



**Energy for India**  
**CAIRN INDIA LIMITED**  
**CORRIGENDUM**

**Global Expression of Interest (Eoi) for Mechanical, Electrical and Instrumentation Works for Mangala Polymer Project in Rajasthan Block.**

Cairn India Ltd. ("CIL") is the Operator of the Rajasthan onshore block (RJ-ON-90/1) on behalf of its Joint Venture partners, Cairn Energy Hydrocarbons Limited and Oil and Natural Gas Corporation (ONGC) hereby issues the corrigendum to read the title of the above mentioned Eoi published on 15<sup>th</sup> November 2012 as "**Global Expression of Interest (Eoi) for Mechanical, Electrical and Instrumentation Works for Rajasthan Block**".

The bidders are requested to submit their credentials as indicated in detailed Eoi at <http://www.cairnindia.com>.

The envelope containing the pre-qualification documents should be subscribed with the title "**Pre-qualification for Mechanical, Electrical & Instrumentation works for Rajasthan block**" and submitted to the below address within Fourteen (14) days of the publication of this corrigendum.

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**CAIRN INDIA LIMITED**

**Global Expression of Interest (Eoi) for Mechanical, Electrical and Instrumentation Works for Mangala Polymer Project in Rajasthan Block.**

Cairn India Ltd. ("CIL") is the Operator of the Rajasthan onshore block on behalf of its Joint Venture partners, Cairn Energy Hydrocarbons Limited and Oil and Natural Gas Corporation (ONGC), of the Contract Area RJ-ON-90/1 at Barmer in the state of Rajasthan. The RJ-ON-90/1 Block contains a number of major oil fields namely Mangala, Bhagyam, Aishwariya and various other discoveries which would be developed over a period of time. The Global 'Expression of Interest' is sought for Mechanical, Electrical and Instrumentation Works for developments in Rajasthan Block, where Cairn India Ltd (CIL) is the Operator.

CIL on behalf of its joint venture partner's invites interested bidders (Indian and International) with demonstrated HSE performance and proven integration capabilities to express their interest for pre-qualification to participate in an International Competitive Bidding Process (ICB) for Mechanical, Electrical and Instrumentation works. CIL is interested in Long Term Rate contract with defined Service Level Agreement for the provision of services to cover the scope as briefly defined below.

In view of the nature of the scope, only those Companies possessing the requisite and proven record of performance and having average annual turnover of USD 50 Million in last three (3) years should respond to this notice

**Brief Scope of Work:**

The scope of work shall cover Detailed Design, Procurement, Expediting, Inspection, Testing, Construction, Installation, Pre-commissioning, Commissioning and Performance Testing of the Project. Major facilities to be developed under this Project are:

**Well Pad Mechanical:**

The brief scope shall cover the following as minimum to all activities necessary for a successful execution of the contract.

- Installation, testing and commissioning of following major equipments:
  - Piping manifold
  - Instrument air compressor
  - Polymer pumps
  - Injection skids
  - Polymer silos
  - Material handling skids equipment
  - Polymer preparation units
  - Maturation tanks
  - Booster pumps, etc.
- Installation, testing & commissioning of 120 Nos. of polymer dosing pumps skid with capacity ranging from 5 to 8 M3 per hour, and its integration with existing similar units.
- Installation, testing & commissioning of 15 Nos. of Chemical injection skid with capacity ranging from 20 litres per hour, and its integration with existing similar units.
- Piping, Electrical and Instrumentation hook up of new production / injection wells and

all associated civil, structural, mechanical, piping, electrical, instrumentation and control, telecom, F&G and fire fighting works as required.

- Bidder to construct and maintain shop floor facility including machinery, transport, material handling equipment, manpower, NDT, PWHT as required for piping fabrication and erection of Mechanical packages at the well pads and Electrical and Instrumentation fabrication and erection of E&I panels, packages at the well pads.
- The machinery for fabrication shall include welding rectifiers, welding generators, hand tools, etc suitable for undertaking fabrication of 120 inch dia of piping.
- Secondary structural fabrication such as pipe supports, cross-over platforms and access platforms shall form part of the scope.
- Materials required for structural fabrication shall be supplied by the Bidder.
- Bidder Contractor to consider material handling equipment and machinery availability for simultaneous activities in the shop floor and minimum of four (4) well pads at any point in time.
- Consumables including inert shielding gases required for fabrication of CS & SS piping.
- Piping fabrication, welder pre-qualification, NDT, testing, painting, insulation and erection shall be carried out to Company's specifications
- Material segregation shall be demonstrated from stages of material receipt thru manufacturing until final erection. Material traceability and welder traceability shall be demonstrated in the documentation.
- Manpower resources shall comprise of skilled, semi skilled and unskilled manpower as required for fabrication and erection of piping and equipment.
- Trained Welding, QA/QC and HSE personnel shall form part of the manpower team.
- The fabrication and contract management shall be carried out from work site and Contractor shall be responsible for employing dedicated resources for these activities.
- Contractor to employ dedicated independent NDT agency to cover fabrication and erection activities.
- Equipment such as high pressure pumps and accessories including fasteners and gaskets required for Hydrotesting of piping shall be covered under Contractor's scope
- Post erection hydraulic torque tightening of piping shall be included in Contractor's scope
- Automatic blasting booth with grit recovery plant and painting arrangement.
- Insulation supply and application.
- Material handling equipment shall include Crane, trailer and Hydra as required for erection of mechanical packages and piping.
- Provision of trailer transport for movement of materials and machinery.
- Movement of manpower resources within and outside the plant.
- Inventory management and safe keeping of free issued items.
- All utilities such as construction power, water and compressed air.
- Identification of lay down yard requirement for storage of raw material, fabricated items, painting booth and others if any.
- House keeping of the shop and work areas.
- Boarding, lodging, transportation, safety, security of manpower under direct roles and sub contractors employed for the execution of the contract. Company shall not be providing any of the above indicated facility.
- Planning and adherence to Company's project schedule for various well pads.

### **Electrical, Instrumentation & Telecommunication:**

- Installation testing and commissioning of Free-issued electrical items / packages such as E-Room and classified area power & lighting distribution boards, lighting & small power distribution system, Local Control Stations, EHT and CP System equipment
- Laying of 33kV power and control cables including supply of consumables such as stainless steel cable tags, ties, galvanised cable route markers, fire tapes, fire bricks etc. Glanding and termination of cables as required including supply of lugs, ferrules etc.
- Supply and installation of ladder / perforated galvanised cable trays including supply of proprietary unistrut channels & fixing clamps as required
- Supply and installation of MS painted chequered plates as required
- Supply and installation of Instrument Junction boxes (316 SS), SS316 tubes and Tube fittings, SS-316 Instrument air manifolds (5-way, 10-way), cable glands, earthing cables.
- Supply and fabrication of MS painted steel supports such as for Panels, UPS, LCS, Power & Lighting DBs, LCS, EHT and CP System equipment, E&I cable tray supports, terminal ends cable supports, JB supports, Instrument 2" pipe stands, air piping/tubing supports. Materials required for structural fabrication shall be supplied by the Bidder.
- Supply, installation, testing and commissioning of grounding and lightning protection system.
- Supply of high voltage termination kits
- Supply and installation of safety equipment such as rubber mat, portable fire extinguishers, portable fire buckets, caution boards etc.
- Installation of Free-issued Instrument items like transmitters, gauges, Instrument cabling & termination works, Panel/cabinet installation works, Installation of Instrument containerised room
- Pre-commissioning works like continuity checks, loops checks, Impulse tube/pipe leakage checks, air supply pipes/tube leak checks, calibration checks & re-calibration of instruments as required. Calibration set-up, test benches shall be provided by Contractor at site.
- Consumables like lugs, ferrules, JB support/panel support bolts/nuts, Instrument stands supports anchor bolts/nuts etc, Teflon tapes, cable ties, welding gases, Calibration/testing gases etc
- Material segregation shall be demonstrated from stages of material receipt thru manufacturing until final erection. Material traceability and welder traceability shall be demonstrated in the documentation.
- All telecommunication works.

Only those bidders (Indian and International) possessing substantial and proven record in design, engineering, integration, supply and installation of Mechanical, Electrical & Instrumentation works Package of similar scale with demonstrated HSE performance shall submit their Eol along with pre-qualification documents

- A. Letter of interest with detailed company information
- B. Capabilities brochure including details of machinery, manpower and facilities
- C. Lists of similar projects executed in the last five years and those of currently under execution with delivery performance records, job value, client certification, client references etc.( With emphasis of work carried out in Oil and Gas Sector)
- D. Bidder should have average annual turnover of USD 50 Million in last 3 years
- E. Quality assurance/control practices, quality manual and certifications
- F. Health, Safety and Environment (HSE) policies, certifications, procedures and statistics on HSE performance covering the last four (4) years.
- G. Company's financial performance documents (Audited Balance sheets and Profit and Loss statements etc.) for last 3 years

In order to execute the site works contractor should have planning team to support staff & temporary infrastructure along with other construction utilities viz: power, water compressed air, material handling equipments, logistic support for movement of manpower and materials.

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