



Energy for India

CAIRN ENERGY INDIA PTY LIMITED

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

**GLOBAL EXPRESSION OF INTEREST (EOI) FOR DETAILED
ENGINEERING FOR BHAGYAM & AISHWARIYA FIELD
DEVELOPMENT AND MANGALA PROCESSING TERMINAL
CAPACITY EXPANSION PROJECT**

Cairn Energy India Pty Ltd. ("CEIL") is the Operator on behalf of Joint Venture partners CEIL, Cairn Energy Hydrocarbons Limited 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 a number of major oil discoveries namely Mangala, Bhagyam, Aishwariya & other fields. The Mangala field is the largest onshore oil discovery in India since 1985. The Mangala field development consists of well pad facilities and processing hub named Mangala Processing Terminal (MPT) which is currently under implementation.

It is now proposed to develop two satellite fields viz. Bhagyam and Aishwariya and expand the processing capacity of MPT by adding one processing train with associated facilities.

CEIL on behalf of its joint venture partners invites International (including Indian) reputed Engineering Consultant with demonstrated HSE performance to express their interest to participate in an International competitive bidding process for Detailed Engineering of either of PROJECT-1 (Bhagyam & Aishwariya Field Development Project) and PROJECT-2 (MPT Capacity Expansion Project) or both the projects as per requirement stated below.

PROJECT-1: BHAGYAM & AISHWARIYA FIELD DEVELOPMENT

Bhagyam and Aishwariya field development project broadly consists of

- Wellpad facilities
- Associated Civil, Piping and Electrical & Instrumentation work
- In field pipelines for production fluid, power fluid and injection water
- 33 KV over head line (OHL) and Fibre Optic Cable (FOC)
- In Field Roads

PROJECT-2: MPT CAPACITY EXPANSION PROJECT

MPT capacity expansion Project consists of:

- Installation of process train of 75000 BOPD for oil processing consisting of Slug Catcher, Production Fluid Heater, Production Separator, Settling tank, Dehydrator and associated facilities.
- Tie in and seamless integration with current MPT facilities.
- Oil storage and metering facilities.
- Gas handling facilities.
- Produced water treatment, water injection and power fluid handling facilities.
- Power generation and steam generation facilities.
- Expansion of Integrated Control System (ICS).
- Associated Piping, Mechanical, Electrical and Civil work.

The Scope of Detail Design activity and qualification requirement are as below:

	Bhagyam and Aishwariya Field Development Project	MPT Capacity Expansion Project
Scope of Work	The Scope cover flow assurance, transient analysis, dynamic analysis, HAZOP/HAZID, P&IDs, Pipeline alignment sheets, civil/electrical/mechanical/ instrumentation design, RFQ, TBA, VDR, Scope preparation for construction contract, Pre-commissioning/ commissioning procedure , Field engineering & other technical support	The Scope covers inheriting recommendation of process optimisation study, P & IDs, HAZOP / HAZID /SIL studies, integration with existing PDS model, civil/ electrical / mechanical/ instrumentation design, procurement support, RFQ, TBA, VDR, Scope preparation for construction contract, Pre-commissioning/ commissioning procedure , Field engineering & other technical support
Specific Qualification Requirement	Completed Detail Design/Engineering of three (3) projects each under category A & B consisting of : A) Infield multiphase flow line/pipeline job (as per ASME B 31.4) with flow assurance and transient analysis having minimum of 30000 Engineering Man-hour. And B) Group Gathering or Collection Station / facilities covering multi-disciplinary works viz: Process, mechanical, piping, PDS Modelling, electrical, instrumentation, Civil etc having minimum of 20000 Engineering Man-hour.	Completed Detail Design/Engineering of three (3) brown / green field Onshore Oil & Gas Processing Plant / Terminal / Refinery consisting of composite multi-disciplinary works viz: Process, mechanical, piping, PDS modelling, electrical, instrumentation, civil etc having 60000 Engineering Man-hour each.

In view of the nature of the scope, only those Companies possessing the requisite and proven record of performance in executing similar jobs of this magnitude should respond to this notice. Companies are requested, as a minimum, to submit the following documents and details for prequalification:

1. Letter of interest clearly indicating the Project reference for which the Expression of Interest is submitted.
2. Detail Company Information with Organisation structure, List of manpower, Support agencies and other facilities & resources.
3. Details of completed detail design projects against "Specific Qualification Requirement" requested above under headings:
 - a) Nature of Job (Brief scope of work) b) Value of work in US\$ c) Completed Man-hours d) Contractual Duration e) Actual completion of Project f) Clients name g) Contact details of the Client (CEIL may approach the client directly for the feedback)

4. List of job demonstrating the capability of Level III integrated schedule & cost estimate through PMC role with details under similar headings as stated at Sr No3.
5. List of all job under execution with the value of the Job and percentage completion.
6. List of Detail Design project/s which was completed following the various Indian Regulation, Law & Standards.
7. List of projects demonstrating the experience in developing a Tender document for single/multiple construction packages.
8. HSE policy and implementation procedures in line with internationally accepted practices with statistics for last four years.
9. Quality assurance & Quality control practices currently in place for the execution of similar work.
10. Company's financial performance documents (Audited Balance sheets and Profit and Loss statements etc.) for last 3 years.

CEIL requests interested Engineering consultant to submit their Expression of Interest along the requested details within 14 days of publication of this EOI.

General Manager - Contracts

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