machine and tool HPU- Water cooling pipe	38I-20000C	4
22	Drawworks- flexible wire line	ZJ40 32 mm	2
23	Drilling rotary hose	ZJ40 4inch	2
24	Discharge high pressure hose of mud pump	4-1003	1
25	Water tank-4" water pipeline	ID127-2P-3mpa	2

26	Fire pump	1000 kPa	2
27	Cold start air compressor	ZY-1.42/10	2
28	Centrifugal pump	FX-6582	4
29	Fuel line	LM- 3321Q	1
30	Level gauge	Z1K101	4
31	Flow meter and sensors	Z1K2043	2
32	The pipe stack from BOP remote control to BOP body	YCQ1280-7	1
33	Air hose from rig floor to mast	51I-6000C	6
34	Air hose from rig floor to mast	13I-6000C	6
35	The hose form BOP body to chock manifold and kill manifold 1000psi	132-7001C	1
36	Cooling water hose	51I-13000C	2
37	Cooling water hose	51I-11000C	2
38	Cooling water hose	51I-14000C	2
39	Cooling water hose	51I-15000C	2
40	Cooling water hose	51I-16000C	4
41	Cooling water hose	51I-12000C	4
42	Cooling water hose	25I-20000C	4
	Driller's cabin output panel:		
43	DW encode control	12 core cable	2
44	Plug and socket for the cable of the Blower for the Drawwork 16A, 20Core	XN-805	20
45	Rotary table cable of the blower	S1-20154	65m
46	Plug and socket for the desander pump cable of the No.2 tank Three phase-Four poles 150A, 4 core	JS-4315	20
47	mud pump house control panel	LA53-2T	2
48	Spray and motor and pipelines of mud pump	SP8564	2
49	No.3 Mud tank Plug Three-phase quadropole 200A	XC-1464	16
50	No.2 Mud tank Plug Three-phase quadropole 200A	L1-9725	12
51	No.2 Mud tank Plug Three-phase quadropole 150A	DS-2054	12
52	No.2 Mud tank Plug Three-phase quadropole 150A	DS-2059	12
53	No.1 Mud tank Plug Three-phase quadropole 60A	MT-3658	16
54	Cooling tank Plug Three-phase quadropole 200A	PQ-7189	12
55	Mud pump control cable	XC-2384	100 m
56	Sand pump control cable	Y-6279	100 m
57	Spare power cable	ZJ552	75 m
58	Logging power cable	Jl-1268 3×6+1×4	75 m

59	Plug and socket for Sand pump power cable	F1-448-25GZ	75m
60	Plug and socket for control 1 2 cable Trip tank	JM-6622 15yt	26
61	Desander Control cable	BS-6643	115 m
62	Deslitter Control cable	KD-1672	115 m
63	Trip tank control 1 cable	L1-554	115 m
64	Trip pump power cable	FO-6482	100 m
65	Pill pump Cable	VM-254	75 m
66	Cable of the Cooling blower	Q8-20648	42 m
67	Breaker B16-400V-3P	MT 350A 450718	1
68	Intermediate relay 24V-DC DYF-11A	RD-5267	2
69	Secured	Max 6.3A 800V 4mm ² /600v	2
70	Electromagnetic valve 24V DC 4.8W	V5221-08	12
71	Power input cable	UP-20	3
72	Control panel power input cable	IQ-100	6
73	Intermediate relay 24V DC 1.5W	KT1 DMB51CM 24B006	5
74	Outlet panel of top VFD house Ex	Ex. Alarm acousto-optic lighting	30
75	Cable Assy, Power, W/Connector ,Blk	123550-BLK-100-B	1
76	Cable Assy, Power, W/Connector ,Wht	123550-WHT-100-B	1
77	Cable Assy, Power, W/Connector ,Red	123550-RED-100-B	1
78	Cable Assy, Composite 42 Cond	123985-100-B	1
	Cable Assy, Aux Power 18 Cond	124458-100-B	1
79	Cable,PWR,313MCM,W/QD,ASSY,BLACK	123550-BLK-50-S	1
80	Cable,PWR,313MCM,W/QD,ASSY,WHITE	123550-WHT-50-S	1
81	Cable,PWR,313MCM,W/QD,ASSY,RED	123550-RED-50-S	1
82	CPU For PLC	156978	1
83	VFD outlet panel plug and socket Three-phase quadrapole 60A	FD-P1001	20
84	VFD outlet panel plug and socket Three-phase quadrapole 60A	FD-P1002	20
85	VFD outlet panel plug and socket Three-phase quadrapole 150A	FD-P1003	12
86	VFD outlet panel plug and socket Three-phase quadrapole 100A	FD-P1004	16
87	VFD outlet panel plug and socket Three-phase 200A	FD-P1005	12
88	VFD outlet panel plug and socket Three-phase five pole	FD-P1006	20

REMARKS :

- 1-the materials must be new and not renewed
- 2-the equipment must be installed on the rig without any modification ,
In case of a equivalent part number, it must be installed without any modify
- 3-the bidder must provide technical sheet showing the specification of the materials with technical offer
- 4- the bidder must provide collection and installation catalogues included all mechanical and electrical diagrams, operating and maintenance catalog for each equipment with shipment
- 5-the bidder adhere to provide a complete and integrated copy of the operation rig program loaded on the processor of PLC in SCR and should be able to modify and loaded on two laptop provided by the bidder

2-OPERATING THE RIG ZJ 40 and training technical team work:

THE RIG'S SPECIFICATION

- The rig made in china
- Electric RIG equipped with 3 generator sets (D3512) + emergency set
- Drilling deeps up to 4000 M and the capacity of the rig is 350 tons
- equipped with a top drive (Varco T.D.S10) that works on alternator current
- Hydraulic disc brake system
- Equipped with eddy current brake

THE AIM OF THE PROJECT:

Operating the RIG to work and training a technical staff to

Maintain and continue the work of the RIG after completing the missing parts, collecting and installation

REQUIEMENT TO ACHIEVE:

1-Operating the electrical system, which includes operating the generator sets and ensuring their compatibility during loading and working, operating the control systems **PLC** which responsible for operating the units **SCR** , and leading the integrated operations on the Rig ,operating the control and driving circuits of the system which responsible for operating drawwork and raising the derrick and operating the mud pumps , rotor and brake

2 - Operating the control and driving circuits of the system **VFD** which responsible for operating top drive

3- Connecting and operating the main hydraulic power unit for all equipment

4-calibration and operation the control panel devices and gauges

Pressure, weight, torque, gas indicator, charts, monitor cameras and sensors

5- Connecting and operation of air circuit and related equipment: compressors, air winches, Derrick man winch, and operated elevator with rig

REMARKS

1-The bidder must be train technical team work for two months through the presence of operating and investment experts, after the operation and delivery is ready, and start their investment Practically and the team work are as follows:

-Electrician /4 PERSONS/

- Mechanical /4 PERSONS/

- Technician Equipment /4 PERSONS/

-Driller /6 PERSONS/

-Technical instrument /2 PERSONS/

2-The bidder is committed to complete and supply all UN noticed equipments among two months after completed all inspection and erection jobs

3-The bidder adhere to deliver the RIG ready for up and down operations, all operations Related to drilling, and all designation parameters of its equipment.

4-The bidder adhere to ensure that the equipment and supplies related to operation, control, Monitoring and programming system work, and all circuits for a period of one year from the Date of the initial receipt of the RIG, are ready for work.

- 5- The bidder should be provide all certification and documentation witch authorized by the manufacture company to perform this job
- 6-The bidder adhere to send experts during the warranty period for one year after the operating when needed.
- 7-The Syrian Oil Company provides the necessary manpower and machinery (crane - truck) and provides fuel to the RIG during its operations
- 8-The Syrian Oil Company provides transportation, accommodation and food for experts during the job period