



WE FUEL AMAZING

(Incorporated in Mumbai, India – U11101MH2006PLC163934)

(INTERNATIONAL COMPETITIVE BIDDING)

GLOBAL EXPRESSION OF INTEREST (EoI) FOR SUPPLY OF BACKWASH WATER TREATMENT PACKAGE FOR RAJASTHAN BLOCK

Cairn India Ltd (“CIL”) is the Operator of the Onshore RJ-ON-90/1 block, on behalf of itself and 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. The Block contains number of major oil discoveries, including the Mangala, Bhagyam and Aishwariya Fields and various other discoveries which would be developed over a period of time. The ‘Expression of Interest’ is sought for developments in Rajasthan Block, where Cairn India Ltd (“CIL”) is the Operator.

CIL on behalf of itself and its joint venture partner’s invites Expression of Interest under International Competitive Bidding Process (“ICB”) from potential experienced manufacturers (Indian and International both) with proven track record of delivery who wish to receive invitation to tender for Supply of Backwash Water Treatment Package. .

The backwash treatment package would be installed at Mangala Processing Terminal backwash pit to achieve the required specifications. The backwash is coming from 8 walnut shell filters (oily) and few non oily filters. The design shall cater to the following requirements:

Inlet Parameters for oily stream:

- Design Flow rate: 12075 BWPD (80 m³/hr)
- Oil in Water: 10000 ppm (Peak inlet of 15000 ppm)
- TSS : 4000 ppm (Peak inlet of 6500 ppm)
- Oxygen content : < 10 ppb
- Other Contaminants: Schmoos, FeS, Polymer / Back produced Polymer
- Inlet Temperature: 75 - 90 deg C
- Design Temperature: 120 deg C

Inlet Parameters for non- oily stream:

- Design Flow rate: 15095 BWPD (100 m³/hr)
- TSS : 100 ppm
- Dissolved Oxygen : High (The liquid is coming from an open recharge pit)
- Inlet Temperature : 40 - 45 deg C
- Design temp: 80 deg C

Outlet Parameters: oily streams

- Outlet Oil in Water : <10 ppm
- Outlet Total Suspended Solids : < 10ppm
- pH: 6.5-8.5
- Outlet Oxygen content : < 10 ppb
- Bacterial Count: Nil
- Net recovery: min 90%

Outlet Parameters: Non oily streams

- Outlet Total Suspended Solids : < 10ppm
- Outlet Oxygen content : < 10 ppb
- Bacterial Count: Nil
- Net recovery: min 95%

General Parameters:

- Design Pressure/ Temp of the oily chain: 8 barg / 120 deg C
- Operating Pressure/ temp of the oily chain – 3 bar / 65 deg C
- Dry Oil Viscosity @ 70⁰ C :19.5 cP
- Dry Oil Viscosity @ 90⁰ C :10.43 cP

The reject water treatment package may have single-stage or multi-stage treatment skids for treatment of OIW & TSS of Oily and Non-oily streams. The equipment shall be designed for continuous operation with adequate sparing philosophy. All units shall be mounted on a self contained skid with all necessary piping, valves, SDV's, change over valves, control valves, pumps with motors etc. if required. Standby treatment unit of same capacity (as operating treatment unit) shall be provided in case any operating unit is envisaged to be taken out of service / offline for backwash/ regeneration or any similar or other purpose.

The scope of supply shall include, but not be limited to:

- Basic and detailed engineering, procurement and supply of material, fabrication and assembly, shop testing, inspection, painting, marking, preservation/ protection, supervision, transportation.
- Its shall also include priming, internal coating, insulation, testing and delivery of the package required for treating filter backwash water to remove the Oil and TSS to the desired specifications.
- Equipment/Skid/Package supplied should be able to handle slug quantity.
- All the associated on-skid valves, piping specialty items, control valves, relief valves, interconnect instrument tubing and valves, Controls and instrumentation (including free standing control panel, skid mounted motor local control stations etc.), on-skid electrical wiring and cabling and other engineering items to be supplied along with skid.
- Supervision of Installation and Commissioning of the unit at Site.

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

- a. Positive net-worth of at least 20% of the Estimated Contract Value in each of the immediately preceding two financial years.
- b. Annual turnover in each of the immediately preceding two financial years should be twice the Estimated Contract Value.
- c. Liquidity ratio in each of the preceding two financial years 0.75
- d. Bidder should have relevant experience in supplying Oil and TSS removal unit for Wastewater Treatment in Oil and Gas Industries for a period of 05 (Five) years. Bidder should have handled cumulative volume of Oily and Non Oily reject upto 12,000 bwpd or above.

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. Indicative delivery schedule and indicative foot prints of the package.
8. List of policies, procedures and quality assurance practices currently in place for the execution of similar work.
9. Health, Safety and Environment (HSE) policies, procedures and statistics covering the last 3 years.
10. Contractor's adherence to legal statutory requirement & corporate financial details for last 3 years.
11. Copies of ISO certifications for ISO 9001, ISO 14001, BS OHSAS 18001 etc.
12. No. of ongoing litigation for last 5 Years

13. 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 Eol 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 Eol within 14 days of publication of Expression of Interest