



EXPRESSION OF INTEREST (EOI) FOR OPERATION & MAINTENANCE SUPPORT SERVICES FOR WATER PLANTS / SYSTEMS INSTALLED AT MPT & RGT, BARMER, RAJASTHAN

Cairn India Ltd. ["CIL"], the Operator of the Onshore RJ-ON-90/1 block with its Joint Venture (JV) partners Cairn Energy Hydrocarbons Limited (CEHL) and Oil and Natural Gas Corporation Limited (ONGC), located in Barmer district, in the state of Rajasthan, India, intend to award contract for operation & maintenance support services for water plants / systems installed at MPT& RGT for 3 years to interested competent party. The Block contains number of major oil discoveries, including Mangala, Bhagyam, Aishwariya and Southern fields including Raageshwari Gas Terminal (RGT).

CIL on behalf of itself and its joint venture partner's invites interested contractors with proven capabilities and demonstrated HSE performance to express their interest for pre-qualification to participate in the bidding process to perform operation & maintenance support services for water plants / systems installed at MPT & RGT, Barmer, Rajasthan for 3 years in line with best industrial practices and standards.

Bidders who meet following criteria shall be considered.

COMMERCIAL:-

- ❖ Annual Turnover in each of the immediately preceding two (2) financial years should be 2 times the Average Annual Contract Value.
- ❖ Positive Net worth of at least 20% of Annual Contract value in each of the immediately preceding two (2) financial years.
- ❖ Liquidity ratio in each of the preceding two (2) financial years shall not be less than 0.75.

Bidders are requested to submit their financial performance documents (Audited balance sheets and Profit & Loss statements) for last 2 preceding years i.e. FY -13 & FY-14.

TECHNICAL:-

Contractor shall have a minimum of 05 (five) years' experience in water plants, various types of filtration units, condensate polishing units in the field of Oil & gas processing, Petrochemical, and Refinery, Steam generation & Power plants and Utilities system. Contractor should have supplied skilled technical manpower to reputed well known industries since last three years.

The brief scope of work of the Contractor under this service order is to Skilled/semi-skilled manpower support to carry out but not limited to routine water plant/systems operations and maintenance activities in it's below mentioned areas

- a. Raw Water Filter Package
- b. Wipro Desalination Plant (Pass-I & II)
- c. RO Augmentation Plant.
- d. Filter Package
- e. Condensate Polishing Unit (CPU)
- f. Construction RO Plant
- g. MS-1 water injection well Pad.

The scope of work for this EOI is limited to works within the

1. Mangala Processing Terminal, Mangala well pads and NR1 water field (24 kms from Mangala Processing terminal).
2. Raageshwari Gas Terminal.

The work scope broadly consists of the following:

1. WORK SCOPE SPLIT

The contractor shall provide operation support man power services for the above mentioned process plants, but not limited to these areas.

Process Description -MPT

Mangala Process Terminal (MPT) receives raw water from the Thumbli water wells. Most of the water is filtered and stored before passing to a desalination plant. The first stage of the desalination plant provides treated water that is stored and further treated to become potable water. The potable water is stored and distributed to end users as required. Within the second stage of the desalination plant, demineralised water is produced. This demineralised water is sent to the boiler feed water make-up tank, CPU tank, Turbine cold well and boiler initial filling.

Demineralised water is supplied from the Desalination Package as feed water and is stored under a nitrogen blanket in Boiler Feed Water Make-up Tanks. Condensate from the Hot Condensate, recycle line, air cooled condenser packages and various other sources are also returned to these tanks.

Condensate Polisher Package installed to reduce the silica content and conductivity of the condensate. Through five Deaerator, any residual gases, typically oxygen and carbon dioxide are removed. Eight Boiler Feed Water Pumps route the treated feed water to five Steam Boiler Packages.

- MPT complex houses 7 high pressure boilers each having capacity of 115 MT/hour operating at a pressure of 42 kg/cm².
- Feed water make up is constituted by recycled turbine condensates and balance make up is by fresh DM water.

The heating and power requirements for MPT are very demanding so a steam-based heating and power system is provided to meet these needs. The steam distribution system consists of high pressure (HP), medium pressure (MP) and low pressure (LP) networks. Three levels of steam are provided; HP steam nominally at 600 psig and 370°C, MP steam nominally at 100 psig and 180°C and LP steam nominally at 58 psig and 177°C.

A more detailed description of the overall system will be provided in Scope of work.

Process Description -RGT

Raageshwari gas Terminal (RGT) receives raw water from the bore wells. The water is filtered and treated in ASF + UF system and stored in the Fire water /Utility water storage tanks and Living quarters. In addition to that the water is being used for green belt area in RGT.

The following systems /equipment's are being used:

- Bowell pump for raw Water
- Primary Pre-treatment Plant
- Reverse Osmosis Based Treatment Plant
- Boron Exchanger
- Permeate water Storage Tank

Bidders are requested to submit the following pre-qualification documents as a minimum

- ❖ Letter of interest clearly indicating the project reference
- ❖ Detail 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.
- ❖ Details of completion of similar type of projects in the last five years under heading:
 - a) Brief scope of work
 - b) Value of work in INR
 - c) Contractual Duration
 - d) Actual completion of Project
 - e) Clients name
 - f) Contact details of the Client ((CIL may approach the client directly for the feedback)
 - g) Safety certification / Inspection of plant and machineries
 - h) HSE statistics, LTI graph etc.
- ❖ Typical Project planning and Execution methodology
- ❖ Past Track record of similar works executed list with Work order, P.O Copies or LOI copies and Client completion certificates.

- ❖ Details of current commitments - 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)
- ❖ Experience of working in similar terrain.
- ❖ HSE policy and implementation procedures in line with internationally accepted practices with statistics for last four years,
- ❖ Quality assurance & quality control practices currently in place for the execution of similar work.
- ❖ Company's financial performance documents (Audited Balance sheets and Profit and Loss statements etc.) for last three years.
- ❖ Company registration details, Pan card, Service tax CST / VAT, details.
- ❖ Documents in support of Health, Safety,
- ❖ Environment & Quality [HSEQ] performance
- ❖ Copies of ISO 9001, 14001, OHSAS 18001 or any other certification as applicable.

Interested bidders 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 i.e. <http://www.cairnindia.com> and submit their contact details online. Further to this, interested bidders would be invited to submit their response along with pre-qualification documents via *Smart Source* [Cairn's e Sourcing Platform].

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