



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुर्गापुरा, अहमदाबाद
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GLOBAL EXPRESSION OF INTEREST

EOI REF. NO.OIL/CEMG/CY/EOI/013 /2014

15.05.2014

LAST DATE OF SUBMISSION : 17 :00 HRS (IST) OF 20.06.2014

Sub: Notice Inviting “Expression of Interest”(EOI) for provision of services of HIRING OF CONSULTANCY SERVICES FOR PEER REVIEW OF WELL ENGINEERING (CONCEPTUAL TO DETAIL DESIGN, DRILLING & TESTING) AND WELL SITE SUPERVISION IN BLOCK CY-OSN-2009/2

1.0 Introduction

Oil India limited (OIL) is a premier National Oil Company engaged in the business of Exploration, Production and Transportation of Crude Oil and Natural Gas. A Navratna Company under the Ministry of Petroleum and Natural Gas, Government of India (GOI), it is the second largest national oil and gas company in India as measured by total proved plus probable oil and natural gas reserves and production.

OIL was awarded the Cauvery offshore block CY-OSN-2009/2 (area: 1621 km²) under NELP VIII bidding round with 50% Participating Interest as Operator and Oil and Natural Gas Corporation (ONGC) with 50% Participating Interest in the Gulf of Mannar. The Production Sharing Contract (PSC) was signed on 30th June 2010 and the Petroleum Exploration License (PEL) was granted on 2nd August, 2010 by the Government of India.

OIL has a firm program of drilling two (2) firm wells and one(1) optional well in the above block. As per preliminary interpretation, the expected water depth of the prospective wells may vary from **400m to 900 meters. Expected timeline to spud the first well is by beginning of Q2, 2015-16.**

OIL (referred to as Company in the EOI) hereby invites Expressions of Interest from experienced and reputed prospective Bidders to offer the services as enumerated below.

2.0 BROAD SCOPE OF WORK AND OBJECTIVES:

The bidder shall carry out the following as part of the Peer Review of Well Engineering and Well Supervision Services in Two Phases as per internationally accepted standard practices to support OIL in the drilling campaign -

Phase 1:

Pre-Drilling Phase: Peer Review of Well Engineering from Concept to Testing phase

Phase 2:

Drilling Operation Phase: Well - Site Supervision and Monitoring Services during execution (From start of drilling campaign to the end of testing, P&A and rig demobilisation)

Phase-1

1.0 Peer review of the well design (Conceptual to completion and testing)

The bidder has to carry out the following during Phase 1:

- 1.1 Review of well data supplied by OIL
- 1.2 Basis of Design document
- 1.3 Review of pore pressure/fracture gradient/ mud weight plan
- 1.4 Drilling risk assessment and Develop stepwise operating plan and procedures for the Rig
- 1.5 Casing Points Selection
- 1.6 Completion/evaluation considerations & hole geometry selection
- 1.7 Initial planning for Testing and Completion
- 1.8 Casing & Tubing Design
- 1.9 Well head & X-mass tree selection
- 1.10 Drilling Rig Specification, Manpower requirement and selection criteria viz. qualification, experience etc. including Supervisory Services.
- 1.11 Well/Project Schedule.
- 1.12 Operations Team Set-up (Manpower Requirements)
- 1.14 Well/Project cost model & estimate
- 1.15 Optimized logistics solution with cost - benefit analysis.

2.0 Detailed Well Design:

2.1 Detailed Well Design

2.2 Selection of optimum trajectory for the holes with respect to well surface location and the target reservoir level

- a. Well Path / Trajectory Design
- b. Detailed Drilling Program and Develop operating plans and procedures and suggest industry tested solutions to the operational problems encountered during drilling of the deepwater wells.
- c. Testing and Completion Material Specifications
- d. Detailed Testing & Completion Program and Procedures
- e. Drilling Fluid & Completion Fluid Design
- f. Cementing Program and Design
- g. Bit Programme, Drill String Design and Hydraulics Optimization

2.3 Detailed operational steps, BHA and parameters to be followed in each phase.

2.4 Phase wise Planned Drilling Time Log for the wells.

2.5 Evaluation Programme Strategy & Design.

2.6 Wire line logging requirement at various stages.

2.7 Coring Programme and core analysis, if required.

2.8 Selection of Services and Materials.

2.9 Preparation of Bridging Documents related to all operations, services and HSE.

2.10 Well control programme and procedures based on the known well pressure profile.

2.11 Contingency Programme and procedures.

2.12 Well suspension/ abandonment programme.

2.13 One page drilling montage (should include all the relevant well information).

2.14 Risk Matrix.

2.15 HAZID/HAZOP & QRA.

2.16 QHSES Compliance & Safety Programmes.

2.17 AFE Preparation including agreed contingency fund.

2.18 The Well Design and Well program documents will be generated by the bidder for review/approval of Operator (OIL). The detailed engineering design of casing program for the wells shall be done, but not limited to, in tri-axial stress analysis software for casing and completion designs so as to satisfy authorities to issue drilling permits and other clearances.

2.19 Drill the well on Paper (DWOP) exercise.

2.20 Preparation of Intent to Drill Report.

2.21 Provide interface with key vendors for selection of any equipment/ materials as per well design.

2.22 Post well reviews & submission of end of well reports.

2.23 Bidder required to enumerate the software in the EOI it intends to use for execution of the scope of work including but not limited to Well design, Casing design, Hydraulics, Cementing design, Well control for Deepwater operations and the relevant deepwater guidelines from API/others it follows as part of its well engineering design process.

3.0 Phase 2

Well-Site Supervision & Monitoring Services during execution: Bidder shall provide experienced Drilling Supervisor (DS) (Day and Night) and Drilling Engineer to Supervise, monitor well operation, operational hazards evaluation, mitigation, HSE on 24x7 basis.

3.0.1 Experience criteria for Drilling Supervisor : At least 10 years of experience of working in deepwater MODU either in drillship or Semisubmersible and at least 3 years of experience in the water depth range as specified and currently engaged as DS as stated here. Must be thorough with all operational and HSE issues of a drillship/semisubmersible.

3.0.2 Experience criteria for Drilling Engineer:Should have 5-8 years of working experience in deepwater Drillship /Semisubmersible/jack up having good analytical power to observe the well behaviour (listening to well) and proactive mitigating measures on site. Should be currently engaged and should have experience of working on at least 3 wells in the water depth range as specified.

SERVICE REQUIREMENTS

3.0.3 The bidder is to provide experienced Drilling Supervisor (DS) on board on 24x7 basis till completion of the well having experience of working in Drill Ship and or Semisubmersible in deep water environment,for supervision, coordination, execution and evaluation of the drilling and testing operations according to the drilling programs and in consultation with OIL's representative. DS should have excellent exposure of sub-sea and drilling operations and the various equipment used on deepwater rig.

3.0.4 The DS is to ensure adherence to all operational and QHSE related issues in the Offshore Drilling Rig.

- (i) Ensure Health, Safety and Environment policies, standards and procedures of Operator and all statutory procedures are implemented at the offshore rig site rig-site.
- (ii) Ensure that safety meetings are held on the rig for the entire well-site team.
- (iii) Ensure that the Emergency Response Plans are in place and understood by all at the rig site.

4.0 Technical & Financial Criteria of Bidder:

4.0.1 The bidder as an entity must have experience of providing services of well engineering and peer review for at least 5 (five) number of deepwater offshore wells, with at least 2 (Two) wells in water depth of 800 meters or more, to any reputed

offshore E&P operator during last 5 (five) years from the date of submitting the response to this EOI.

4.0.2 The bidder shall be required to produce relevant documentary evidence from the client for whom such consultancy services were provided in support of their deepwater experience as per 4.0.1 above

4.0.3 Bidder must identify and deploy qualified and experienced well engineering team consist of Drilling Engineer, Geologist, Reservoir Engineer, Production engineer, HSE ect as per qualification mentioned in the tender document with documentary evidence of identification, educational qualification, and experience.

4.0.4 The Bidder is required a project methodology for the different phases of work and to provide indicative Personnel and their experience it plans to place for execution of the braod scope of work outlined.

4.0.5 Bidder to indicate its QHSE and QA/QC policies and procedures and accreditation from any reputed agency if any.

4.0.6 **Financial and other Criteria:** Bidder's net worth during the last 3 years shall be positive. Audited financial statements for the last three years are required to be submitted. Bidders who themselves do not meet the above net worth criteria can also be considered provided that the net worth of the ultimate / holding parent company in the last 3 financial year shall be positive. Copy of the latest published Audited Annual Report to be submitted by the ultimate / holding parent company

Address for Communication

Interested Bidders are requested to visit our website www.oil-india.com for further details on the above and submit their Expression of Interest latest by 20.06.2014 till 17:00 Hrs (IST) to the following address :

**General Manager (CMC)
For Sr. Manager (C&P) (CEMG)
Oil India Limited, FC-24, 5th Floor,
IT Infrastructure Building, Sector-16A,
NOIDA-201301 [email ID: cemg_c&p@oilindia.in;rupakkalita@oilindia.in]**

For any technical clarifications, interested Bidders may contact:

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