

GLOBAL EXPRESSION OF INTEREST NO. OIL/KGB/EOI-53

Oil India Limited, KG Basin Project, Door No. 11-4-7, Nookalamma Temple Street, Ramaraopeta, Kakinada-533004, Andhra Pradesh invites Global **Expression Of Interest(EOI)** for **“Hiring of Bundled Well Testing Service” for extended Production Testing of HPHT wells** from reputed E&P VENDORS for Exploratory HPHT Wells at a depth of 4800 (TVD) meters in NELP-VI block: KG-ONN-2004/1. Interested Parties having relevant experience and expertise **(details are available at OIL’s website-www.oil-india.com)** are invited to submit their EOI(s) at our e-mail id: **oilkgbprojecteoi@gmail.com within 15.04.2020** followed by hard copies of the same through courier/post. The offer(s) may also be uploaded in Parties’ FTP server/File sharing website (portal) and the link(s) may be provided to OIL at its e-mail within above specified period.

**OIL INDIA LIMITED
KG BASIN PROJECT
KAKINADA**

GLOBAL EXPRESSION OF INTEREST (EOI) NO. OIL/KGB/EOI-53 FOR “HIRING OF BUNDLED WELL TESTING SERVICES” FOR EXTENDED PRODUCTION TESTING OF HPHT WELLS FOR EXPLORATORY HPHT WELLS IN NELP-VI BLOCK: KG-ONN-2004/1 IN EAST GODAVARI DISTRICT OF ANDHRA PRADESH, INDIA.

1.0 INTRODUCTION

OIL India Limited (OIL) invites Global Expression of Interest (EOI) from interested and reputable contractors with relevant experience for its extended production testing Campaign in the block- KG-ONN-2004/1 for provision of various services as mentioned below.

2.0 COMMUNICATION TO THE BLOCK

The communication to the Block KG-ONN-2004/1 is available through air, water, rail & road as given below:

1. Nearest Airport :
Vizag : 180 Km
Rajahmundry : 60 Km
2. Nearest Sea Port
Kakinada : 15 Km
3. Nearest Railway Junction
Samalkot : 30 Km
Kakinada : 15 Km
4. National Highway: : NH-5

3.0 BRIEF DESCRIPTION, WORK SCOPE AND SERVICES REQUIRED

As a part of the Exploratory campaign NELP-VI block: KG-ONN-2004/1, 2 (two) exploratory HPHT wells are planned for extended production testing in already tested HPHT wells. The wells have already been drilled and hydrocarbon is established in both the wells in the first phase of the campaign and are now in a temporarily abandoned state. It has now been decided to open up already tested zone in Gollapalli formation in well TLK#1 and test new zones in YLK#1 (1 zone in Gollapalli formation (HPHT) and one zone in Raghavapuram Formation (non-HPHT) at depth of 3500 m) and establish the potential of the wells/zones after long term production testing.

It is now planned to carryout long term production testing of the wells by engaging reputed E&P VENDOR capable of offering the below mentioned services alone or in consortium.

To carry out the **Extended Production Testing** of the wells, it is intended to hire the below mentioned service from competent and experienced Vendors.

SERVICES ON MONTHLY RENTAL

- (i) **SURFACE WELL TEST**: 15K Surface Well testing Setup with 15K Flow Head comprising of Test Manifold, Sand filter, Gauge and Surge Tank, 3-Phase separator, Emergency Shut down device, transfer pumps, chemical injection pumps, Ethanol/methanol Injection system, Liquid and Gas Flaring system with remote ignition, Surface Sampling service, Oil and Gas flow meters, Hydraulically operated chokes, surface data acquisition system, automatic remote controlled surface safety valve, temperature, pressure flow measurement, adequate surface flowlines etc. Well test Design and Well test data interpretation with Reservoir engineering support should be part of the package.

- (ii) **DST & TCP SERVICE**
 - (a) **Drill Stem Testing (DST)**: Electro Mechanical DST tools (Dual Valve) or Conventional DST tools of Safety Joint, Hydraulic Jar, Tubing tester Valve, Multicycle Circulating valve, Multi cycle tester valve, Single Shot Reversing valve, Pump Through flapper safety valve, RA marker sub, Gauge Carrier for Electronic gauges, Electronic gauges, Subs, Joints, Crossover for adapting to tubing string (3.1/2" x 15.8 ppf Tenaris Wedge 533 and 3.1/2" x 15.5ppf Vamtop) and TCP assembly. The DST tools should be suitable for HPHT environment with 425° F temperature and differential pressure rating of 17500 psi.

 - (b) **TCP SERVICE**: 3.1/2" Tubing Conveyed Perforation Gun to be conveyed with 3.1/2" Tubing and LTSA and 4.5" TCP Gun to be conveyed with 3.1/2" tubing or Drill pipe for Well Perforation. Suitable gun system for 20K psi and 425° F to be activated with Hydraulic firing head (single and redundant option), Debris sub, TCP accessories.

- (iii) **FLARE STACK**: Modular Self Supported Elevated Silenced flare stack of 90 feet height for continuous flaring of gas for flow rates upto 20MMSCFd with carryover CGR of 5 to 3 bbl/MMSCF. Noise limit for both continuous and peak noise to 70 dBA at 213 ft (65 m) from flare at ground level at maximum flow rate.

SERVICES ON CALLOUT

- (iv) **CTU+NPU+FPU:** Well activation and Clean out service with 1.25/1.5” Coil Tubing Unit (CTU) of QT900/HS90/GT90 grade, Nitrogen Pumping Unit (NPU)15K package, Fluid Pumper Unit(FPU)15K package, Quad and Combi BOP 15 K package, Nitrogen Storage Tanks, Acid Storage Tanks, Dedicated Crane, along with supply of liquid Nitrogen, Acids, chemicals, corrosion inhibitors etc. necessary well head crossovers, risers, treating irons, hoses, etc. for well stimulations jobs. CT will also be utilized as velocity string if required to study the well potential in reduced tubing size.
- (v) **SLICKLINE SERVICE:** Slick-line service for live condition measurement of pressure and temperature, bottom hole sample collection, and downhole operation of completion tools. Supply of HPHT downhole pressure and temperature gauges and gauge carrier suitable for 425°F with minimum 15 days exposure time/battery backup.
- (vi) **TRS:** Tubular Running & Handling service for 2.7/8” to 5.1/2” tubulars with Diesel Hydraulic power unit, Torque turn Equipment, Heavy duty Hydraulic Power Tongs, 2”, 2.7/8”, 3.1/2” Tubing gears comprising of 250 ton side door elevators, single joint elevator, 250 ton Hand Slips, 250 ton Foot slips, Manual Tubular Tongs (2.7/8” to 5.5”), Safety Clamp, Thread protector, Stabbing guide, drift weight, etc.
- (vii) **WIRELIN LOGGING:** Wireline logging unit with tools, charges and consumables for correlation, through tubing perforation, casing gun perforation and plug setting operations capable of operating at bottom hole pressure up to 15000psi and temperature up to 425°F.
- (viii) **WELL COMPLETION-RENTAL TOOLS**
- a. Running & Setting Tool for Hydraulic setting of 7” Packer suitable in HPHT environment.
 - b. Wireline adapter kit for Bridge Plug setting in HPHT environment.
 - c. 7” and 9.5/8” Well bore clean out tool comprising of Magnet, brush, scraper suitable for HPHT environment.
 - d. 7” DST packer rated to 10,000 psi and 350° F.
 - e. 7” Mechanical Set Service Packer rated to 10,000 psi and 350° F.
 - f. Milling assembly comprising of mill bit, magnet, fishing tool (over shoot, junk basket, RCJB, safety joint, Hydraulic jar etc.) for milling and retrieving of 7” Packer and 7” Bridge plug.
 - g. Roller –Reamer for Reaming of 7”x 35 ppf Casing.

CONSUMABLES

(ix) **WELL COMPLETION-CONSUMABLES**

a. **PACKER:**

- i. **HPHT:** Supply of 7" HPHT Permanent Packer with Seal Bore extension and LTSA assembly rated to 15,000 psi differential pressure and 450°F. (35 ppf casing). All necessary cross overs to be provided.
- ii. **Non-HPHT:** Supply of 7" Retrievable Packer with accessories rated to 10,000 psi differential pressure and 350°F (35 ppf casing)

b. **BRIDGE PLUG:**

- i. Supply of 7" Bridge Plug rated to 15,000 psi differential pressure and 450°F (35 ppf casing)
- ii. Supply of 9.5/8" Bridge plug rated to 12,000 psi and 350°F.

All necessary cross-over, connections etc. to be provided for compatibility with tubing, drill pipe, wireline setting tool while running in.

Below representative characteristics of the wells may be considered for design purpose while proposing for the above cited service.

Non-HPHT Zone

Completion: 7" Liner completion in 9.5/8" casing (35.0 ppf, Grade –SM 125 TT)

Target Object Depth: 3400-3500metre.

Pressure: 9500psi (Max); Temperature: 350° F (Max)

HPHT Zone

Completion: 7" Liner completion in 9.5/8" casing (35.0 ppf, Grade –SM 125 TT)

Target Object Depth: 4000-4800 metre.

Porosity: 6 to 12%

Permeability: 0.053 mD (Average); 0.159 mD (Maximum)

Pressure: 15,000 psi (Max); Temperature: 425° F (Max)

H₂S = 40-120 ppm, CO₂ = 5-15% (7% likely)

Fracture gradient = 0.865 psi/ft

4.0 VENDOR PRE-QUALIFICATION CRITERIA

The contractor(s) must fulfill the following minimum criteria:

(A) FOR VENDOR HAVING RELEVANT EXPERIENCE OF ITS OWN FOR PROVIDING BUNDLE SERVICE

- (i) Minimum 10 years of corporate experience in providing all the services required for Production testing campaign as mentioned in **clause 3(i) to 3(ix)** above in-house to E&P operators at the time of publication of this EOI.
- (ii) The Contractor should have experience of successful execution of “**Bundled Well Testing services**” to at **least 5 nos. of wells** of which **at least one (1) should be HPHT** well.

All such non HPHT well and HPHT well jobs should have been done in the **last 7 years** prior to publication of this EOI. Details of experience (viz. well Generic details, pressure & temperature of the wells, Test results, Well location/Field Location, Clients name) with scope of services are to be provided.

(B) FOR VENDOR WHO DOES NOT HAVE RELEVANT EXPERIENCE FOR BUNDLE SERVICE ON ITS OWN BUT CAPABLE OF PROVIDING ALL THE SERVICES AS A CONSORTIUM.

- (i) In case, the bidder does not have all the services of their own, they can have pre-tender tie-up (to form a consortium) for other category of services to offer all the services mentioned in **clause no 3.0 (i) to (ix)** above together. The **LEADER OF THE CONSORTIUM** should clearly define role responsibilities of each **consortium partners** and their services offering. An undertaking in this respect should be provided with EOI documents regarding the role and responsibilities of each **CONSORTIUM PARTNERS**.
- (ii) In case of consortium, the **LEADER OF THE CONSORTIUM** should have minimum 10 years in-house corporate experience of providing “**Well Testing Service**” to E&P operators at the time of publication of this EOI.
- (iii) The **leader of the consortium** should have experience of successful execution of **WellTesting Services** to at **least 5 nos. of wells** of which **at least one (1) should be HPHT** well. All such HPHT & non HPHT jobs should have been done in the last 7 years prior to publication of this EOI. Details of experience (viz. well Generic details, pressure & temperature of the wells, Test results, Well location/Field Location, Clients name) with scope of services are to be provided.

(iv) Each consortium partner should clearly detail the category of service they will offer. They should provide relevant experience details of such services, (viz. well Generic details, pressure & temperature of the wells, Test results, Well location/Field Location, and Clients name) and should have mandatory experience of working in atleast 5 wells in the last 7 years prior to publication of this EOI.

(C) The key operating personnel (Project Manager) for offered services should have minimum experience of 15 years in Completion/Well Testing services in Onshore/offshore Project and must have experience in **“Well Testing Services in minimum 1 (one) HPHT well.**

Vendor should submit bio-data of the proposed personnel(s).

(D) Must provide services for full scope of work i.e. to provide the above services as a package for the entire period of the contract.

(E) Must have established Health, safety, security and environment management system with sound track record.

(F) The average annual turnover in last three accounting years should be INR 20Crores. In case the bidder is a consortium, any one of the consortium member can individually meet the criteria and other members shall meet minimum 25% turnover requirement, i.e INR 5.0 Crores.

(G) The turnover of the bidder should be positive for the preceding accounting/financial year.

5.0 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 (k):

a) Vendor's general structure and organization, including the branch / sub-division dedicated to such activities.

b) Detailed time and cost effective proposal for executing the integrated extended production testing campaign including re-completion of the well.

c) A separate section detailing the contents chapter by chapter of the pre-qualification document. List of services that will be provided by the vendor using the in house capabilities or sourced from third parties under joint ventures/consortium with details of such vendors.

- d) Details of project executed pertaining to offshore/onshore drilling , completion , production testing and rig services with crew that have been undertaken as main contractor.
- e) Reference (including emails and telephone numbers) of three major customers that can be contacted for information.
- f) Description and specifications of suitable Surface well testing package, Well completion consumables, DST & TCP package, CTU +NPU+FPU package, Wireline logging package, Flare stack package, Tubular Running service package etc. planned to be placed. Availability of the package and mobilization time frame.
- g) Resume of key personnel (with Completion, surface production testing, DST+TCP, CTU+NPU, Wireline logging etc. experience) proposed to be involved in the project mentioning experience in their respective position.
- h) Qualifier's audited accounts for the past three (3) years
- i) Details of vendor's Health, Safety and Environmental Policy and Programme together with HSE Management System.
- j) Quality Assurance System certified ISO 9001 or equivalent.
- k) All relevant information concerning contacts, telephone, fax, e-mail of the contractor's representative.

6.0 **GENERAL**

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 who 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.

The Bundle Testing service is tentatively required in January, 2021.

The Party (ies) should indicate their best possible mobilization time from the issue of Mobilization notice.

Interested Parties having relevant experience and expertise as above and willing to provide service in the timeframe indicated are invited to submit their EOI at our e-mail id: **oilkgbprojecteoi@gmail.com** within 15.04.2020, followed by hard copies of the same through courier/post super-scribing **“Expression of Interest No.**

OIL/KGB/EOI-53 for “HIRING OF BUNDLED WELL TESTING SERVICES” at the following address:

**Executive Director (KGB&BEP)
OIL INDIA LIMITED,
D.No.11-4-7, 3rd Floor,
Nookamma Temple Street, Ramaraopeta,
KAKINADA- 533004, Andhra Pradesh.
Contact No: 0884-2302179.**

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.