



WE FUEL AMAZING

CAIRN INDIA LIMITED

(CIN: L11101MH2006PLC163934)

Regd. Office: 1st Floor, Wing "C", Unit No. 103, Wing-2 Corporate Avenue, Chakala, Andheri (East), Mumbai – 400093
Telephone: +91 22 40902613, Facsimile: +91 22 40902633, Website: www.cairnindia.com

**GLOBAL EXPRESSION OF INTEREST (EOI) UNDER INTERNATIONAL COMPETITIVE BIDDING (ICB)
FOR SUPPLY OF VARIOUS PACKAGES (USED / REFURBISHED/ NEW MOTHBALL STACKED EQUIPMENT)
FOR RDG GAS DEVELOPMENT PROJECT**

Cairn India Ltd. ("CIL") is the Operator of the onshore hydrocarbon block RJ-ON-90/1 (the "Block") on behalf of itself and its Joint Venture (JV) partners Cairn Energy Hydrocarbon Limited (CEHL) and Oil and Natural Gas Corporation Limited (ONGC), located in Barmer district, in the state of Rajasthan, India. The Block contains a number of major oil and gas discoveries. Raageshwari Deep Gas (RDG) field is a major gas field, located down south of RJ Block. Gas from RDG field is currently processed at Raageshwari Gas Terminal (RGT) located approx 80 Km from Mangala Processing Terminal (MPT).

CIL on behalf of itself and its joint venture partners invites interested potential experienced suppliers/ manufacturers/ packagers/ owners (Indian and International both) for pre-qualification to participate in International Competitive Bidding Process for Supply of various packages (Used / Re- furbished/ New Mothball stacked equipments) as described below

CIL intends to install Compressor Package Units, Gas Turbine Driven Power Generators, Gas Processing Package, Slug Catcher in upcoming new Gas Processing plant in Rajasthan to process and export the Hydrocarbon Gas

Interested parties shall submit responses for company's evaluation in the following categories:

A. Gas Turbine Driven Centrifugal compressor (Feed Booster Compressor)

Scope includes Supply of gas turbine driven centrifugal Compressor package as per functional specifications and all applicable API standards. The turbine shall have the option to have gas only or dual fuel firing facilities.

Each Gas Compressor package shall be capable to handle a capacity of 60 - 120 MMSCFD of water saturated Natural Gas (No H₂S, CO₂ < 1%) suitable to compress inlet hydrocarbon gas from a minimum of 3.0 barg to ~ 46 barg. and may be provided as complete integrated package, as per Company's requirement, with all scrubbers, coolers (air cooled), piping, instrumentation & control systems, automated valving, machine protection systems and emission monitoring systems

B. Gas Turbine Driven Centrifugal compressor (Export Compressor)

Scope includes Supply of gas turbine driven centrifugal compressor package as per functional specifications and all applicable API standards.

Each Gas compressor package shall be capable to handle a capacity of 30 - 100 MMSCFD of hydrocarbon dew-pointed natural gas (No H₂S, CO₂ < 1%) suitable to compress from a minimum of 40 barg to around 90 barg and may be provided as complete integrated package, as per Company's requirement, with all scrubbers, coolers (air coolers), piping, instrumentation & control systems, automated valving, machine protection systems and emission monitoring systems

C. Gas Turbine Driven Power Generator

Scope includes Supply of Gas Turbine Generator package suitable to deliver power of minimum 6 MW @ alternator terminals.

Each Gas Turbine package shall be supplied as integrated package with Gas Combustor, Gear Unit, Generator/ Alternator, Air Intake and Exhaust System, Control system, automated valving, machine protection systems and emission monitoring systems complete with all auxiliary equipment necessary to make it a safe, operable, and stand-alone unit. GTG package shall also include Waste Heat Recovery system (WHRS) at the outlet of the Turbine Exhaust Gas for heating of Hot Oil.

D. Gas Processing Package

Scope includes supply of Gas Processing package as per functional specifications and all applicable API standards.

Package shall be capable to handle a capacity of 35 - 80 MMSCFD of water saturated Natural Gas (No H₂S, CO₂ < 1%) and shall meet the treated gas specification of HC Gas Dew-Point < - 4 degree C @ 4400 kPa(g) and water content < 4 lb/MMSCF, and Stabilized condensate specification of RVP < 8 psia

Package shall be provided as complete integrated unit including but not limited to all necessary equipment, interconnecting process and auxiliary piping & valves, instrumentation and control system, electrical system, and any other necessary items required for safe and continuous operation of the unit.

E. Slug Catcher

Scope includes Supply of Finger Type Slug Catcher package as per functional specifications and all applicable API standards.

The package shall be capable to handle well fluid - Gas: 120 MMSCFD , Condensate > 10000 BPD, Water > 2000 BPD with arrival pressure of ~ 350 kPag and designed to accommodate minimum slug volume of 500 barrels

The package shall be provided as complete unit including but not limited to all necessary equipment, structures, interconnecting process and auxiliary piping & valves, Safety & Process instrumentation and control system, and any other necessary items required for safe and continuous operation of the package.

Company would be pre-qualifying the vendors for each category based on the responses submitted by interested parties

Specific Pre-Qualification Criteria (Go/No-Go Criteria):

Technical

A. Gas Turbine Driven Centrifugal compressor (Feed Booster Compressor)

Interested party shall own similar package in terms of type of compressor (Centrifugal), driver (Gas Turbine or Gas Turbine with dual fuel firing facility), inlet volumetric capacity (60 - 120 MMSCFD), and similar driver rating corresponding to suction Pr. of 3.0 to 20 barg with minimum compression ratio of 2:1

Package should have an age of < 5 years and should have been operated for < 10000 hours

B. Gas Turbine Driven Centrifugal compressor (Export Compressor)

Interested party shall own similar package in terms of type of compressor (Centrifugal), driver (Gas Turbine), inlet volumetric capacity (30-100 MMSCFD), and similar driver ratings corresponding to suction pressure of 40 to 45 barg with minimum compression ratio of 2:1

Package should have an age of < 5 years and should have been operated for < 10000 hours

C. Gas Turbine Driven Power Generator

Interested party shall own similar package in terms of type of Turbine (Gas Turbine) and Electrical Generator ratings (minimum 6 MW @ alternator terminals)

Package should have an age of < 5 years and should have been operated for < 10000 hours

D. Gas Processing Package

Interested party shall own similar Gas Processing package of minimum 35 MMSCFD capacity. Unit shall consist of Gas Dehydration unit (Glycol based), Dew-Point control system, Refrigeration compressors, Condensate Stabilization unit, and Heating media (Electric or Hot oil package) along with all the associated systems as an integrated unit including all necessary equipment, interconnecting process and auxiliary piping & valves, instrumentation and control system, electrical system, and any other necessary items.

Package should have an age of < 5 years and should have been operated for < 10000 hours

E. Slug Catcher

Interested party shall own similar Finger Type Slug Catcher package of minimum Gas handling capacity of 60 MMSCFD with arrival pressure of minimum 300 kPag and minimum slug volume of 500 barrels. Package shall consist of Inlet distributor, Fingers, Liquid leg for liquid separation, and Sand/ Solid particle filters for Produced water along with all associated systems as an integrated package including all necessary equipment, structures, interconnecting process and auxiliary piping & valves, Safety & Process instrumentation and control system, and any other necessary items.

Package should have an age of < 5 years and should have been operated for < 10000 hours

Documents to be furnished in the Proposal for Pre-Qualification

The interested parties are requested, as a minimum, to submit the following documents and details individually for each of the category:

1. Letter of interest from interested party on their Letter Head.
2. Details of similar Packages (as per categories specified above) available with interested party in format attached herewith – Refer Annexure-1. Also, provide OEM certifications, Equipment Drawings, history of usage for these packages
3. Interested party should indicate a delivery period (delivery at site) for supply of such packages.
4. Procedures/ Systems for subcontractors & vendors evaluation and appointment
5. Reference to demonstrate knowledge & capability of requirement.

EOI submission shall be complete with the above requested information.

The interested parties 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 India website and submit their contact details online. Further to this, interested parties would be invited to submit their response via Smart Source (Cairn’s e-Sourcing Platform). The interested parties would be requested, as a minimum, to submit the above documents and details for prequalification via Smart Source within twenty one (21) days of date of publication of Expression of Interest.