



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

KG Basin Project

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PRE-TENDER CONFERENCE INVITATION NO. OIL/KGB/DSF-II/DEV-001/2022 FROM INTERESTED ENTITIES FOR PROVIDING DRILLING RIG AND ASSOCIATED DRILLING AND COMPLETION SERVICES FOR DEVIATED DEVELOPMENT OFFSHORE WELLS AT DSF-II FIELD, KG/OSDSF/GSKW/2018 BLOCK.

1.0 PREAMBLE:

OIL INDIA LIMITED (OIL), a premier National Oil Company, is engaged in the business of exploration, production and transportation of crude oil and natural gas for over five decades. It is a Navratna Company under Ministry of Petroleum and Natural Gas, Government of India and the second largest National Oil Company in the country.

OIL's KG Basin Project office located at Kakinada is presently entrusted to coordinate activities related to development and production of oil and natural gas from the Krishna Godavari on-land and offshore basins in East Cost of India. The Project Office of OIL at Kakinada is well connected by road, rail and air.

The Block KG/OSDSF/GSKW/2018 covering an area of 93.902 Km² was awarded to Oil India Limited (OIL) with 100% stake as the Operator, by the Ministry of Petroleum & Natural Gas (MOP&NG), Govt. of India, under Discovered Small Fields (DSF) round II in March 2019, for carrying out appraisal and development for Petroleum & Natural Gas in the block. The block lies in shallow water offshore area off Amalapuram coast and south of Ravva field and is in two parts separated by a distance of around 1.75 km, with water depths ranging from 5 to 15 m. The area of the Eastern part of the block is 64.547 Km² and the Western part of the block is 29.355 Km². The closest point of block boundary to the east coast is at around

650 m, while the farthest point of the block boundary is at around 11.2 km.

2.0 OBJECTIVE:

OIL invites reputed and established E&P Service Providers/Agencies/Firms who have expertise in handling offshore drilling projects including drilling rig, Drilling & Completion services, Shore base management, air and marine logistics to participate in Pre-Tender Conference.

This document addresses the requirement of services that are envisaged for the upcoming offshore drilling and well completion campaign.

Service provider’s capabilities: Interested companies, joint-ventures, consortium of companies to demonstrate their capabilities in providing such services required for the offshore drilling & completion campaign.

3.0 LOCATION OF THE AREA

The Block KG/OSDSF/GSKW/2018 can be approached by air, water and surface transport as given below:

| | |
|--------------------------|--|
| Nearest Airports | Visakhapatnam – 180km Rajahmundry – 70 km |
| Nearest Sea Port | Kakinada – 15 km |
| Nearest Railway Junction | Samalkot – 20 km Kakinada – 5 km |
| National Highway | NH 5 |

Table 1: Location of the Area

4.0 BROAD SCOPE OF WORK:

As part of this project the following services are intent to be engaged.

- Jack-up drilling rig to drill from Platform at East Block (DCE-1) and Platform at West Block (DCW-2).
- Drilling & Completion services to drill and complete 4 deviated development wells (2 shallow from DCE1 and 2 deep from DCW2) mentioned in Table 4.

- Air and Marine logistics
- Shore base Management
- Tangible equipment viz, Casing, Tubing, Wellhead, X mas tree, Casing accessories, Liner hanger etc

The project scope involves the following work/services but not limited to the packages mentioned in Table 4.

5.0 BRIEF INFORMATION OF PLANNED DEVELOPMENT DEVIATED WELLS

Note: The data provided below is for reference only and subject to change prior to tendering.

a) WORK PROGRAM

Expected commencement Q2 2024
 Nos of Wells 4 Wells.
 Duration 12 - 14 months including Drilling & Completions
 Onshore Supply Base Kakinada

b) EXPECTED PRESSURE & TEMPERATURES

Pressure Gradient 0.45 - 0.75 psi/ft
 Temperature Gradient 3.48 deg C / 100 mtr (BHST)
 H₂S Nil
 CO₂ 3% - 4%

c) DRILL & COMPLETE DEVELOPMENT WELLS AT EAST BLOCK (DCE-1)

Details of the proposed 2 deviated offshore wells to be drilled and completed from platform at East Block (DCE-1)

| Section | Hole Size | Casing Size | Depth TVD BRT | Depth MD BRT | Casing type |
|----------------|------------------|----------------------|----------------------|---------------------|--------------------|
| 1 | - | 30" driven | 125 m | +/- 125 m | Conductor |
| 2 | 17.5" | 13 5/8" | 750 m | +/- 765 m | Surface |
| 3 | 12.25" | 9 7/8" | 1,800 m | +/- 2,100 m | Intermediate |
| 4 | 8.5" | 7" liner, TOL @2250m | +/- 2,400 m | +/- 2,750 m | Production |
| | 2 7/8" / 3 1/2" | Cr Tubing | | | Completion |

Table 2: Wells to be drilled and completed from DCE1

d) DRILL AND COMPLETE DEVELOPMENT WELLS AT WEST BLOCK (DCW-2)

Details of the proposed 2 deviated offshore wells to be drilled and completed from platform at West Block (DCW-2)

| Section | Hole Size | Casing Size | Depth TVD BRT | Depth MD BRT | Casing type |
|---------|-----------------|----------------------|---------------|--------------|--------------|
| 1 | - | 30" driven | 125 m | +/- 125 m | Conductor |
| 2 | 26" | 20" | 650 m | +/- 650 m | Surface |
| 3 | 17.5" | 13.5/8" | +/- 1,900 m | +/- 2,066 m | Intermediate |
| 4 | 12.25" | 9.7/8" | +/- 2,875 m | +/- 3,200 m | Intermediate |
| 5 | 8.5" | 7" liner, TOL @3075m | +/- 3,225 m | +/- 3,650 m | Production |
| | 2 7/8" / 3 1/2" | Cr Tubing | | | Completion |

Table 3: Wells to be drilled and completed from DCW2

e) COMPLETION PHILOSOPHY

For the proposed wells in the east and the west, a single string single or dual zone completion is planned.

The table below presents the no of zones and the casing design for each object. Of the four proposed wells, one well will be single zone completions while the other three will be dual zone completions.

| | Well - 1 | Well - 2 | Well - 3 | Well - 4 |
|-------------------------|-------------|-------------|-------------|-------------|
| No of Zones | 2 | 2 | 2 | 1 |
| Shallow | Gas | Gas | Gas | Gas |
| Deep | Gas | Gas | Oil | - |
| Casing | 9-5/8" x 7" | 9-5/8" x 7" | 9-5/8" x 7" | 9-5/8" x 7" |
| Well Inclination | 37 deg | 37 deg | 56 deg | 31 deg |

1. Single zone completions:

The completion philosophy for the single zone wells is under:

Well (Gas producer) will be completed with a single string, a permanent downhole gauge, chemical injection mandrel and a surface controlled subsurface safety valve and associated completion jewellery. This will be produced till depletion.

2. Dual zone completions:

The three wells, 2 Gas producers and 1 Oil & gas producer will be completed with a single string dual zone completion jewellery. The production philosophy will be a bottoms-up approach and is centre around the two options below:

Option 1

A selective dual zone completion upfront with sliding side doors and isolation packers and permanent down hole gauges.

- a) Produce the lower zone first until depletion. Thereafter close the lower SSD and open the upper zone for production.
- b) Flexibility to produce both zones commingled
- c) Use the SSD for improving the vertical lift performance after water breakthrough or reservoir pressure depletion

Option 2

A selective dual zone completion upfront with interval control valves (ICV's), isolation packers and permanent down hole gauges.

- a. Produce the lower zone first until depletion. Thereafter close the lower ICV and open the upper zone for production.
- b. Flexibility to produce both zones commingled
- c. Use the ICV for improving the vertical lift performance after water breakthrough or reservoir pressure depletion.

Note: The well data provided above for Drilling & Completion is for reference only and subject to change prior to tendering.

f) SERVICES ENVISAGED TO DRILL AND COMPLETE 4 WELLS CAMPAIGN

| Package Reference | Description of package |
|--------------------------|---|
| Package 1 | Drilling Rig Site Survey Casing & Tubing running services Cold casing cutting services Hydraulic Bolt Torquing Services Rig Move and Towing Vessels |
| Package 2 | Bundle A Supply Base Management Warehouse, Port, C & F Logistics (Including Freight, Cranes, local transportation, etc) Port Clearance / calls Supply vessels (Transportation) Helicopter Tubular Inspection Services Supply of Water |
| Package 3 | Bundle B Supply of Wellhead & Xmas tree with Services Supply of Liner Hanger and Services Supply of Casing Accessories Supply of Bits Supply of Completions equipment & Services Mud logging services Drilling tool rental services Solids Control & Filtration equipment Services Slickline equipment & Services Fishing and milling equipment & Services Cementing services Mud Engineering Services Directional drilling, MWD/LWD Gyro Services Wireline Logging services |

| | |
|-------------------|---|
| | Surface Well Test equipment & Services Waste Management |
| Discrete Services | Supply of Casings, Casing pup joints & X/overs Supply of HSD (Rig, Vessels & Services on rig) Rig Inspection & Drops Survey Vessels Inspection Outstation Transport Services Weather Forecasting Services Rig Warranty Surveyor ROB Surveys Insurance |

Table 4: Required packages and services for campaign

6.0 DETAILS REQUIRED FROM SERVICE PROVIDER

Service Provider/ Contractor/ Vendor will demonstrate their experience and capability during Pre-Tender Conference through presentation and provide the following Information after Conference:

- Details of Service Provider/ Contractor/ Vendor’s Company / Similar works executed in last five (5) years
- Incorporation details along with Date and Place of Incorporation.
- Contact Details
 - Name of concerned person
 - Designation
 - Telephone number
 - Mobile number
 - Fax number
 - Address e-mail
- If a Joint Venture/Consortium is proposed, Name, Address, Phone, E-mail of all Joint Venture partners /consortium members along with leader of such JV / consortium.
- Packages offered

7.0 GENERAL NOTES:

- i. All documents submitted after the Pretender Conference should be

clear & legible.

- ii. OIL INDIA LIMITED reserves the right to curtail/ enhance the scope of work stated above, if required.
- iii. This representation is non-binding in nature and submission of information should not be considered as shortlisting / selection for company in any subsequent RFP/ Tender/Bid process that may be undertaken in future.

8.0 SUBMISSION OF DOCUMENT:

Interested parties are invited to submit their interest to participate in the pre-tender conference at our e-mail id: **kgb_dsf@oilindia.in** within **Two (2) Weeks** from the date of publication, followed by hard copies of the same through courier/post to the following address:

OIL INDIA LIMITED

KGB & BEP Project,

D. No.11-4-7; 3rd Floor, Nokamma Temple Street,

Ramaraopet, Kakinada-533004,

Andhra Pradesh, India.

The documents(s) may also be uploaded in Parties' FTP server/ File sharing website (portal) and the link(s) may be provided to us at our e-mail within above specified period.

9.0 Date & Venue of Conference: 25th August 2022 at Mumbai (Exact address will be notified on receipt of your confirmation to participate)

10.0 This invitation for pretender conference is not a part of any tendering process.
