



Energy for India

CAIRN ENERGY INDIA PTY LIMITED

(Incorporated in New South Wales, Australia - ACN 002 066 784)

EXPRESSION OF INTEREST / PRE-QUALIFICATION FOR GENERAL ENGINEERING SERVICES CONTRACT FOR ALL ASSETS OF CAIRN ENERGY INDIA PTY. LTD.

The 'Expression of Interest' is sought for the three operating assets of the Company and any future developments, discoveries and assets, where Cairn Energy India Pty Ltd (CEIL) will be the Operator. The currently producing assets are:-

- RJ-ON-90/1 block is located in the State of Rajasthan, India, where Cairn Energy India Pty Ltd ('CEIL') is the Operator, on behalf of the Joint Venture Partners Cairn Energy Hydrocarbons Limited and ONGC. Subsequent to the several successful oil and gas discoveries in the area, CEIL is in the process of development of the Mangala, Bhagyam and Aishwariya oil fields, Thumbli water fields, and the Raageshwari gas fields. The production has already commenced in 2009. The Mangala Processing Terminal processes the crude oil and transports the oil to the Gujarat coast via a 670 Km long 24" diameter pipeline. The Raageshwari Terminal processes the gas and the accompanying condensate for transporting to the Mangala Processing Terminal (MPT) / Export Pipeline.
- CB/OS-2 block is located on the west coast of India where Cairn Energy India Pty Ltd (CEIL) is the operator, on behalf of the Joint Venture Partners CEIL, ONGC, and Tata Petrodyne Ltd. Oil and gas produced from three offshore platforms is transported to the onshore processing terminal situated at Suvali, Hazira, near Surat, via a 35 km long 24 " diameter pipeline.
- Ravva is located in the east coast of India in the state of Andhra Pradesh where Cairn Energy India Pty Ltd. (CEIL) is the operator of the offshore field on behalf of the Joint Venture Partners ONGC, Videocon and Ravva Oil, Singapore.. The offshore facilities consist of eight well head platforms, production, injection fluid pipelines and SBM system for crude loading. The processing plant is located at Surasaniyanam, one km from the coast, to treat produced well fluids, injection water and to transport crude and gas.

CEIL seeks Expression of Interest under the Competitive Bidding Process from reputed engineering contractors with experience across designing a wide range of oil and gas facilities including well heads, well pads, pipelines, gathering systems and stations, process plants, terminals etc. The main intent is to place one or more umbrella contracts for carrying out the call out engineering services for CEIL.

The range of services required covers a very broad spectrum from specialist technical studies through to detail engineering. Hence, contractors with wide ranging capability are preferred. Cairn may select more than one Contractor to provide redundancy and to ensure that the full spectrum of services is provided. In the event that more than one contractor is selected, work parcels will be allocated to suit the capabilities and key skill sets of the contractors and the availability of resources. Therefore, Contractors who are not able to supply the complete range of services mentioned in this document should submit a tender indicating the types of work for which they have experience and capability.

Based on technical bids received, bidders will be allocated as either Tier 1 or Tier 2 contractors.

The key requirements of Tier 1 and Tier 2 contractors are as follows:-

Tier 1 Contactor

- Demonstrate experience across a wide range of engineering services from conceptual studies specialist studies, process selection / screening studies, high level consulting services, FEED, debottlenecking and optimisation studies and detailed engineering.
- Demonstrate experience across a wide range of oil and gas facilities including pipelines, gathering systems and stations, process plants, terminals etc.
- Demonstrated large number of resources in all engineering and support disciplines.
- Demonstrated large process engineering resource base (a minimum of 40-50 personnel), with sound experience and knowledge at all working levels in the department.
- Demonstrated experience in provision of procurement services including preparation of technical bid evaluation, RFQ, MR, vendor document review, vendor evaluation etc.
- Demonstrated process capabilities in steady state simulations, equipment and instrument sizing and preparation of specifications etc.
- Demonstrated experience and expertise for specialist studies including corrosion study, flow assurance studies, dynamic simulations, material selection studies, chemical injection studies, energy optimisation studies, pinch analysis for the heat exchangers etc.

Tier 2 Contactor

- Demonstrate experience in a range of engineering services including the FEED and detailed engineering services.
- Demonstrate experience across a range of oil and gas facilities including pipelines, gathering systems and stations, process plants, terminals etc.
- Demonstrate process capabilities in steady state simulations, equipment and instrument sizing and preparation of specifications etc.
- Demonstrate experience in provision of procurement services including preparation of technical bid evaluation, RFQ, MR, vendor document review, vendor evaluation etc.

In brief, the scope of work shall include:

- Preparation of basic engineering design package
- Concept screening studies
- Concept studies
- Technical studies
- Debottlenecking and optimisation studies,
- Pipeline flow assurance, (including dynamic modeling of pipelines)
- Corrosion studies/ material selection studies,
- Energy optimisation studies
- Steam and Power studies
- Techno commercial and feasibility studies for a range of design and technology options
- Process plant simulations
- FEED / Basic engineering,
- Detailed engineering assignments for plant and pipelines
- Availability and reliability analysis
- Conceptual design
- Facilities layout
- Civil and flood water control design
- Technical input to procurement process (RFQ/MR, VDR and TBE preparation).
- Site visits
- Commissioning and test run planning and supervision
- Construction engineering assistance.
- To participate and technically support in technical safety studies HAZOP, HAZID, SIL analysis / studies, EIA etc.

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

- Letter of interest with detailed company information. Number of current personnel on discipline basis as well as the CV's of the key nominated personnel for all disciplines who would be assigned to this work. Also details of support agencies and other facilities and resources.
- Details of software available, management of change systems, project controls systems and procedures, quality systems etc. List of policies, procedures and quality assurance practices currently in place for the execution of similar work.
- Reference list of relevant facilities experience for onshore and offshore oil and gas projects including processing facilities, pipelines, terminals, gathering systems / field production, brown field/ green field.
- Financial performance documents (Audited Balance sheets and Profit and Loss statements etc.) with details of turnover for last three (3) years

All information and documentation should be provided at address below within 10 days of publication of this EoI by e-mail as attached PDF file and via courier to:

Director - Procurement & Supply Chain Management
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