



ऑयल इंडिया लिमिटेड
 (भारत सरकार का उद्योग) पंजीकृत कार्यालय: मुंबई, भारत
Oil India Limited
 (A Government of India Enterprise) Registered Office: Mumbai, Assam

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GLOBAL EXPRESSION OF INTEREST

EOI REF. NO.OIL/CEMG/CY/EOI/014 /2014

15.05.2014

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

Sub: Notice Inviting “Expression of Interest”(EOI) for Real Time Operations Centre (RTOC) Services for Drilling in Deepwater block off Gulf of Mannar (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) wells and one(1) 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 Expression of Interest from experienced and reputed prospective **Bidders** to offer the services as enumerated under Groups.

2.0 Service : Real Time Operation Centre (RTOC) and services

3.0 PRE-QUALIFYING CRITERIA ANF REQUIREMENT –

- 3.1 Bidder must have minimum 5 (five) years experience and should have provided at least one RTOC set up and management for any major Offshore E&P Operator. Period in this regard shall be reckoned prior to the schedule closing date of submission of this EOI.
- 3.2 Bidder should have well defined and documented QHSE policies/procedures to ensure quality and safe work performance during the operations. Bidder required to provide brief on Health, Safety, Environment and Quality Assurance systems followed in the last five years (**Appendix 3**).
- 3.3 Bidder should have adequate capabilities, resources and personnel to provide and execute required services. Bidder required to provide details of work in hand and past contract details (**Appendix 1 & 2**).
- 3.4 Bidders make themselves aware of the Indian regulatory requirements that apply to carrying out the scope of work with respect to licenses, and other applicable rules for carrying out the work with respect to Indian Regulatory requirement for License and other applicable guidelines; Bidder with knowledge of the area of operations and by its independent observations and enquiries to have fully informed and satisfied itself as to the nature of the area of operations, means of access, local facilities, climatic conditions, labour conditions and practices, local terrain conditions, local logistical requirements, any and all security, fire, safety explosives or other regulations, permissions which may affect the execution of the Works, all environmental concerns and conditions, the nature, extent and practicability of the Works and all matters whatsoever affecting in safe carrying out of the broad Scope of Work indicated. (**Block details and tentative well details are given in Annexure – 1**).
- 3.5 Bidder to submit Organisational outline proposal detailing their nominated management, staff, and business process support to carry out an Offshore Deepwater Drilling campaign for all types of wells. Bidder to provide details of his Management, Operating and Maintenance schemes with copies of their certification wherever applicable.
- 3.6 **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.

4.0 Broad Scope of work:

The broad Scope of Work will include but not be limited to:

4.1 Firm Scope: Section 1

- (i) To set up with IT Hardware, software, Connectivity and associated services for Real time data transmission to and from the rig – Offshore rig and New Delhi base Operational centre. Optional connectivity provisions to Oil HQ, Duliajan.
- (ii) Acquiring, collecting and transmitting real time surface and sub surface parameters from the offshore rig to the RTOC in OIL office at New Delhi. On the rig, data will be collected from rig contractor and service companies, in industry standard format (WITS/WITSML) and will be aggregated, replicated and transmitted to OIL office in real time using Bidder-provided provided V-SAT or any other satellite link. The data must be quickly buffered in case of communication failure and must be securely stored and distributed.

- (iii) Monitoring of rig operations on a 24x7 basis using real time data transmission and real time drilling optimization software

4.2 Optional Scope: Section 2 (On call out basis)

- (i) Real time updating of geological and geophysical model, well placement and Geo-steering
- (ii) Pre drill and Real Time Application and analysis of Well Engineering issue for drilling optimization like Real Time Data Monitoring and Optimization, ECD Management and provide the Real Time Pore Pressure Prediction
- (iii) Wellbore Stability Surveillance, Monitoring and management of ECD/ESD and its trend. Analysis of Pore Pressure and Fracture Pressure trends, Surge/Swab, Hydraulics analysis, Real time LOT and FIT, Pick up and Slack off weight and trend analysis, down hole WOB, Torque, Drag and hydraulics, down hole RPM, Vibration, shocks, Stick-slip etc,
- (iv) Real time Mud Volume management with the help of logging parameters like Active and Reserve Pit Volumes, Trip tank, Gas volumes and interpretations, Mud density, Temperature and Conductivity (In and out)
- (v) Monitoring of LWD/MWD/WL log parameters like Resistivity, Gamma ray, Density and Porosity, Sonic Delta Time and Formation Pressure etc
- (vi) Drilling optimization software by importing real time data to get the following
- Optimization of drilling parameters such as WOB, RPM, Flow in, SPP and Mud Weight etc.
 - Elimination of Stick-Slip, Torque and Drag issues.
 - Monitoring and analysis of drill string Vibrations
 - ECD management with respect to Pore and fracture Pressures by optimizing mud properties and flow rates etc.
 - Bit Hydraulics for better ROP and Hole Cleaning.
- (vii) Tripping Speed and Casing Speed Optimization by swab and surge analysis
- (viii) Training and development of OIL in-house engineers in Drilling Optimisation, model building, well engineering applications and Pore pressure prediction
- (ix) Bidder to propose methodology and tools tackles inventory for different phases of drilling and to provide historical Mean Time Between Failure (MTBF) statistics of each tool/Equipment provided along with the proposed servicing/refurbishment schedule. Bidder to provide **Case Histories, Technical Specifications and Track Record** for all the Coring Systems used for the coring job in similar deepwater environment.
- (x) Bidder also required to provide technical/operations manuals/Audio-visual aids in respect of major Equipment and services like Temperature rating, compatibility with LTSOBM and WBM mud systems and other pertinent and relevant technical requirement/limitations. Bidder is requested to include any other tools / services which Bidder deems required or suggests in terms of latest Marketed Technology / Time saving for Company.
- (xi) Bidders required to provide Details of Equipment/Resources directly owned/outsourced and average age of equipment/resources proposed for the Company's Deepwater drilling programme. Bidder also requested to provide the **working methodology** in case the Bidder is not able to provide all the services on its own.

- (xii) Bidder to indicate realistic Mobilization period for tool and Equipment (including Manpower) from date of LOA.
- (xiii) Bidder required providing case histories / references of similar work done for the services applying for and including a complete inventory of tools/tackles and best practices in line with new technologies and new regulations for deepwater drilling.
- (xiv) Any other information which is relevant to the services and establish that Bidder is a competent equipment/material/service provider.

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:

**Mr. Ghana Gogoi
Head-CEMG(Project)
Oil India Limited, FC-24, 5th Floor,
IT Infrastructure Building, Sector-16A,NOIDA-201301
e-mail id: ghana_gogoi@oilindia.in**

Appendix 1

Current and Potential workload: Please fill up the following table with relevant data and documentary evidence

Client/ Project/ Nature of service	Progress as on date of submission of EOI	Contract value Million USD	Type of activity	Peak man power	Role	Award date	Planned Completi on date	Was the mobilizati on time and as scheduled	Major down time and reasons

Appendix 2

Past Contract Details: Please provide the past 5 years contract details in the following format with documentary evidence where ever required.

Client/ Project/ nature of services	Mobilization date vs contractual mob date	Contract value Million USD	Type of activity	Peak man power	Role	Award date	Planned completion date vs Actual completion date	Was the Bidder ever blacklisted due to bad performance/ non mobilization/ non adherence to any Operator's contractual terms and conditions/ breach of contract

Appendix 3

Documentary evidence showing that the Bidder has a comprehensive Quality, Health, Safety and Environmental management system in place which demonstrates adherence to Bidder's QHSE commitments and Regulatory requirements. Bidder requested to provide the Safety statistics Details for the last 3 years.

Bidder required to provide a brief with copies of certification wherever applicable need to be submitted covering, but not limited to, the following salient features:

1. The Bidder's HSE Management System including risk register
2. The Bidder's Quality Management System and Procedures
3. Process Safety Information and Hazard Analysis – at workshop and on Rig and other work areas
4. Standard Operating Procedures
5. Lifting Gear Policy, standards and procedures
6. Training and Competence standards
7. Management of Subcontractors
8. Equipment Integrity standards
9. Permit-to-work system
10. Management of Change
11. Incident Investigation and Analysis
12. Emergency Planning and Response
13. Occupational Health
14. Drugs and Alcohol
15. Security
16. QA/QC standards and procedures
17. Audit and Review

Annexure 1
PROPOSED DRILLING SCHEDULE :

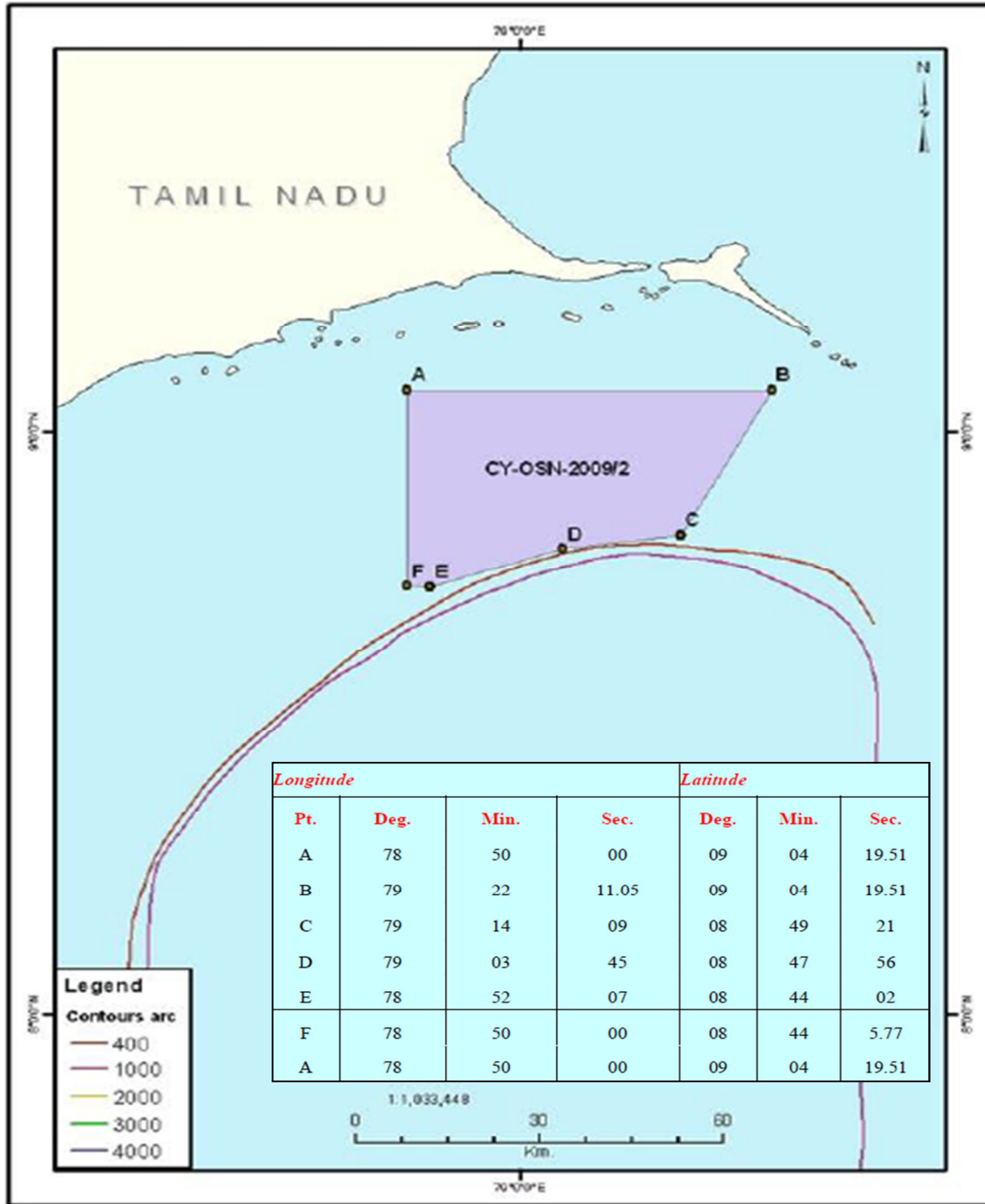
Block	CY-OSN-2009/2
Likely commencement date	Beginning 4 th Quarter 2014
Drilling Programme	OIL has a firm program of drilling two(2) firm wells and one (1) optional well in the above block
Water Depth Range	400 to 900 meters
Drilling Depth	Average 5500 meters Below Mud Line (BML)
Pressure and Temperature	Preliminary studies indicative of Normal Pressure and Temperature regime
Supply Base	At this point of time, Tuticorin on the East coast is being studied. However, the base/s could be anywhere in the East coast to provide services to save time.

PROVISIONAL WELL DETAILS

Planned exploratory wells in the block are expected to be vertical wells. The wells will be drilled from independent locations. The tentative casing scheme for the wells is indicated below:

Casing	Hole Size (in)	Size (in)	Weight (ppf)	Grade	Connection	Depth (m)
Conductor	Jetted	36"	533	X56	RL4/D90	+/- 80m BML
Surface	26"	20"	133	X52	RL4/D90	+/- 500m BML
Intermediate	20"	16"	94.5	L80	Hydril/ Premium	+/-1150m BML
Intermediate	17.1/2"	13.3/8"	68/72	L80/P110 /Q125	BTC/Premium	+/-2200m BML
Intermediate	14.3/4"	11.3/4"	60/65/71	L80/P110 /Q125	Hydril/Premium	+/-2700m BML
Production	12.1/4"	9.5/8"	47/53.5	L80/P110 /Q125	Premium	+/-4500m BML
Liner	8.1/2"	7"	29	L80/P110 /Q125	Premium	+/-5200m BML
6" Contingent Hole	6"	4 ½"	12.6	L80/P110 /Q125	Premium	5500 m BML

Block Details



INDEX MAP OF BLOCK CY-OSN-2009/2

End of EOI