



WE FUEL AMAZING

**CAIRN INDIA LIMITED**

**GLOBAL EXPRESSION OF INTEREST (EOI) FOR DESIGN, MANUFACTURING, SUPPLY, SUPERVISION FOR INSTALLATION AND COMMISSIONING OF GAS DEHYDRATION PACKAGE, GAS-GAS EXCHANGER AND REFRIGERATION/CHILLER PACKAGE**

Cairn India Limited (CIL) is the Operator on behalf of Joint Venture partners CEHL and Oil and Natural Gas Corporation, of the Contract Area RJ-ON-90/1 at Barmer in the state of Rajasthan, India. The RJ-ON-90/1 Block contains northern oil discoveries namely Mangala, Bhagyam, and Aishwarya. Raageshwari gas terminal (RGT) is deep gas processing terminal and located at around 80 Km from Mangala processing terminal (MPT).

CIL seeks Expression of Interest under International Competitive Bidding Process from potential experienced manufacturers (Indian and International both) with proven track record of delivery who wish to receive invitation to tender for Supply of Gas Dehydration Package (GDU), Gas-Gas Exchanger (GGE) & Refrigeration/ Chiller Package.

**Gas Dehydration Unit (GDU):**

The GDU shall be complete in all respect to a handle Natural Gas capacity of 33 MMSCFD at around 44bar (g) pressure & 50°C temp. and shall meet the outlet gas specification having water content < 7 lb/MMCSF. The unit shall be including but not limited to Glycol system, Auxiliaries, Control System, Process and Auxiliary piping & valves inside the package, all field instrumentations, electrical and control panels and any other necessary Items required for safe and continuous operation of the unit.

**Gas-Gas Exchanger (GGE):**

The GGE shall be complete in all respect to handle around 33 MMSCFD of process Natural Gas. The GGE shall be Shell & Tube type with process gas in the tube side and treated dew pointed gas in the shell side and shall be able to meet the heat exchange load of 925KW. The GGE shall be including but not limited to tube bundle, test ring test flanges, any special accessories required for maintenance and operation, and any other necessary items required for safe and continuous operation of the unit.

Supplier can also consider option of 2 parallel shell (2 x 50%) configuration. Bidder to consider LTCS as the MOC with 600# flanges.

**Chiller/ Refrigeration Package:**

The Chiller/ Refrigeration package has to be installed in the downstream of Gas-Gas exchanger and parallel to the existing Propane refrigeration / Chiller package to share the load to achieve outlet gas specification of < (-) 3°C Gas Dew point @ 44 barg pressure having water content < 7 lb/MMCSF. The Chiller/ Refrigeration package shall be complete in all respect to a handle Natural Gas capacity of 33 MMSCFD at around 44 barg. Propane shall be considered as base refrigerant case. Alternate refrigerant can be suggested by the bidder as alternate option. The total C3R capacity shall be around 484 KW).

The unit shall be including but not limited to Refrigerant compressor, Oil separators, Air cooled condenser, Thermosyphon vessel, Refrigerant receiver, Chiller, Auxiliaries, Control System, process and auxiliary piping inside the package, all field instrumentations, electrical and control panels and any other necessary items required for safe and continuous operation of the unit. Supplier shall consider Propane Mixture as base case and can offer alternate options. The Compressor Driver shall be Liquid condensate engine as base case with Electric Motor for Zone-2, IIA/IIB, T3 as an alternate option. Condenser shall be considered Air cooled as base case with water cooled as alternate option.

If Supplier is in a position to offer readily available off-the-shelf item within the above mentioned capacities & operating condition, Supplier may propose the same along with the EOI. Vendor can submit EOI for Individual packages also.

**Only those Companies/consortium meeting the following criteria as a minimum should respond to the EOI:**

The Gas Dehydration Unit (GDU):

- a. Positive net-worth of at least USD Six Hundred Thousand (\$ 600,000) in each of the immediately preceding two financial years.
- b. Annual average turnover in each of the immediately preceding two financial years should be USD Six Million (\$ 6,000,000).
- c. Liquidity ratio in each of the preceding two financial years shall not be less than 0.75.
- d. Should have experience in two projects during the last 3 years providing similar types, which includes either off-the Shelf or Designed and Manufactured units.

For Chiller Unit and Gas - Gas Exchanger

- a. Positive net-worth of at least USD Six Hundred Thousand (\$ 600,000) in each of the immediately preceding two financial years.
- b. Annual average turnover in each of the immediately preceding two financial years should be USD Six Million (\$ 6,000,000).
- c. Liquidity ratio in each of the preceding two financial years shall not be less than 0.75.
- d. Should have experience in two projects during the last 3 years providing similar types, which includes either off-the Shelf or Designed and Manufactured units.

**Companies are requested, as a minimum, to submit the following documents and details:**

1. Letter of interest along with company/consortium information detailing their nominated management, staff, and business process support to carry out a multi-year, major services campaign for all types of operating facilities.
2. Company's Turnover mentioning on company letter head with supporting documents including audited reports.
3. Lists of similar work successfully executed in the last five years and similar projects/agreements currently under execution along with copies of work orders (With particular emphasis on work carried out with Oil and Gas Operators). Completion certificates/ Feedback certificates along with contact details from the earlier projects shall be provided by the bidders.
4. List of current contracts of similar nature with contact details.
5. List of similar projects in oil & gas with Indian customers.
6. Contractor shall showcase its capability & infrastructure by providing details such as project execution & management/ Planning and scheduling methodology, Technical/ Managerial resources availability, Engg. Software/ Technical support availability, Fabrication & Testing capability and capacities along with Procurement capability, Spare capacity and ability to supply within the project schedule based upon current shop floor loading, Supply base in India / Asia / Middle East to extend prompt after sales support etc.
7. List of policies, procedures and quality assurance practices currently in place for the execution of similar work.
8. Health, Safety and Environment (HSE) policies, procedures and statistics covering the last 3 years.
9. Contractor's adherence to legal statutory requirement & corporate financial details for last 3 years.
10. Copies of ISO certifications for ISO 9001, ISO 14001, BS OHSAS 18001 etc.
11. No. of ongoing litigation for last 5 Years
12. LTI track record for last 5 Years.

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 India website and submit their contact details online. Further to this, interested suppliers would be invited to submit their response via Smart Source (Cairn's e Sourcing Platform). The suppliers would be requested, as a minimum, to submit the following documents and details for prequalification via Smart Source

The interested suppliers should evince interest to participate in Eoi within 14 days of publication of Expression of Interest.