JOINT PROJECTS TEAM

STRUCTURE A & E DEVELOPMENT PROJECT
NC41 BLOCK LIBYAN OFFSHORE

Invitation for Pre-Qualification

SEMISUBMERSIBLE RIG SERVICE FOR "E" STRUCTURE

RQ/JPT/023/22

SUMMARY

1. SCOPE OF DOCUMENT

Pre-Qualification tender is open for local and international vendors specialized in Provision of Drilling Semisubmersible Rig Service and being strongly supported by professional crew and therefore invited to express their interest by submitting their document and providing the requested information as per following paragraphs.

This document defines only:

- Information for the Planned Activity
- Main Technical Requirements of the requested Drilling Units
- Minimum Requirements of the Drilling Rig Crew.

2. INFORMATION OF THE ACTIVITY

Mellitah Oil & Gas plans to drill 23 (twenty three) offshore development wells (subsea wet & dry tree wells) in structure E - block NC41,

"E" structure is located in the NC41 Block around 31 km north east of the Sabratha Platform and about 110 km from the closest point on Libyan coast. The **water depth range is around 200 – 250 m (to be confirmed)**, with deviated/horizontal well type. The deepest well is expected to be approximately 5800 m MD (approx. 2600 m TVD). The operations scenario envisages first pre-drilling campaign, then well re-entry, tie-back and completion with a work-over light rig once platform being installed.

Mellitah Oil & Gas intends to pre-qualify drilling contractors which can provide offshore **Semisubmersible Rig service**.

The spud time of the first well is foreseen on Q3/Q4 2023.

Company Operation Bases will be located in Malta and/or Tripoli Province.

The qualified drilling contractor, shall be capable to prove continuous service provision in the last five (5) years.

3. MAIN TECHNICAL REQUIREMENTS

3.1 REFERENCES

National Laws, Rule, Regulation & Standard

All the laws, rules and regulations in force in the area of operation and related to drilling activity shall be applied.

All the international rules and regulations concerning requirements for drilling personnel, drilling rig and relevant equipment, as hoisting equipment, pressure vessels, electric equipment in general and electrical equipment installed in areas classified "hazardous" in particular shall be applied.

3.2 RIG

3.2.1 SEMISUBMERSIBLE RIG DRILLING UNIT

The requested **Semisubmersible Drilling Unit** shall have the capability to operate in a **water depth between 200-250 m (to be confirmed)** and be fitted with a Pollution Prevention system with adequate treatment facilities compliant to requirements coming from Environmental Impact Assessment process to reach the target concerning water quality related to local legislation, International Conventions for offshore discharge.

The drilling Unit shall be moored type and shall have the Class Certificates and valid periodical surveys compliant with the IMO MODU CODE last edition, minimum compliant with the IMO MODU CODE 1989 issued by an International Agency. The Drilling Unit should have the Class notation for drilling system.

The rig shall be provided of:

- Minimum of three mud pumps (preferable four mud pumps, with one unit dedicated for booster line), with min rated input power of 1600HP, designed and manufactured as per API 7K.
- Rotary table max opening has to be 49½".
- Minimum Class-5 10,000 psi Subsea BOP Stack in compliance with the API Specification 16A and API standard 53 manufactured as per API 16-A.

The hoisting system shall be suitable to hoist and run BOP and Riser to the maximum expected water depth and the heaviest casing load as per above project information.

A Vetco H4 27" wellhead connector is preferred.

In addition to the Subsea BOP Primary Control System, the following BOP Secondary and Emergency Control Systems shall be installed:

- Deadman System as defined by the API Specification 16D
- Autoshear System as defined by the API Specification 16D
- ROV Intervention Interface Panel in compliance with ISO 13628-8/API RP 17H with standard high flow hot stabs.

The accommodation module should have at least 40 beds for Company's people and third party Company's service people and shall comply with IMO MODU Code requirements.

3.3 PERSONNEL

Personnel of Drilling Contractor involved in the operation shall be fully trained and skilled to carry out work in a safe and proper manned and hold the necessary authorizations to operate in the requested Country, in accordance with local laws and regulations.

All training courses (BOSIET, H2S, Fire Fighting, First Aid, IWCF) shall be performed by a specialized training centre (OPITO, EPT, etc.).

4. MAIN RIG FEATURES

Drilling Contractor is kindly requested to fill in and return the below table assuming info and requirements defined in the above chapters.

4.1 GENERAL INFO

Vendor name	
Vendor previous experience in Country of operation Vendor previous experience in the area of operation Proposed Unit previous experience in the area of operation	

4.2 RIG DATA

Unit Name	
Unit type	
Unit design	
Year of unit construction	
Upgrading info	
Rig class certification (IMO MODU 1989)	
Environmental protection rig feature	
Actual Unit Location	
Actual Unit Status (drilling, Idle.)	
Availability for this project (specify period)	

4.3 OPERATING PARAMETERS

Outfitted max water depth capability	m	
Minimum water depth capability	m	
Variable deck load, drilling and transit mode	t	
Crane types and min load	t	

Moonpool Dimensions		
SS-XMT skidding & handling system	yes/no	

4.4 STATION KEEPING SYSTEM/S

Type	
Description of main features.	

4.5 DRILLING SYSTEMS

Op. mode (e.g: single, activity, off-line capability, dual activity)	:	
Max static hook load that rig can handle in running casing mode	t.	
Motion Compensator system		
Rated capacity compensated	t.	
Rated capacity locked	t	

4.6 MUD SYSTEM

H.P. Mud Pumps		
Total installed	no.	
Make-type	:	
Max rated input power	:	
Fluid end working pressure	psi	

Mud System		
Total mud storage	no.	

Solid Control System	
Description of waste cutting and fluids equipment	

4.7 CEMENTING UNIT

Make-type		
Max rated input power		
Working pressure	psi	

4.8 RISER SYSTEM

Riser		
Make and type	:	
Riser joint total length	m	
Riser pipe outside/inside diameter	in	
Riser tensioning system		
Make and type	:	
Max rated tension capacity	t	

4.9 WELLHEAD CONNECTOR

W.H. connector		
Make and type	:	
Diameter	in	
Rating working pressure	psi	

4.10 WELL CONTROL EQUIPMENT

SUBSEA BOP STACK		
Make and type	:	
Size and working Pressure	in-psi	
Stack configuration		(sketch to be provided)
Built as per API specification:	:	
Compliant to API STD 53	yes/no	
Upper connector (LMRP) pressure rating:	psi	
Emergency Control System:	:	
Secondary Control System:	:	

4.11 TUBULARS

Data of the Drill pipes (available)	:	

4.12 HELICOPTER DECK

Accommodable Helicopters	:	
Built in Accordance with CAP 437		

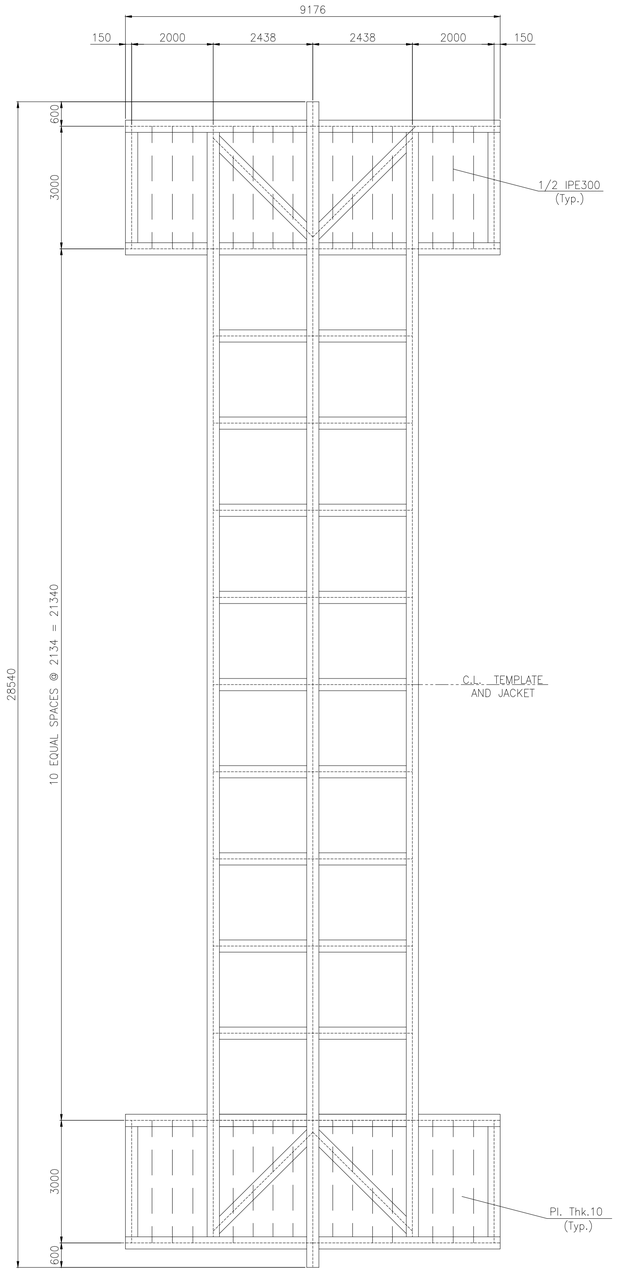
4.13 ACCOMODATION MODULE

LIVING QUARTERS		
Compliant to rules /standard	:	
Total persons Capacity	No.	
Beds Reserved to Company	No	

4.14 H2S SERVICE

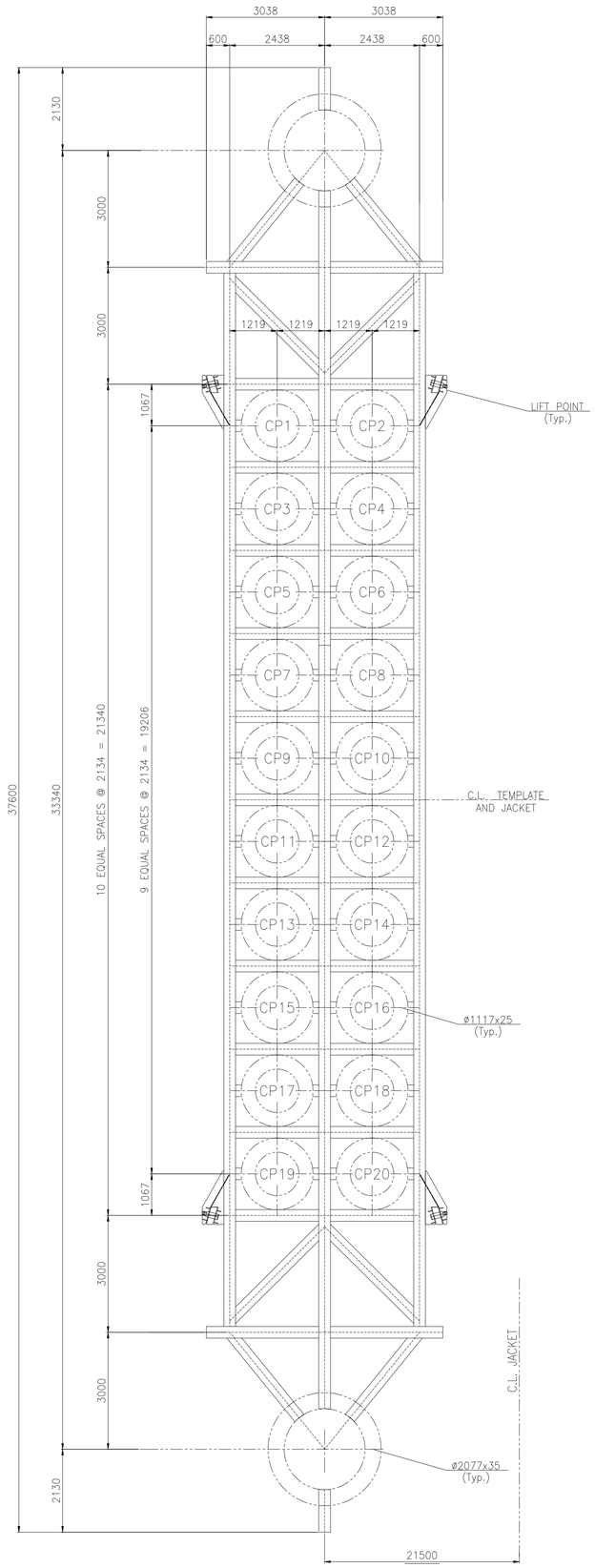
Description of Main Safety Equipment	:	
Safety Breathing Equipment (CASCADE System)	yes/no	

5. ANNEX – STRUCTURE "E" PRE-DRILLING TEMPLATE PRELIMINARY DESIGN



FRAMING PLAN AT EL. +300 T.O.S.

(ALL BEAMS TO BE HEA300)



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(ALL BEAMS TO BE HEA300)

REFERENCE DOCUMENTS

NUMBERS	TITLE
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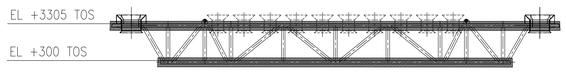

KEY ELEVATION

Revision Number	Validity Status	Date	Description				
01	EV-FS	09/11/2018	ISSUE FOR FEED TENDER	Eni Project TEAM	Eni A. Molognì	EniNA M. Salah	MOG
00	EV-FS	13/04/2018	ISSUE FOR COMMENTS	Eni Project TEAM	Eni A. Molognì	EniNA M. Salah	MOG
Revision Index				PREPARED	VERIFIED	APPROVED	COMPANY APPROVED

Customer Logo and Business Name

Project Name: STRUCTURES A & E, MELLITAH COMPLEX EXPANSION AND CO2 MANAGEMENT INTEGRATED DEVELOPMENT PROJECT

Company Document ID: EN-100-D-S-1059-01-P2

Facility and Sub Facility Name: STRUCTURES A & E, MELLITAH COMPLEX EXPANSION AND CO2 MANAGEMENT

Scale: 1 / 75

Sheet of Sheets: 1 / 4

Document Title: PPE & WHPA PRE DRILLING TEMPLATE MAIN STRUCTURE
PPE PLANS

Supersedes N°: -

Superseded by N°: -

Plant Area: N.A.

Plant Unit: N.A.

File No. EN-100-D-S-1059-01-P2

SOFTWARE: Autocad

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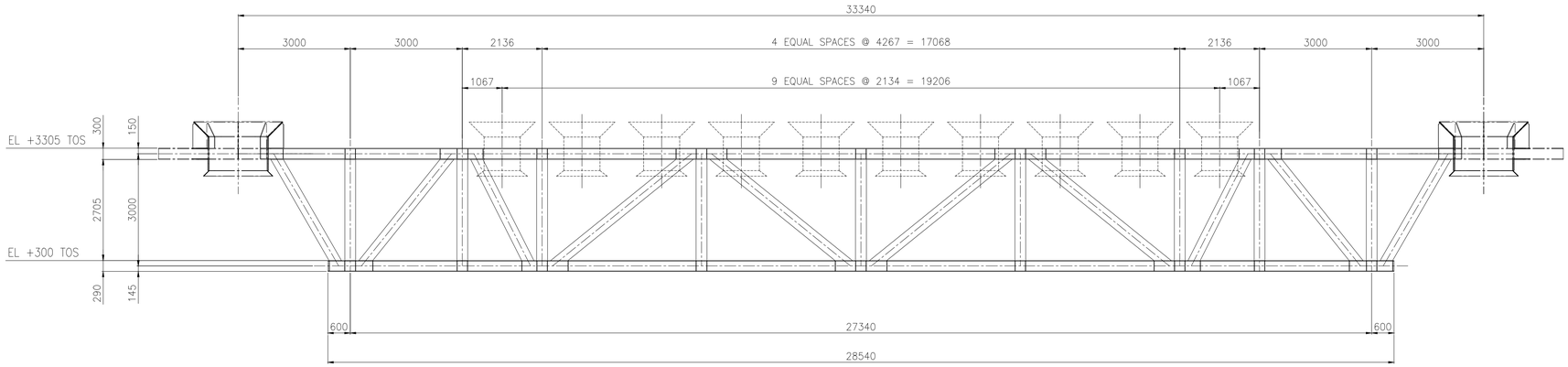
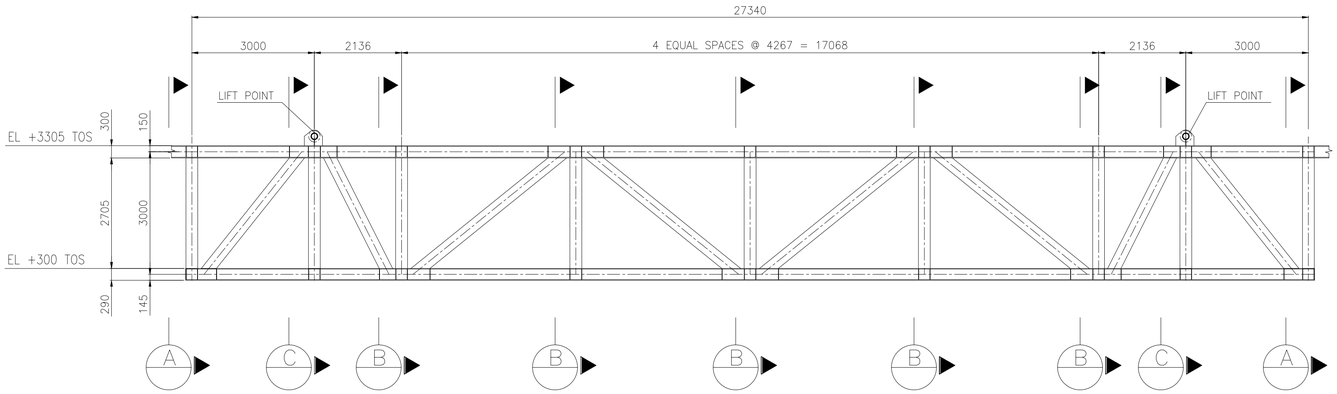


CENTRAL TRUSS

(ALL BRACES AND COLUMNS TO BE HEA300)



EXTERNAL TRUSS (2 REQ.)

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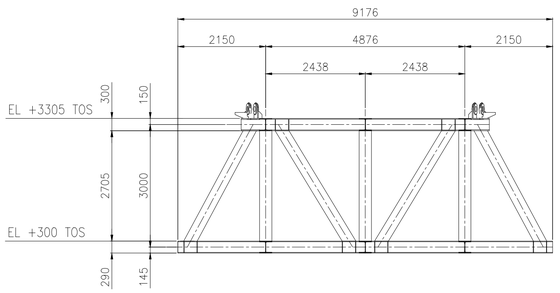

SECTION A–A

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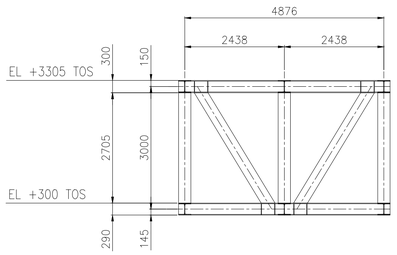

SECTION B–B

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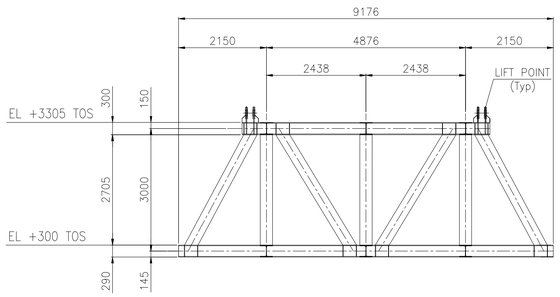

SECTION C–C

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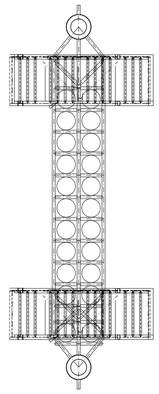

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