

**OIL INDIA LIMITED
KG BASIN PROJECT
KAKINADA**

GLOBAL EXPRESSION OF INTEREST (EOI) NO. **OIL/KGB/EOI-47 FOR HIRING OF (i) SERVICE RIG PACKAGE (1400HP Minimum) WITH CREW, (ii) MUD ENGINEERING SERVICES AND (iii) WIRELINE LOGGING SERVICE IN NELP-VI BLOCK: KG-ONN-2004/1 IN EAST GODAVARI DISTRICT OF ANDHRA PRADESH & YANAM DISTRICT OF PUDUCHERRY, INDIA.**

I. INTRODUCTION

OIL India Limited (OIL) invites Global Expression of Interest (EOI) from interested and reputable contractors with relevant experience primarily for testing, completion and hydro fracturing of exploratory HPHT Wells in the block- KG-ONN-2004/1 for provision of various services as mentioned below.

II. TYPES OF SERVICES

(i) SERVICE RIG PACKAGE (1400HP Minimum) WITH CREW :

1. Introduction

OIL India Limited (OIL), KG Basin Project invites Global Expression of Interest (EOI) from interested and reputed contractors for providing a suitable land service rig with experienced crew primarily for testing and completion of exploratory HPHT wells in block KG-ONN-2004/1, EG District, Andhra Pradesh.

Note: Rig contractors having their own/leased service rig package with experienced crew are qualified to participate. Any submission through agents or subcontractors or intermediaries will not be acceptable.

In case of consortium of companies, the Leader of consortium should satisfy the experience as mentioned against point 3.0 {srl. nos. (a) to (d)}. However, any one of the consortium members shall have to meet the financial turnover criteria as mentioned in point 3.0 {srl. no. (e)}.

2. Brief description, work scope and specifications

The land service rig with top drive (AC-SCR/VFD) is planned to be used to test and complete exploratory of 01 No. HPHT well for an onshore gas field. It is scheduled to start operations by Q4-2018-19. The contract will be for an initial period of 06 months and may be extended for additional 06 months. The land rig shall have minimum following specifications:

- Depth capacity of all components = 5,000 m
- Minimum hoisting capacity= 750 KPS
- Rig Capacity = 1,400 HP minimum

- Substructure height minimum 24 ft with sufficient clear height below Derrick Floor to handle & accommodate 15M BOP stack
- To accommodate 6000m of 3.1/2" tubing and drill pipe.
- A minimum of Two rig pumps are required, each capable of pumping 260 gal/min at 5,000 psi
- An additional High Pressure twin engine Pump unit/Cementing unit with manifolds, discharge lines with working pressure equal to or greater than the working pressure of 15,000 psi (equivalent to the Christmas tree) capable over pumping 160 gal/min.
- Mud tank capacity = 2700 bbl with facility to handle sour fluids.
- Complete with Pipe Handling & Fishing Tools
- 11" x 15,000 psi Double ram with pipe rams and shear ram, and Annular BOPs, meeting NACE requirements.
- 15,000 psi Choke & Kill manifold to meet NACE requirements.
- Rig instrumentation including continuous Total Gas System with H2S alarm system, capable of detecting upto 10 ppm H2S.
[Cellar dimension : 4m x 4m x 3m: L x B X H]

Note: Bidder to submit detailed worksheet to justify that the Rig Package able to carry out completion & testing as specified above.

3. Vendor Qualification Criteria

Vendors will be qualified based on the basis of the following criteria:

- (a) Corporate experience in providing the Work-over / Service Rig Package Services with in-house/leased rigs to E&P companies for last 5(Five) years reckoned from the publication of this EOI.
- (b) Experience of Work-over/Testing of at least 03 (three) nos. of Oil & Gas wells using 15M BOP stack with bottom hole temperatures 300 F or more , in last 5(Five) years reckoned from the publication of this EOI.
- (c) The key rig personnel (Toolpusher and above) should have minimum experience of 02 (two) High Pressure High Temperature well testing / work-over operations with sour gas handling experience, using 15M BOP stack and bottom hole temperatures exceeding 300 F, within last 10 (Ten) years.
- (d) Should have Health, Safety, Security and Environment Management System and sound track record.
- (e) The average annual turnover in last three accounting years should be minimum Rs.11.50 Crore (USD 1.65 million). Net worth of bidder should be positive for preceding financial/accounting year.
- (f) Should be in a position to mobilise the Rig at site within 2 months of award of contract (Tentatively rig required at site by January 2019).

Note:Vendors should clearly mention (point wise) whether they satisfy the above criteria & support it with necessary documentary evidence.

4. Documents to be submitted:

To qualify for consideration, contractors are required to supply one (1) set of the following documentation, with the specific chapters, separated by dividers, in the same order as set out here below (a) to (m):

- a) A separate section summarizing the contents chapter by chapter of the prequalification document.
- b) Contractor's general structure and organisation, including the branch / sub-division dedicated to such activities.
- c) Details of company's Health, Safety and Environmental Policy and Programme together with HSE Management System.
- d) Safety records detailed for accidents, injuries, damage and summarized for near-misses, LTI over the past five (5) years.
- e) Quality Assurance System certified ISO 9001 or equivalent.
- f) Details of relevant verifiable experience of providing deep High Pressure High Temperature well testing rig services with crew that have been undertaken as main contractor in the last five (05) years, inside or outside India.
- g) Reference (including emails and telephone numbers) of three major customers that can be contacted for information / reference.
- h) Description and specifications of suitable service rigs currently owned/leased by the contractor together with proof of ownership/lease agreement.
- i) Resume of key personnel to be involved in the services with High Pressure High Temperature testing experience in their respective position.
- j) Qualifier's audited accounts for the past three (3) accounting years.
- k) All relevant information concerning contacts, telephone, fax, e-mail of the contractor's representative.
- l) Copy of current IADC certificate (Contractors must be registered with IADC).
- m) Current Rig status and its availability & capability of mobilisation of the rig within 02 months time.

In addition, applicants must provide two (2) electronic copies (CD ROM) of the prequalification documents.

Failure to provide any of the listed documents or information shall negatively affect the qualification to participate in the tendering process. Notwithstanding the submission of this documentation, OIL is neither committed nor obliged to include any contractor on the tender list or award any form of contract to any contractor and/or associated companies.

(ii) MUD ENGINEERING SERVICES:**1.0 INTRODUCTION**

Oil India Ltd, KG Basin project, as operator of the exploration Block KG-ONN-2004/1 has started its production testing operation in exploratory wells drilled in the block. The block is situated in East Godavari District of Andhra Pradesh.

2.0 WELL DATA**Drilling and Casing History of Loc: G**

This well is approximately 40Km from Kakinada Town. Initially 26" hole was drilled and cased with 20" casing .Thereafter drilling 18.½" hole with 16" casing . Again a 16" hole (with under reamer) made and cemented with 13⅝" casing. Then 12.¼" section was drilled and cased with 9.⅝" X 9.⅞" combination casing. Finally 8.½" hole was drilled and cemented with 7" casing liner with 7" liner shoe at 4753.5m. The well was temporarily abandoned by placing two cement plugs in the range from 3100-3000m & 500-440m.

WELL DATA FOR LOC: G

As on date, eight exploratory wells and one appraisal well have been drilled in the block and based on the result of well testing operation, further exploration/appraisal wells may be drilled in the block. The wells have been drilled with 7inch casing /liner completion. Some of the wells have been drilled as vertical well.

Block	KG-ONN-2004/1
Well Name	G
Operator	OIL INDIA LIMITED
Basin	East Godavari Sub Basin
District, State	East Godavari District , Andhra Pradesh

Category	Exploratory HPHT Well
Objective	To probe the Lower Cretaceous Syn-rift sediments of Gollapalli Formation (Lr. Cretaceous)
Elevation details	GL (Above MSL): 4.98m , RT-GL : 11.69m , K.B (Above MSL) : 16.67m
Co-ordinates	Latitude: 16° 40' 52.54"N Longitude: 82° 06' 58.00" E
Datum & Projection	UTM ZONE 44N-WGS 84 SPHEROID
Well Profile	Vertical
Target Depth	5000m / Basement
Drilled Depth	4758m/ Basement
Temperature /Pressure at TD	390DegF/12500psi (Max)

The testing objective of this well is to explore single prospect to probe the presence of hydrocarbon within Gollapalli Formation. The well Loc: G was completed drilling and temporarily abandoned and awaiting for Testing followed by Hydro fracturing. The drilled depth is 4758m.

Drilling and Casing History of Loc: T

This well is approximately 50Km from Kakinada Town. The primary testing of this well had been completed except hydro fracturing. In this well three cement plugs are placed prior to temporarily abandon the well. This location also lies in the SW part of the NELP Block: KG-ONN-2004/1. In this well the completion casing is 7" casing tied to well head.

The well was initially drilled with 26" hole and 20" casing was cemented with shoe at 613.62m. Thereafter, 18.1/2" hole was drilled down to 1719m and then under-reamed to 20" hole size prior to lowered of 16" casing. The 16" casing was cemented with shoe at 1405.2m. Subsequently, 14.3/4" hole was drilled down to 3135m and under-reamed to 16" hole and then cemented the hole with 13.5/8" casing shoe at 3126m. The 12.1/4" hole was drilled down to 4535m and cemented with 9.5/8" x 9.7/8" casing shoe at 4532.06m. Finally, 8.1/2" hole was drilled down to 5203m and declared as T.D. on 14.09.2016. The 8.1/2" hole was cased with 7" liner and cemented with shoe depth at 5202m. However, during well testing the 7" liner was tied up to well head for well safety and therefore the entire completion string in this well is 7" casing

WELL DATA LOCATION -T

Block	KG-ONN-2004/1	
Well Name	T	
Operator	OIL INDIA LIMITED	
Area / Basin	East Godavari Sub Basin	
District, State	East Godavari District , Andhra Pradesh	
Category	Exploratory 'A'	
Objective	To probe the Lower Cretaceous Syn-rift sediments of Gollapalli Formation	
Elevation details	GL (Above MSL): 7.04m, RT-GL : 11.64m, K.B (Above MSL) : 18.68m	
Datum & Projection	UTM ZONE 44N-WGS 84 SPHEROID	
Co-ordinates	Latitude	Longitude
	16° 40' 24.49"N	82° 05' 08.50" E
Well Profile	Vertical	
Target Depth	5200m MD /5200m TVD/ Basement	
Drilled Depth	5203m MD /5199.5m TVD/ Basement	
Temperature /Pressure	425DegF / 13,300psi(Max)	

3.0 TESTING STRING

The following may be used as test strings for conducting well test.

Casing/Liner Size	Test String
7" Casing/Liner	3-1/2" TENARIS Tubing(ID 2.548") W533connection)

4.0 TESTING FLUID

CaCl₂ brine, CaBr₂ brine, CaCl₂+ CaBr₂ brine, KCl Brine, KCl+CaCl₂ brine, water, drilling mud are likely to be used as the testing fluid. The equipment proposed should be compatible for this.

5.0 SCOPE OF WORK

Oil India Ltd. has planned to hire for a period of 6 months (with provision for extension upto another 6 months) Mud Engineering Services along with Supply of Mud/brine making Chemicals and Waste Management Services along with required manpower for utilizing the equipment provided by the Bidder for carrying out well testing operations in vertical and deviated wells. List of mud making/Brine making chemicals and consumables are attached as ANNEXURE-A .OIL intend to test the first well Location G by mid-January, 2019. Mobilization is planned tentatively by end December, 2018. OIL seeks Expressions of Interest (EOI) from contractors interested in providing mud engineering and waste management services from the prospective service providers who desires to participate in the tender for single, multiple or bundle services, reflecting their services portfolio and company profile. The bundle services under the name of Mud Engineering & Drill Waste Management (**ME&DWM**) includes.

- Mud Engineering Services including personnel, mud chemicals, testing chemicals, filtration unit and consumables
- Drill Waste Management services including personnel, equipment, effluent treatment chemicals and consumables.

Interested Parties are requested to furnish the following documents within 15 days of publication of this advertisement to the address given below. OIL reserves the rights to reject or accept without assigning any reasons, in whole or in part, any EOI document.

6.0 GENERAL REQUIREMENT

6.1 Vendor Qualification Criteria

Pre-qualifying criteria Mud Engineering & Drilling Waste Management Services

- a) Minimum 5 years of corporate experience in providing mud engineering & drilling waste management services in-house to E&P operators at the time of publication of this EOI.
- b) Bidder must have experience of providing Mud Engineering & DWM Services to at least 5 wells in last 5 years prior to publication of this EOI.
- c) Bidder must deploy competent personnel such as mud engineer with minimum 5 years of testing experience. The DWM and Brine filtration Operator with minimum 3 years of relevant experience.
- d) Must have established Health, safety, security and environment management system with sound track record.
- e) The average annual turnover in any of the last three accounting years should be minimum Rs. 2 crores (USD 285000). Net worth of bidder should be positive in preceding financial year.

In case of consortium of companies, the Leader of consortium should satisfy the experiences from a) to d) above. However, any one of the consortium members individually shall have to meet the financial turnover criteria as mentioned in e) above.

Documents to be submitted by Applicants

- i. Complete administrative and financial details of the company with audited annual reports for last 3 years.
- ii. Organizational chart, qualification and experience of key personnel.
- iii. Details of major equipment owned for Services per categories.
- iv. List of similar contracts executed during last 3 years.
- v. Brief on Health, Safety, Environment, Quality Assurance and Control systems followed.
- vi. Details of nearest service facility and technical support available for operations within India.
- vii. Current commitments.
- viii. Any other information that will establish that the company is a competent service provider.

6.2 Documents of experience is necessary for the following personnel.

- i. Mud Engineer: Contractor shall provide one Mud Engineers in 12 hours shift from date of testing of the wells till well completion. The Mud Engineer deployed at the rig shall have an experience of minimum 5 years as a mud engineer along with at least experience of 02 production wells in which the proposed brine systems has been used.

- ii. Bidder has to provide a panel of at least 6 Mud Engineers who shall be attending the field duties during the contract period. Authenticated proof of experience as specified should be provided duly endorsed by the bidder under his signature and seal. The empaneled mud engineers will be interviewed by the operator and the operator reserves the right to reject the name/names who are not up to the mark. Subsequently if the field performance of the empaneled engineers is not satisfactory, they shall be called back.
- iii. Brine Filtration Unit Operator: The brine filtration unit operator proposed to be deployed should have at least 3 (three) years' experience in handling and running Brine Filtration units.
- iv. Documents of experience is necessary. Bidder shall submit CV's of the personnel for approval prior to commencement of the operations.
- v. Contractor shall ensure that the proposed manpower being deployed have completed all safety trainings.
- vi. The bidder shall ensure that all personnel provided have adequate command in English language, both written and spoken.
- vii. Indian laws require all foreign national to have business Visa (work permit) to work in India. Also there are restriction on citizens of certain countries being able to work in India. Bidders are advised to seek appropriate government approvals prior to selecting their crew/ personnel.

7.0 Reports on Requirement

Mud/Brine report, Fortnightly and monthly report, Chemical consumption report. End of Well report, detailed report on daily operation pertaining to brine /mud parameters maintained, DWM Report, Test report such as water disposal test report, Effluent treatment report, water sample report, sample analysis reports and any other report under request etc. thereof.

NOTE TO BIDDERS

- 1) E-mail submissions will be acceptable in a compressed format (no attachment greater than 30 Mb, ZIP files not accepted). If submissions via hard copy, envelope be super scribed with respective service desire to provide.
- 2) This document is for inviting expression of Interest from the potential bidders for their participation in subsequent OIL's tender. The contents of the document are tentative in nature and is subject to change at the discretion of Oil India Limited. Qualifying criteria for participating in tender would be provided subsequently as part of tender document. Mere participation of a service provider in EOI does not entitle a bidder to participate in tender.

ANNEXURE-A

List of mud chemicals required for well testing operation and kill fluid preparation

1. Baryte of 4.2sg
2. Bentonite
3. H₂S Scavenger
4. Oxygen Scavenger
5. HPHT Viscosifier
6. Caustic Soda
7. High Temperature Fluid Loss Controller
8. Soda Ash
9. Sodium Bicarbonate
10. Corrosion Inhibitor(Amine Base)
11. Calcium Bromide powder
12. Calcium Bromide brine
13. Calcium Chloride powder
14. Calcium Chloride brine
15. KCl powder

List of consumables required for DWM unit and Filtration Unit

1. Cartridges 5 μ
2. Cartridges 10 μ
3. Cartridges 20 μ
4. Cartridges 25 μ
5. Cartridges 40 μ
6. Flocculants

The requirement of above chemicals and consumable s are tentative. However, the requirement of chemicals may vary depending upon the hydro fracturing fluid selection.

(iii) WIRELINE LOGGING SERVICE:

1. Introduction

OIL India Limited, KG Basin Project (OIL) invites Global Expression of Interest (EOI) from interested and reputed contractors for providing wireline logging services with experienced crew primarily for testing and completion of exploratory HPHT wells in block KG-ONN-2004/1, EG District, Andhra Pradesh.

Note: The contractors having their own wireline logging service tools and equipment along with experienced crew are qualified to participate. Any submission through agents or subcontractors or intermediaries will not be acceptable.

In case of consortium of companies, the Leader of consortium should satisfy the experience as mentioned against point 3.0 {srl. nos. (a) to (e)}. However, any one of the consortium members shall have to meet the financial turnover criteria as mentioned in point 3.0 {srl. no. (f)}.

2. Brief description, work scope and specifications

WIRELINE SERVICES: SCOPE OF WORK:Oil India Limited is planning to hire wireline logging services from reputed wireline logging service companies for carrying out cased hole logging, perforation in its onshore fields in Andhra Pradesh, India. The services will be required for **06 (Six) months** with a provision for extension of further upto **06 (Six) months at the same rates, terms and conditions with provision of early termination.**

2.1 Total One (01) number of Logging Units along with logging tools/equipment /services and data processing service is required. The services required are categorized as follows:

- a) Logging Unit (with standard + special tools) for Gamma ray, Cement Bond Log, Variable density Log, Casing Collar locator, Acoustic imaging tools.
- b) Through Tubing and Casing gun perforation tools having deep penetration high density shot (6spf) and big entry hole diameters suitable for 7" Casing and 4 ½" Liner sizes.
- c) Tools for setting 4 ½" and 7" packers and bridge plugs.
- d) Explosive jet cutters and split cutters for cutting tubings (OD 3 ½"and 4 ½"), 5" Drill pipes & Casings (OD 5 ½", 7" and 9 5/8").
- e) Mechanical cutters for cutting tubings (OD 3 ½"and 4 ½"), 5" Drill pipes & Casings (OD 5 ½", 7" and 9 5/8").
- f) Production logging tools and services for recording Gamma, Casing Collar locator, Pressure, temperature and inclinometer data.

Note: Bidder to submit detailed worksheet to justify that the service Package able to carry out logging jobs required at completion & testing operations as specified above.

3. Vendor Qualification Criteria

Vendors will be qualified based on the basis of the following criteria:

- (a) Corporate experience in providing the requested Wireline logging Services with in-house/leased logging units to E&P companies for last 5(Five) years reckoned from the publication of this EOI.
- (b) Experience of wireline logging operations of HPHT wells with depth up to 5000m, bottom hole temperatures upto **450°F** and formation pressures up to 15000 psi, in last 5(Five) years reckoned from the publication of this EOI.
- (c) The key Wireline Logging personnel (Engineer and other operators) should have minimum experience of 02 (two) High Pressure High Temperature well logging operations with sour gas handling experience, using 15M BOP stack and bottom hole temperatures upto **450°F**.
- (d) The vintage should not be older than 7 years.
- (e) Should have Health, Safety, Security and Environment Management System and sound track record.
- (f) The annual turnover in any of the last three accounting years should be minimum Rs.4.5 Crore (USD 0.65 million). Net worth of bidder should be positive for preceding financial/accounting year.
- (g) Should be in a position to make available services at site by January 2019.

Note:Vendors should clearly mention (point wise) whether they satisfy the above criteria & support it with necessary documentary evidence.

4. Documents to be submitted:

To qualify for consideration, contractors are required to supply one (1) set of the following documentation, with the specific chapters, separated by dividers, in the same order as set out here below:

- a) A separate section summarizing the contents chapter by chapter of the prequalification document.
- b) Contractor's general structure and organisation, including the branch / sub-division dedicated to such activities.

- c) Details of company's Health, Safety and Environmental Policy and Programme together with HSE Management System.
- d) Safety records detailed for accidents, injuries, damage and summarized for near-misses, LTI over the past five (5) years.
- e) Quality Assurance System certified ISO 9001 or equivalent.
- f) Details of relevant verifiable experience of providing wireline services in HPHT wells that have been undertaken as main contractor in the last five (05) years, inside or outside India.
- g) Reference (including emails and telephone numbers) of three major customers that can be contacted for information / reference.
- h) Description and specifications of suitable wireline logging unit currently owned/leased by the contractor together with proof of ownership/lease agreement.
- i) Resume of key personnel to be involved in the services with High Pressure High Temperature testing experience in their respective position.
- j) Qualifier's audited accounts for the past three (3) accounting years.
- k) All relevant information concerning contacts, telephone, fax, e-mail of the contractor's representative.

In addition, applicants must provide two (2) electronic copies (CD ROM) of the prequalification documents.

Failure to provide any of the listed documents or information shall negatively affect the qualification to participate in the tendering process. Notwithstanding the submission of this documentation, OIL is neither committed nor obliged to include any contractor on the tender list or award any form of contract to any contractor and/or associated companies.

Please note that this is not an invitation to tender. Full tendering procedure will be provided only to contractors that have been successfully pre-qualified through this advertisement and this may consist of safety / technical audit of facilities/equipment to determine those suitable to provide this service.

III. GEOGRAPHICAL POSITION OF THE BLOCK

The Block KG-ONN-2004/1 in East Godavari district of Andhra Pradesh is accessible to through air, water, rail & road as given below.

1. Nearest Airport :
 - Vizag : 180 Km
 - Rajahmundry : 70 Km
2. Nearest Sea Port
 - Kakinada : 15 Km
3. Nearest Railway Junction
 - Samalkot : 20 Km
 - Kakinada : 15 Km
4. National Highway: : NH-5 / 216

NOTE :

Please note that this is not an invitation to tender. Full tendering procedure will be provided only to contractors that have been successfully pre-qualified through this EOI and this may consist of safety / technical audit of facilities/equipment to determine those suitable to provide this service.

Interested Parties having relevant experience and expertise as above are invited to submit their EOI at our e-mail id: oilkgbprojecteoi@gmail.com within **28.09.2018**, followed by hard copies and two(2) clearly labelled electronic copies (CD ROM) of the same through courier/post super-scribing **Expression of Interest No. OIL/KGB/EOI-47** for “HIRING OF (i) SERVICE RIG PACKAGE (1400HP Minimum) WITH CREW, (ii) MUD ENGINEERING SERVICES AND (iii) WIRELINE LOGGING SERVICE IN NELP-VI BLOCK: KG-ONN-2004/1 IN EAST GODAVARI DISTRICT OF ANDHRA PRADESH & YANAM DISTRICT OF PUDUCHERRY, INDIA” at the following address:

**CHIEF GENERAL MANAGER (KGB&BEP)
OIL INDIA LIMITED,
D.No.11-4-7, 3rd Floor,
Nookalamma Temple Street, Ramaraopeta,
KAKINADA- 533004, Andhra Pradesh.
Contact No: 0884-2302176.**

The offer(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.

The offer(s) should have clear indication whether the same meet the requisite experiences as mentioned in Pre-qualifying criteria.

OIL reserves the right to (a) accept or reject any/all EOIs submitted by parties (b)cancel the process at any time without any liability and assigning any reason thereof.

Interested parties can submit EOI for any one of the 3 (three) services intended to be hereof.