**GLOBAL EXPRESSION OF INTEREST FOR PROVISION OF VARIOUS EQUIPMENT, CHEMICALS, SOFTWARE AND SERVICES RELATED TO WELL INTERVENTION /COMPLETION/ARTIFICIAL LIFT/ FRAC/ PRODUCTION TECHNOLOGY/ WORK OVER REQUIREMENTS FOR RJ-ON-90/1, RAVVA AND CB-OS/2 BLOCK**

Cairn Oil and Gas (the “Company”), a vertical of Vedanta Limited is the Operator of the Onshore **RJ-ON-90/1** block (located in Barmer District of Rajasthan, India), Offshore **CB-OS/2** (located on the West Coast of India) and Offshore **Ravva** Block (located on the East Coat of India) on behalf of itself and its Joint Venture (JV) partners.

Cairn Oil & Gas invites interested suppliers with proven capabilities and demonstrated performance in similar requirements to express their interest in pre-qualification to participate in the International Competitive Bidding (ICB) Process for the services/supplies listed below:

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| **Sl. No.** | **Category** | **Services** | **Description** |
| **1** | Artificial Lift | Electrical Submersible Pumps (ESP) - Supply & Service | Scope includes provision of supply of ESP systems and services associated with installation & maintenance of the same. |
| **2** | Fluid Level Analyser (FLA) & Dynamometer - Supply & Services | Provision of different types of fluid level analysers & dynamometers based on the field application for monitoring downhole parameters in artificially lifted wells |
| **3** | Gas Lift valves - Supply | Provision of different types of gas lift valves for conducting gas lift |
| **4** | Insert Progressive Cavity Pumps (IPCP) - Supply & Services | Scope includes provision of Insert PCP systems and services associated with installation & maintenance of the same. |
| **5** | Jet Pump - Supply | The scope includes the provision of Reverse circulation Jet Pumps & associated spares.  |
| **6** | Progressive Cavity Pump (PCP) - Supply & Service | Scope includes provision of Progressive Cavity Pump (PCP) systems (downhole & surface) and services associated with installation & maintenance of the same.  |
| **7** | Rod Running Services | Provision of rod running rig equipment and services for troubleshooting the Sucker Rod Pumps (SRP) & Progressive Cavity Pump (PCP) wells. |
| **8** | Sucker Rod Pumps (SRP) - Conventional Surface Equipment | Scope includes provision of surface systems for conventional SRP systems in Rajasthan assets. |
| **9** | Sucker Rod Pumps (SRP) - Downhole Equipment | Scope includes provision of downhole system for both conventional (Horse Head) and (LRP/HRP) unconventional SRP systems. |
| **10** | Sucker Rod Pumps (SRP) - Maintenance Services | Provision of services for installation, maintenance and dismantling of the conventional & unconventional SRP systems. |
| **11** | Artificial Lift | Sucker Rod Pumps (SRP) - Unconventional Surface Equipment | With an objective to minimize the footprint with rod pumping system, application of Linear Rod Pump (LRP) & Hydraulic Rod Pump (HRP) has been identified in some of the Rajasthan fields. Scope includes provision of unconventional surface systems. |
| **12** | Standalone Jet Pump System | The scope includes the provision of Jet Pumps along with surface equipment to handle, separate and re-circulate the power fluid into the well. |
| **13** | Sucker & Drive Rods - Supply | Provision of the different types of rods for rod-driven Progressive Cavity Pumps (PCP) & Sucker Rod Pumps (SRP) operations. |
| **14** | Surface equipment for Progressive Cavity Pumps (PCP) -Supply and Services | Provision of supply and associated services for the surface equipment (including but not limited to VFD, motor, cables, etc.) required for operating downhole Progressive Cavity Pumps (PCP). |
| **15** | CompletionCompletion | Blow-Out Preventer - Supply | Provision of blow out preventer of various sizes. |
| **16** | Chokes | Choke Valves for Electrical Submersible Pumps (ESP), Progressive Cavity Pumps (PCP), Sucker Rod Pumps (SRP), Jet pump wells, self-flow wells and water injection wells with all associated equipment and accessories and service tools required for the choke valves. |
| **17** | Coiled Tubing | Provision of coil tubing (1”, 1.5” & 1.75”) deployed in wells of Rajasthan Asset. |
| **18** | Completion Equipment - Supply & Services | Provision of tangibles and services for completion equipment. Tangibles include but not limited to completion equipment like packers, SSDs, fluid loss, Valves, flow control equipment etc. Tangibles also include permanent Down hole gauges, chemical injection lines, clamps etc. Services include a minimum of WBCO services, equipment redressing, pressure testing, running in and pull out of hole. |
| **19** | Completion Fluids - Supply & Services | Supply and associated services for the chemicals to prevent and inhibit specific formation damages related to scales, wax, asphaltenes, etc., including their specific placements and diversion techniques. |
| **20** | Heater String Spooler | Provision of heater string spooler and associated manpower services for running and pulling out Coil tubing (Heater string) deployed on completion/ workover rig. |
| **21** | Lined Tubing - Supply | Provision of High-Density Polyethylene (HDPE) lined tubing for rod lifted wells. |
| **22** | Oil Country Tubular Goods (OCTG) - Supply | Provision of Oil Country Tubular Goods – casings, tubings, pup joints, crossovers, etc.  |
| **23** | Profile Plug & Prongs – Supply | Provision of profile plugs as per completion requirement |
| **24** | Thread Cutting Services | Provision of thread cutting services as per the Oil & Gas standards for tubing and casings to be deployed in wells of Rajasthan asset. |
| **25** | Tubing Running Services | Provision of running tubing and other jewellery during completion & workover operations |
| **26** | Workover Fishing Tools – Services | Provision of services for conducting fishing during workover operations. |
| **27** | Frac | Hydraulic frac Services | Provision of Frac Services on Rental basis for conducting Hydraulic Fracturing of different types, including but not limited to Conventional Cross-linking fracturing, Linear Gel / Slick water fracturing, fracturing in tight oil & tight gas using cross-linked gel etc. with all the equipment for the fracturing. Provision to include Chemical Tracer, Hot Oilers unit, Well head Isolation tool. |
| **28** | Proppant – Supply | Provision of supplying proppant for hydraulic fracturing. |
| **29** | Sand Management Services | Provision of equipment, spares, chemicals, services for Sand Control including but not limited to Frac Pack, Gravel Pack, Standalone screens, consolidation, and sandstone acidizing. |
| **30** | Production Technology | Boronized Tubing - Supply | Provision of Boronized tubing. |
| **31** | Production Technology Studies | Provision of laboratory studies and testing services including fluid analysis (water, oil and other chemicals), core-studies, formation damage analysis, material testing and failure analysis services. |
| **32** | Petroleum Engineering Data Analytics & Automation | Provision of software capable of analysing data acquired from wells, providing automation of well control services  |
| **33** | Petroleum Engineering Software | Provision of software including but not limited to Corrosion Prediction and Material Selection Software; Scale Prediction Software etc.,  |
| **34** | Well ServicesWell ServicesWell Services | Bridge Plugs - Supply & Services | Down hole gauges, chemical injection lines, clamps etc. Services include a minimum of WBCO services, equipment redressing, pressure testing, running in and pull out of hole. |
| **35** | Caravan Services | Provision of services related with availability of the caravan with all the provisions to suit the operation in desert type environment |
| **36** | Cement Dumping & Squeeze services | Supply of cement (with additives and accessories) and services for cement dumping/ squeezing jobs through coil tubing.  |
| **37** | Chemical solution for Water Shut-off jobs | Services and Supply of chemicals for shutting water producing zones in injectors through chemical means such as RPM, VES, cross-linkers with delayed breakers, Ball diverters, etc. |
| **38** | Chemicals for stimulation, workover & fracturing  | Supply of chemicals to prevent and inhibit specific formation damages related to scales, wax, asphaltenes, etc., including their specific placements and diversion techniques. |
| **39** | Coiled Tubing Units | Provision of Coil Tubing Services on Rental basis for conducting different Coil Tubing conveyed Interventions using Coil Tubing Units & tools for Well-Flowback, zonal/selective stimulations, cleanouts etc. |
| **40** | Completion & Well Services Supervisor  | Provision of Manpower for supervising Completion and Well Services activities |
| **41** | Down Hole Video Camera Services | Provision of real-time and memory based downhole camera (conveyed on Eline/Slickline/Coil Tubing Unit) for providing/recording downhole images/videos in water/gas/oil based wellbore conditions. |
| **42** | Eline | Provision of multiple wireline units to support multiple rig / rig-less operations including but not limited to perforations, Production Logging Tools (PLT), RST, bridge plug setting, cement dumping etc. |
| **43** | Flowback Services | Provision of multiple flowback packages to support rig / rig-less operations including but not limited to Flowbacks, well testing, Well clean-up post completion , or Well activation post stimulation etc. |
| **44** | Heating Unit | Provision of Direct/ Indirect Bath Heaters for heating the water and crude based fluids prior to transfer into transport tanks or Production header, etc. |
| **45** | Inflatable Plugs – Coiled Tubing Conveyed | Provision of Inflatable Plugs on Purchase basis and Personnel on Service basis for through tubing intervention conveyed using Coiled Tubing to achieve zonal isolation. |
| **46** | Inflatable Plugs - Eline Conveyed | Provision of Inflatable Plugs on Purchase basis and Personnel on Service basis for through tubing intervention conveyed using E-line to achieve zonal isolation. |
| **47** | Isolation Patch - Supply & Services | Provision of procurement of Isolation Patch and Supply of Running/Retrieving tools and Personnel for sealing/isolating leaks, faulty SSD or GLM etc. |
| **48** | Noise logging tool services | Provision of Sonic based logging tool for detecting any flow in formation matrix, fractures (natural & hydraulically fractured), behind casing, etc. |
| **49** | Pumping Services | Provision of multiple Pumping packages to support multiple rig / rig-less operations including but not limited to High rate Well stimulations with acids , aromatic solvents etc. |
| **50** | Scrapping Services | Provision of mono-cable winch unit for the purpose of scrapping the wax & scale deposition in the completion |
| **51** | Sea Fastening and Removal Services | Provision of Sea Fastening and Removal Services of Coil Tubing and Pumping Equipment on board PSV/barge vessel  |
| **52** | Slickline | Provision of multiple slick line units to support multiple rig / rig-less operations including but not limited to SSD manipulations , Gauge surveys , setting / retrieval of downhole barriers etc. |
| **53** | Slickline conveyed NPR plugs – Supply | Provision of Plugs on Purchase basis for through tubing intervention using Slick line or Eline as mode of conveyance, to achieve zonal isolation. |
| **54** | Supply of Soap Stick, Foam Stick, Gas Stick, Acid sticks and its associated services | Various types of sticks for stimulation and activation of wells  |
| **55** | Surface Well Testing Services | Provision of multiple Surface Well test packages to support rig / rig-less operations including but not limited to Flowbacks, Well clean-up post completion , or Well activation post stimulation etc. |
| **56** | Thru-tubing fishing & milling services | Provision of all the tools & associated services for conducting through-tubing fishing & milling operations. |
| **57** | Thru-Tubing Straddle Packer - Supply & Services | Provision of inflatable straddle packer services to perform selective stimulation jobs. |
| **58** | Tractor & Stroker Services | Provision of Tractor related services are required to convey E-Line downhole tools in the highly deviated or Horizontal wells where gravitational force is insufficient to convey the tool string to desired depth. |
| **59** | Tubing Conveyed Perforation & associated services | Requirement of Tubing Conveyed Perforating, Coil tubing conveyed Perforating for cased and perforated wells of Rajasthan asset |
| **60** | Wellhead Maintenance | Provision of Well head maintenance services to carry out jobs like bleed and lube etc. |

The evaluation for each service/supply shall be done independently.

In view of the nature of the scope, only those suppliers/ Contractors having proven track records in executing similar jobs and meeting the following criteria should respond to this notice:

**Financial Criteria**:

1. Turnover in each of the immediately preceding two financial years should be equal to or more than the estimated average annual contract value.
2. Positive net worth in each of the immediately preceding two financial years.
3. Liquidity ratio shall not be less than 1.00 in each of the preceding Two (02) financial years.

Also, note –

1. Normally standalone financials of the bidding entity only will be considered. However, consolidated financials at the bidding entity level, if available, can also be submitted. Parent/holding company financials can be submitted and considered, subject to submission of financial guarantee and commitment letter, as described under (ii).
2. Where the bidding entity is unable to meet the Financial Evaluation Criteria, Parent/Holding Company Audited Financials can be considered, subject to:

a) Submission of Financial guarantee in the form of 10% Bank guarantee of contract value.

b) Commitment Letter from Parent/Company to provide financial support to the bidding entity.

1. Evaluation will be done only on the basis of the published annual reports / audited financials containing Auditor’s report, Balance sheet, Profit & Loss a/c and Notes to Accounts.
2. In case of unaudited statements (if there are no audit requirements for auditing of financials as per the local law), the financials shall be accompanied by a certificate from a Certified Accountant. Certificate should also mention the fact that there is no requirement of audit of the financials as per the local law.

All qualifications and exceptions brought out in Auditor’s report and Notes to Accounts would be factored in while undertaking financial evaluation

**Technical Criteria**:

1. Bidder must have minimum 3 years of experience in providing relevant equipment and associated services. For services:
2. Rod Running Services
3. Sucker Rod Pumps (SRP) - Maintenance Services
4. Completion & Well Services Supervisor
5. Completion Fluids - Supply & Services
6. Heater String Spooler
7. Tubing Conveyed Perforating (TCP) & Associated Services
8. Thread Cutting Services
9. Tubing Running Services
10. Workover Fishing Tools - Services
11. Hydrofrac Services
12. Sand Management Services
13. Caravan Services
14. Coiled Tubing Unit
15. Down Hole Video Camera Services
16. Eline
17. Flowback Services
18. Heating Unit
19. Noise logging tool services
20. Pumping Services
21. Scrapping Services
22. Sea Fastening and Removal Services
23. Slickline
24. Surface Well Testing Services
25. Thru-tubing fishing & milling services
26. Tractor & Stroker Services
27. Wellhead Maintenance
28. Bidder must have minimum 3 years of experience of providing mentioned equipment & associated services. For supply of:
29. Fluid Level Analyser (FLA) & Dynamometer - Supply & Services
30. Sucker Rod Pumps (SRP) - Conventional Surface Equipment
31. Sucker Rod Pumps (SRP) - Unconventional Surface Equipment
32. Standalone Jet Pump System
33. Chokes
34. Coiled Tubing
35. Completion Equipment - Supply & Services
36. Profile Plug & Prongs - Supply
37. Boronized Tubing - Supply
38. Bridge Plugs - Supply & Services
39. Inflatable Plugs – Coiled Tubing Conveyed
40. Inflatable Plugs - Eline Conveyed
41. Isolation Patch - Supply & Services
42. Slickline conveyed NPR plugs – Supply
43. Surface equipment for Progressive Cavity Pumps (PCP)-Supply and Services
44. Supply of Soap Stick, Foam Stick, Gas Stick, Acid sticks and its associated services
45. Supply of Oil Country Tubular Goods (OCTG)
46. Thru-Tubing Straddle Packer - Supply & Services
47. Lined Tubing – Supply
48. Blow Out Preventer - Supply
49. Bidder must have minimum 3 years of experience of providing mentioned equipment & associated services. Bidders must also have experience in design, engineering & manufacturing capability of relevant downhole pump or equipment. For Supply of:

1. Electrical Submersible Pumps (ESP) - Supply & Service
2. Gas Lift valves - Supply
3. Insert Progressive Cavity Pumps (IPCP) - Supply & Services
4. Jet Pump - Supply
5. Progressive Cavity Pumps (PCP) - Supply & Service
6. Sucker Rod Pumps (SRP) - Downhole Equipment
7. Sucker & Drive Rods - Supply
8. Bidder must have minimum 5 years of experience in manufacturing & supplying relevant chemical/proppant (as per applicability) for drilling, completion, well services, stimulations & fracturing for oil & gas application. For supply of:
9. Proppant - Supply
10. Cement Dumping & Squeeze services
11. Chemical solution for Water Shut-off jobs
12. Chemicals for stimulation, workover & fracturing
13. Bidder must have minimum 3 years of experience in providing similar services to various oil and gas operators.
14. Production Engineering Data Analytics & Automation
15. Production Engineering Software
16. Bidders must have its own laboratory to carry out the Production Technology studies.

1. Production Technology Studies

The Company reserves the right to bundle two or more services (or supplies) listed above. In such case, bidders must have minimum 3 years of experience in providing the bundled services.

The interested suppliers should evince interest to participate in the Expression of Interest by clicking on the **“Evince Interest” link** against the corresponding EoI listing on the Cairn website i.e. http://www.cairnindia.com and submit their contact details online. Further to this, interested suppliers/ contractors would be invited to submit their response via Smart Source (Cairn’s e Sourcing Platform). The suppliers/contractors would be requested, as a minimum, to submit the following documents and details at an appropriate stage:

1. Letter of interest clearly indicating the Project references.
2. Company's financial performance documents (Audited Balance sheets and Profit and Loss statements, Auditors Report and Notes to Accounts etc.) for last 2 (two) years. Latest financial statement should not be older than 12 months on the date of submission of response to Expression of interest.
3. Detailed Company Information with Organisation structure, List of manpower with CVs of key Personnel, Plant and Machinery list mentioning year of manufacturing, Support agencies and other facilities & resources.
4. Details of completion of similar type of projects in the last five years under headings:
	1. Brief scope of work
	2. Value of work in INR
	3. Contractual Duration
	4. Actual completion of Project
	5. Clients name
	6. Contact details of the Client ( Cairn may approach the client directly for the feedback)
	7. Safety Certification / Inspection of plant and machineries
	8. HSE statistics, LTI graph etc.
5. Typical Project Planning and Execution methodology.
6. List of all jobs under execution with the value of the Job and percentage completion. (With particular Emphasis on project of similar magnitude carried out in Oil and Gas Sector)
7. Experience of working in similar terrain and remote areas.
8. HSE policy and implementation procedures in line with internationally accepted practices with statistics for last four years.
9. Quality assurance & Quality control practices currently in place for the execution of similar work/services.

**The interested suppliers should “Evince interest” to participate in EoI within 14(fourteen) days of publication of Expression of Interest.**

**In case of any issue faced by the vendor during the evincing of interest please contact** **Manjushree.Samanta@cairnindia.com** **/ 0120-6664407**