

INVITATION TO SUBMIT TECHNICAL AND COMMERCIAL OFFERS

Tubular Running Services

We hereby invite qualified and experienced companies to submit their technical and commercial proposals for the provision of Tubular Running Services in accordance with the scope of work outlined in the attached document.

The scope includes, but is not limited to:

- Provision of personnel, equipment, consumables, and services for casing, liner, and tubing running operations.
- Execution of tubular running operations for multiple casing sizes including 20", 13 3/8", 9 5/8", and 7".
- Supply of power tongs, elevators, slips, hydraulic power units, torque monitoring systems, and casing cutting tools.
- Preventive maintenance and repair of all equipment prior to each operation.
- Compliance with operational safety standards and provision of certified equipment and experienced personnel.
- Preparation and submission of detailed job reports including equipment used, crew composition, and operational logs.

The scope of work covers re-entry into one well and drilling of two exploration wells located in the Ghadames Basin, Block 95/96.

Submission Guidelines

- Offers must be submitted in sealed envelopes waxed in red.
- Both technical and commercial proposals must be included.
- Pricing details must be confined to the commercial offer only.
- Deadline for submission: within five (5) days from the date of this announcement.

We look forward to receiving your proposals.

**SPECIFICATIONS OF EQUIPMENT AND SERVICES PROVIDED BY
THE CONTRACTOR**

4.2.7 Power Tang Service / Tubing Running / Casing Cutting

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4.2.7.1. Tang Service Automation / Casing Running / Casing Cutting

In the context of its Exploration activity in Libya, the Client, as the Contracting Authority, plans to drill two (02) hydrocarbon exploration wells onshore, on the 95/96 area located in Libya.

To meet the Client's needs, the Contractor must provide the following:

- The Contractor must provide personnel, equipment, consumables, and all necessary services for the execution of casing, liner, and tubing running operations for a well in accordance with the specifications issued by the Client on the 95/96 area in Libya.

This service must include (but not limited to):

- Running and/or retrieving casing, tubing, or liners from the well as per the Drilling Supervisor's instructions on site.
- All services, technicians, technical support, material, equipment supply, transportation, and any other item necessary for the execution of this service unless specifically mentioned to be provided by the Client or others.
- Providing power tongs, elevators, slips, hydraulic power units, and any other necessary tools to carry out the program. Providing all backup equipment on site and for all power tong replacement slip elements, hydraulic hoses, and adjustments if necessary.- Providing a Torque Monitoring Equipment with an "Art-Computerized System" with chart.
- Preventive maintenance, maintenance, and repair of all Contractor's equipment on the drilling site before each operation.
- The Contractor must provide all personnel, equipment, and material for Casing/Tubing Running and associated services as well as their backup.
- Casing Cutter or Plasma Cutter for diameters 13 3/8", 9 5/8", 7".
- The planned casing program is as follows:

For re-entry

- | | | | |
|--------------|----|-------------------------------|-----------|
| - 8"1/2 hole | 7" | Liner 29# Premium thread P110 | @ 8440ft. |
|--------------|----|-------------------------------|-----------|

For well 1

- | | | | |
|---------------|--------|-----------------------------------|------------|
| - 26"hole | 20" | Casing 94# BTC K55 | @ 250 ft. |
| - 16" hole | 13"3/8 | Casing 61# 68BTC k55 | @ 3300 ft. |
| - 12"1/4 hole | 9"5/8 | Casing 47# Premium thread/BTC N80 | @ 6150 ft. |
| - 8"1/2 hole | 7" | Liner 29# Premium thread P110 | @ 9422ft. |

For well 2

- | | | | |
|---------------|--------|-----------------------------------|------------|
| - 26"hole | 20" | Casing 94# BTC K55 | @ 250 ft. |
| - 16" hole | 13"3/8 | Casing 61/68# BTC k55 | @ 3300 ft. |
| - 12"1/4 hole | 9"5/8 | Casing 47# Premium thread/BTC N80 | @ 6150 ft |
| - 8"1/2 hole | 7" | Liner 29# Premium thread P110 | @ 9422ft. |

4.2.7.1. Equipment

The choice and quality of the required equipment are essential for the smooth progress of tubular descent operations (casing, liner, completion, etc.) and for the quality of screwing at the required torque without damaging the threads.

This service must include (but not limited to):

- Power Tong:

Complete kit to ensure the descent of 20", 13 3/8", 9 5/8", & 7" casings and optional 4-1/2" Tubing.

Jam unit:

Complete kit to ensure the descent of 9 5/8" & 7" casings and optional 4-1/2" Tubing.

- Casing Cutter:

Complete kit to ensure the cutting of 13 3/8", 9 5/8", 7" casings.

Complete kit for the Power Tong Service / Casing Running / Casing Cutting for corresponding casings to the well design, as follows:

20" Tubular Running Equipment

Item	Qty	Description
1	2	B-Type CASING MANUAL TONG FULLY EQUIPED WITH: 2 SET OF TORQUE GAUGES SET OF JAWS FOR 20" LIFT CYLINDER ACCESSOIRES (DIES, ROLLERS,ETC.)
3	2	SIDE DOOR ELEVATOR 150 TON 20"
4	2	SINGLE JOINT ELEVATOR 20" WITH SLINGS
5	1 SET	N° 3 KLEPO PROTECTORS
6	1	STABBING GUIDE 20"
7	2	HAND CASING SLIP 20"
8	1	SAFETY CLAMP 20" (XXX)
9	1	DRIFT FOR 20"CASING

13 3/8" Tubular Running :

Item	Qty.	Description
1	2	HYDRAULIC POWER TONG FULL EQUIPPED WITH: 2 SET OF TORQUE GAUGES SET OF JAWS FOR 13 3/8" LIFT CYLINDER ACCESSOIRES (DIES, ROLLERS,ETC.)
2	2	HYDRAULIC POWER UNIT COMPLETE WITH: 2 SET OF HYDRAULIC HOSES
3	2	SIDE DOOR ELEVATOR 150 TON 13 3/8"
4	2	SINGLE JOINT ELEVATOR 13 3/8" WITH SLINGS
5	1 SET	N° 3 KLEPO PROTECTORS
6	1	STABBING GUIDE 13 3/8"
7	2	HAND CASING SLIP 13 3/8"
8	1	SAFETY CLAMP 13 3/8"
9	1	DRIFT FOR 13 3/8" CASING
10	1	CASING / PLASMA CUTTER

9 5/8" Tubular Running:

Item	Qty.	Description
1	2	HYDRAULIC POWER TONG FULL EQUIPPED WITH: 2 SET OF TORQUE GAUGES SET OF JAWS FOR 9 5/8" LIFT CYLINDER ACCESSOIRES (DIES, ROLLERS,ETC.)
2	2	HYDRAULIC POWER UNIT COMPLETE WITH: 2 SET OF HYDRAULIC HOSES
3	2	SIDE DOOR ELEVATOR 150 TON 9 5/8"
4	2	SINGLE JOINT ELEVATOR 9 5/8" WITH SLINGS
5	1 SET	N° 3 KLEPO PROTECTORS
6	1	STABBING GUIDE 9 5/8"
7	2	HAND CASING SLIP 9 5/8"
8	1	SAFETY CLAMP 9 5/8"
9	1	DRIFT FOR 9 5/8" CASING
10	2 SET	JAM UNIT
11	1	CASING CUTTER

7" Tubular Running for well 1

Item	Qty.	Description
1	2	HYDRAULIC POWER TONG FULL EQUIPPED WITH: 2 SET OF TORQUE GAUGES SET OF JAWS FOR 7" LIFT CYLINDER ACCESSOIRES (DIES, ROLLERS,ETC.)
2	2	HYDRAULIC POWER UNIT COMPLETE WITH: 2 SET OF HYDRAULIC HOSES
4	2	SIDE DOOR ELEVATOR 150 TON 7"
5	2	SINGLE JOINT ELEVATOR 7" WITH SLINGS
6	1 SET	N° 3 KLEPO PROTECTORS 7"
7	1	STABBING GUIDE 7"
8	2	HAND CASING SLIP 7"
9	1	SAFETY CLAMP 7"
10	1	DRIFT FOR 7" CASING
11	2 SET	JAM UNIT

Casing fill up tool, 13 3/8", 9 5/8" & 7" .

Item	Qty.	Description
1	1	Casing fill up tool

*** Transportation, installation of equipment, and spare parts are the responsibility of the Contractor.

7" Liner Running for re-entry

Item	Qty.	Description
1	2	HYDRAULIC POWER TONG FULL EQUIPPED WITH: 2 SET OF TORQUE GAUGES SET OF JAWS FOR 7" LIFT CYLINDER ACCESSOIRES (DIES, ROLLERS,ETC.)
2	2	HYDRAULIC POWER UNIT COMPLETE WITH: 2 SET OF HYDRAULIC HOSES
4	2	SIDE DOOR ELEVATOR 150 TON 7"
5	2	SINGLE JOINT ELEVATOR 7" WITH SLINGS
6	1 SET	N° 3 KLEPO PROTECTORS 7"
7	1	STABBING GUIDE 7"
8	2	HAND CASING SLIP 7"
9	1	SAFETY CLAMP 7"
10	1	DRIFT FOR 7" CASING
11	2 SET	JAM UNIT

Casing fill up tool, 7" .

Item	Qty.	Description
1	1	Casing fill up tool

*** Transportation, installation of equipment, and spare parts are the responsibility of the Contractor.

4.2.7.2. Personnel

In order to achieve the highest quality of service, which entails optimal utilization of the Contractor's equipment, the Contractor will be required to provide qualified personnel with experience acquired at each level of position (minimum of 3 years of experience at the Senior Field Operator level).

20" Tubular Running Personnel:

Item	Qty	Description
1	1	Crew chief (supervisor)
2	2	Tong operator
3	2	Stabber

13 3/8" Tubular Running Personnel:

Item	Qty	Description
1	1	Crew chief (supervisor)
2	2	Tong operator
3	2	Stabber

9 5/8" Tubular Running Personnel:

Item	Qty	Description
1	1	Crew chief (supervisor)
2	2	Tong operator
3	2	Stabber
4	2	Jam Operator

7" Liner Running Personnel:

Item	Qty	Description
1	1	Crew chief (supervisor)
2	2	Tong operator
3	2	Stabber
4	2	Jam Operator

4.2.7.3. Documentation and Reporting

Pre-Job Documentation:

As per the client's request, the Contractor must provide the following documents:

- a) Power Tong type and appropriate certification.
- b) Identification number.
- c) Maximum make-up torque (according to Company request).
- d) Available diameters.
- e) Power Unit type and relevant certification.
- f) Joint make-up analyzer (if requested) and relevant certification.
- g) Speed/Torque Control System (if requested) and relevant certification.
- h) Last NDT Certificate.
- i) Recommended centralization program, including:
 - i. Type and quantity of rigid/flexible centralizers.
 - ii. Quantity of stop collars.
 - iii. Quantity of thread sealants and lubricants.
 - iv. Placement of centralizers and stop collars.
 - v. Number of centralizers per joint.
- j) JSA (Job Safety Analysis).

Job Reports :

At the end of each operation, the Contractor must provide the Client with the Job Report detailing the operations conducted. The Job Report must include:

- a) All Equipments used.
- b) Crew composition.
- c) Total numbers of make ups, included the repeated make up on the same connection.
- d) Joint Make up Analyzer Diagram (on floppy disk) Torque/turn - Torque/time (when requested). The Contractor must attach the frequency distribution (histogram) for Shoulder and Final torque, Shoulder and Final turns.
- e) Repeated make up stating reasons about non-acceptable make up (e.g. no shoulder torque, dies slipping, etc.) and the corrective action undertaken.
- f) Joint Lay Down. In case of any joint laid down, a specific form must be filled out explaining the reason for lay down; the Crew Leader and Company Representative must sign the form.
- g) Completion Report must include Casing - Tubing running order log with the identification and the position of all tools included in the string.

4.2.7.4. Technical Specifications: (CASING/TUBING RUNNING EQUIPMENT)

a. well1

1. SIDE DOOR CASING ELEVATORS

Qty.	2	2	2	2
Make&Type				
Casing size	20"	13 3/8"	9 5/8"	7"
Load Rating	250MT	250MT 150T	250MT 150T	250MT 150T

2. SINGLE JOINT CASING ELEVATORS

Qty.	2	2	2	2
Make&Type				
Casing size	20"	13 3/8"	9 5/8"	7"

Load Rating	250MT	250MT	250MT	250MT
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3. SLIP TYPE CASING SPIDER

Qty	3
Make & Type
Slips for Casing Size	350T Spider Slips package for 13 3/8"
	350T Spider Slips package 9" 5/8 casing
	350t Spider Slips package for 7"
Load Rating	350T,450T

4. SLIP TYPE CASING ELEVATOR

Qty	3
Make & Type	.....
Slips for Casing Size	350T Spider Slip Type Elevator package for 13" 3/8
	350T Spider Slip Type Elevator package for 9" 5/8 casing
	350t Spider Slip Type Elevator package for 7"
Load Rating	350T

5. CASING SLIPS

Qty.	2	2	2	2
Make and Type	..........	.......	..........	..........
Casing Size Range	20"	13 3/8"	9 5/8"	7"

6. CASING HYDRAULIC POWER TONGS

Qty.	8
Make & Type	.....
Hydraulic Power Tong + Power Unit	20" Power Tongs & Hydraulic Power Unit
	13 3/8" Hydraulic Power Tongs & Hydraulic Power Unit
	9"5/8 Hydraulic Power Tongs & Hydraulic Power Unit
	7" Hydraulic Power Tongs & Hydraulic Power Unit

7. TUBING HYDRAULIC POWER TONGS

Qty.	1
Make & Type	.....
For tubing OD	2 3/8"- 4 1/2" tubing

8. CASING MANUAL TONG

Qty.	4
Make and model	.....
For OD Range	Manual Rotary Tongs for 20" Casing Manual Rotary Tongs for 13" 3/8 Casing Manual Rotary Tongs for 9" 5/8 Casing Manual Rotary Tongs for 7" Casing
Primary use	Yes

9. API CASING DRIFT

Qty.	1	1	1	1
Casing Size	20"	13-3/8"	9-5/8"	7"
Casing weight	94/87.5ppf	68ppf 61#, K55	47- 53.5ppf	29 - 32ppf

10. CASING THREAD PROTECTORS (Clamp-on, rubber type)

Qty.	3	3	3	3
Casing Size	20"	13 3/8"	9 5/8"	7"

11. CIRCULATION HEAD

One each casing circulation head
20" BTC Pin x 2" Weco Fig 1502

13" 3/8 BTC Pin x 2" Weco Fig 1502

9" 5/8 PC Pin x 2" Weco Fig 1502

7" PC Pin x 2" Weco Fig 1502

12. CASING FILL-UP LINE

Make and type (coflex)	.....
ID	For 9" 5/8 47# VAM TOP or NEW VAM or HSC Connection

a. Re-entry

1. SIDE DOOR CASING ELEVATORS

Qty.	2
Make&Type	
Casing size	7"
Load Rating	250MT 150T

2. SINGLE JOINT CASING ELEVATORS

Qty.	2
Make&Type	
Casing size	7"
Load Rating	250MT

3. SLIP TYPE CASING SPIDER

Qty	1
Make & Type	.....
Slips for Casing Size	350t Spider Slips package for 7"
Load Rating	350T,450T

4. SLIP TYPE CASING ELEVATOR

Qty	1
Make & Type	.....
Slips for Casing Size	350t Spider Slip Type Elevator package for 7"
Load Rating	350T

5. CASING SLIPS

Qty.	2
Make and Type	..........
Casing Size Range	7"

6. CASING HYDRAULIC POWER TONGS

Qty.	2
Make & Type	.....
Hydraulic Power Tong + Power Unit	7" Hydraulic Power Tongs & Hydraulic Power Unit

7. TUBING HYDRAULIC POWER TONGS

Qty.	1
Make & Type	.....
For tubing OD	2 3/8" - 4 1/2" tubing

8. CASING MANUAL TONG

Qty.	1
Make and model	
For OD Range	Manual Rotary Tongs for 7" Casing
Primary use	yes

9. API CASING DRIFT

Qty.	1
Casing Size	7"
Casing weight	7" 29 lb/ft casing

10. CASING THREAD PROTECTORS (Clamp-on, rubber type)

Qty.	3
Casing Size	7" Klepo Protectors

11. CIRCULATION HEAD Swage

One each casing circulation head
7" PC Pin x 2" Weco Fig 1502

12. CASING FILL-UP LINE

Make and type (coflex)	.....
ID	.....
Location	TDS