



**INVITATION FOR PRE-QUALIFICATION OF BIDDERS
FOR PROCESS AND UTILITY FACILITIES AT TOP SIDE AND
INSIDE CAVERN ON EPCC BASIS FOR STRATEGIC STORAGE OF
CRUDE OIL PROJECT OF M/S ISPRL AT PADUR,
KARNATAKA, INDIA
(PQ DOCUMENT NO.: 6979/PQ-107/09-10/RKS/04)**

(INTERNATIONAL COMPETITIVE BIDDING)

1.0 NAME OF WORK:

Process and Utility Facilities at Top Side and Inside Cavern, for Crude Oil Strategic Storage Project, at Padur, Karnataka (Part-C) on EPCC basis.

2.0 GENERAL:

Indian Strategic Petroleum Reserves Limited (ISPRL) proposes to construct underground-unlined rock cavern storage for imported crude oil at PADUR for approximately 2.5 MMT. Engineers India Limited (EIL) is the Project Management Consultant for the above works.

The storage facility shall consist of two separate storage units for storage of two types of crude in a ratio of approximately 75:25. The caverns shall be approximately 700 m length, 20m wide with a maximum height of around 30m and shall have an approximate 'D' shaped cross-section with a horizontal roof level maintained throughout the cavern length. At least one shaft shall be provided for each storage cavern.

Storage Unit A is for storage of approx. 1.875 MMT crude and Storage Unit B for storage of approx. 0.625 MMT of crude oil. Storage Unit A will comprise six cavern legs and Storage Unit B will comprise two cavern legs. Unit A shall be subdivided into three units comprising of 2 legs in each unit. Each unit will comprise of one main shaft for pumps and instruments and one inlet shaft. For Unit B, intake will be in inlet shaft and another shaft for pump and instrumentation shall be provided.

Crude oil from the Mangalore cavern shall be pumped through a pipe line from Mangalore cavern to Valve station and from valve station to Padur cavern.

The total work is proposed to be carried out in four parts, Part-A, Part B, Part-C and Part-D. Part-A and Part B shall consist of civil works for underground rock caverns, underground hot oil circulation pipes and shaft piping. Part D shall consist of laying and commissioning of Pipeline from the Valve station located approximately 40 kms from Padur caverns .

Part-C shall consist of above ground facilities including all shaft instrumentation submersible pumps etc. The scheduled completion time for Part C i.e. Process and Utility Facilities at Top Side and Inside Cavern for Crude Oil Strategic Storage Project at PADUR, Karnataka (Part-C) **is 26 months for mechanical completion and pre commissioning plus three months for commissioning and performance guarantee.**

Detailed engineering, preparation of working procedures, construction drawings, Procurement, Construction, Installation, Pre-commissioning, Commissioning and Performance test for the Part –C works shall be carried out by the Contractor.

Engineers India Limited (EIL), New Delhi on behalf of ISPRL, invites bids for Pre-qualification of bidders, for Engineering, Procurement, Construction & Pre-commissioning/ Commissioning (EPCC) of Process and Utility Facilities at Top Side and Inside Cavern at Padur, Karnataka,(Part-C) including all performance tests, from the technically and financially sound agencies, meeting the requirements as specified in the Pre-Qualification Booklet/Document.

3.0 **SCOPE OF WORK:**

3.1 The scope of work shall comprise of the following

- I. Project management,
- II. Residual basic design, Detail engineering and HAZOP study.
- III. Procurement, Inspection & Construction
- IV. Pre commissioning ,Commissioning & performance test
- V. Obtaining of Statutory approvals.
- VI. **Top Side of Cavern Process Facilities and Utilities**
 - Liquid N₂ Storage and vaporizer
 - Crude Heating System and heat exchanger
 - Water Softening, Boiler System and steam generation
 - Service Water System
 - Potable Water System
 - Fire water networks with pumps and tanks
 - Drainage and sewerage system
 - Effluent Treatment Plant
 - LPG storage and vaporizer
 - Crude metering system
 - Flare and blow down
 - Electrical system including receiving facilities, substation, electrical distribution system, transformer panels cables etc
 - Instrumentation including supply of instruments cables etc
 - Control and Safety System(ESD, DCS, Fire and Gas Detection System)
 - Level & temperature transmitters in cavern
 - CCTV System
 - Telephone system
 - Provision for extending telephone connections of Padur cavern to Mangalore Cavern.
 - Public Address System
 - Instrument and Plant Air System generation and storage system
 - Crude despatch facility consisting of submersible crude pumps and booster pumps
 - Diesel generator set.
 - Seepage water pump
- VII. **Top Side Buildings & Other Works**
 - Site grading, Fencing, Gates, Roads, Culverts, Slope stabilization etc
 - Plant and non plant buildings, Pump house, watch towers etc
 - Area lighting and building lighting.
 - HVAC, Pressurization systems
 - Irrigation system of treated seepage water.

- Pipe racks/pipe sleepers
- RCC cable trenches
- Shaft top RCC slab, structural support and grating.

VIII. Inside Cavern Shaft Facilities

- Installation of Submersible crude oil pumps
- Installation of submersible seepage water pumps,
- Installation of Instruments like Level Transmitter, Temperature transmitter etc,
- Design of Support of caisson of pumps
- Coordination with Part A and Part B Contractors for supporting of pumps, Testing of caverns, inertisation of caverns etc.

3.2 The above ground work Contractor (Part-C) shall interface with the underground Contractor (Part-A and Part-B) for cavern tightness testing, Inertisation of cavern, installation of strapping tables and coordination for volume measurement.

3.3 Co-ordination with Part-D Contractor for commissioning of pipeline.

4.0 DEFINITIONS

The "Bidder" shall mean either

- EPCC Contractor in individual capacity.
- OR**
- A Consortium comprising of an EPCC Contractor as a leader of Consortium.

5.0 PRE-QUALIFICATION CRITERIA:

Bidder seeking pre-qualification shall meet the following minimum pre-qualification criteria:

5.1 Technical Criteria

5.1.1 In case of Single Bidder

a) The bidder shall have successfully executed through EPCC route and as EPCC Contractor, either as a single bidder or as a leader of a consortium, a contract involving project management, residual basic engineering, detailed engineering including design, supply, construction, pre-commissioning, commissioning, testing for performance guarantee for any of the following process units / facilities:

- Grass-Root process unit handling hydrocarbon.
- Grass-Root process unit handling Ammonia/Urea in fertilizer plant.
- Pipeline Terminal handling hydrocarbon.
- Petroleum, Oil and Lubrication (POL) Terminal or Depots or installation of central tank farm.
- Utilities and offsites, for process plants handling hydrocarbon. (Experience in plant/non plant buildings only will not be considered).

b) In case the bidder does not possess requisite experience in residual basic and detailed engineering, subcontracting for the same will be acceptable. If the bidder exclusively engages an engineering subcontractor for residual basic and detailed engineering, the engineering sub contractor shall meet the qualifying criteria for residual basic and detailed engineering as referred at clause **5.1.1(a)** in individual

capacity. The engineering subcontractor shall prepare all residual basic engineering and detailed engineering documents and drawings. The bidder, in addition to the engineering sub contractor shall approve all documents and drawings. **Bidder shall furnish memorandum of understanding with engineering subcontractor for executing residual basic and detailed engineering.**

- c) In case the bidder does not possess requisite experience for pre-commissioning/commissioning, subcontracting for pre-commissioning/commissioning will be acceptable. If the bidder exclusively engages a commissioning subcontractor, the commissioning subcontractor shall meet the qualifying criteria for pre-commissioning/ commissioning as referred at clause **5.1.1(a)** in individual capacity. **Bidder shall furnish memorandum of understanding with commissioning subcontractor for executing pre commissioning and commissioning.**
- d) Bidder may be allowed to propose more than one engineering or commissioning subcontractor. However, successful bidder shall have to choose one approved engineering and one commissioning subcontractor.
- e) The unit /facilities referred in clause **5.1.1(a)** must have been commissioned within the last 10(ten) years and must have operated successfully for at least 1 (one) year after commissioning.
- f) The period mentioned in clause **5.1.1 (e)** shall be reckoned from the due date of submission of the PQ document.

5.1.2 In Case of Consortium Bid

- a) The leader of the consortium either on his own or along with other members of consortium shall meet the criteria indicated at clause **5.1.1 (a)** above. However, the leader of the consortium must have project management experience in the qualifying project.
- b) The division of scope of work among consortium members shall be generally commensurate with their past experience. The leader of the consortium shall be solely responsible for the project management.
- c) In case the leader or any member of the consortium satisfies the criteria for pre qualification given in clause **5.1.1 (a)** above, except for residual basic and detailed engineering, the bid shall also be considered subject to engaging an engineering subcontractor who meets the requirement of residual basic and detailed engineering as per clause **5.1.1 (b)** above
- d) In case the leader or any member of the consortium satisfies the criteria for pre qualification given in clause **5.1.1 (a)** above, except for pre-commissioning/commissioning the bid shall also be considered subject to engaging a pre-commissioning/ commissioning subcontractor who meets the requirement of pre commissioning / commissioning as per clause **5.1.1 (c)** above.
- e) Total number of consortium members, in a consortium excluding the leader of consortium shall not exceed **three**.
- f) The consortium bid shall also satisfy the requirements of clauses **5.1.1(d), 5.1.1(e) and 5.1.1(f)** above.

5.1.3 Wholly owned Indian subsidiary of a foreign company will also be considered provided the parent Company meets the experience criteria enumerated in clause 5.1.1 above and its sub-clauses. In such case, the following shall be complied and necessary documents from parent company shall be submitted:

- a) The work under consideration shall either be executed by the Parent Company or shall be executed under the supervision and back-up of the Parent Company.
- b) The Parent Company shall furnish a corporate undertaking to be jointly and severally responsible with the Indian Subsidiary for due, proper and timely performance of the contract and discharge of liabilities of its Indian Subsidiary in the event of the award of work to its Indian subsidiary.”

5.2 **Commercial Criteria**

5.2.1 **Experience Criteria**

5.2.1.1 **In Case of Single Bidder**

5.2.1.1.1 Bidder should have executed and completed at least one or two contracts in hydrocarbon sector/ fertilizer plant through EPCC route, either as single bidder or a leader of a consortium of minimum value(s) as indicated under in the last ten years reckoned from the due date for submission of PQ Bids:

- i) One Contract of minimum value of INR 880 Million or US\$ 19 Million
or
- ii) Two Contracts each of minimum value of INR 575 Million or US\$ 12.5 Million.

5.2.1.2 **In Case of Consortium**

5.2.1.2.1 The leader of Consortium shall meet the experience criteria as stipulated at 5.2.1.1.1 above.

5.2.2 **Financial Criteria**

5.2.2.1 **In Case of Single Bidder**

5.2.2.1.1 Annual turnover of Bidder shall not be less than **INR 1360 Million for Indian Bidders or US \$ 30 Million for Foreign Bidders** as per audited financial results in atleast one of the three preceding financial years upto the due date for submission of PQ bids.

5.2.2.1.2 The Net worth of the bidder as per latest audited financial results shall be positive.

5.2.2.2 **In Case Bidder is a Consortium**

5.2.2.2.1 At least one of the members of the Consortium shall meet the financial criteria stipulated at 5.2.2.1.1 above. .

5.2.2.2.2 The Leader as well as all the other members of the consortium shall meet the financial Criteria stipulated at 5.2.2.1.2 above.

5.2.3 **Wholly Owned Indian Subsidiary Of Foreign Company:**

5.2.3.1 Wholly owned Indian subsidiary of a foreign company will also be considered provided the parent Company meets the Commercial criteria enumerated in clause 5.2 (Experience Criteria at Sl. No. 5.2.1 & Financial Criteria at Sl. no. 5.2.2)

above and its sub-clauses . In such case, necessary documents from parent company shall be submitted:

5.3 **General Criteria in Case Bidder is Consortium**

- 5.3.1 The Consortium leader and the distribution of work will be identified and set forth in the PQ bid and will not be permitted to be changed thereafter.
- 5.3.2 The selected leader of the Consortium shall be authorized to incur liabilities and receive instructions for and on behalf of any and all member(s) of the consortium.
- 5.3.3 All the members of the Consortium shall be liable jointly and severally for the performance of the contract and discharge of the Contractor's obligations and liabilities under the contract.

5.4 **General**

- 5.4.1 ISPRL/ EIL reserve the right to use in-house data for qualification of bidders.
- 5.4.2 The Bidder shall furnish documentary proof of fulfilling the Pre-Qualification Criteria mentioned in clause no.5.0 along with the PQ Bid. This documentation shall include but not be limited to the following:
 - a) Details pertaining to projects completed by single bidder/ leader of consortium/ consortium partner and/ or engineering sub-contractor/ pre-commissioning & commissioning sub-contractor for the pre-qualification:
 - i. Name and description of the project
 - ii. Type of contract
 - iii. Copies of work order
 - iv. Contract Agreement/ relevant pages of contract document
 - v. Completion certificate(s)
 - vi. Certificate(s) of satisfactory operation of commissioned plant(s) from owners of the referred units/facilities
 - vii. Location and contact persons of the referred jobs
 - viii. Scope of Work
 - ix. Engineering consultant
 - x. Scheduled and actual completion dates
 - xi. List of key construction equipments deployed (nos. and capacity)
 - xii. Value of award
 - b) Details of Bidder's organization, procedures and equipment:
 - i. Safety Records
 - ii. Health and safety, Environmental policy and system
 - iii. Risk Management System
 - iv. Equipments owned and proposed to be used for this project.
 - v. Copy of consortium agreement with clear division of responsibilities, if applicable
 - vi. Memorandum of Understanding/ Sub-contract agreement with the proposed agency, if some job is proposed to be subcontracted in terms of above BQC
 - vii. CVs of key personnel.
 - viii. Engineering capability (in-house or subcontract)
 - ix. Quality System
 - x. Financial Statements including audited Profit and Loss Account, Balance Sheets etc. for the three preceding financial years upto the due date of submission of PQ Bids.

- c) The documentation towards proof of fulfilling qualification criteria at clause 5 shall include the requirements of bidder and bidder's subcontractors, if any.
- d) In case of foreign Bidder/ Foreign consortium member(s) all supporting documents, pertaining to qualification criteria submitted as evidence shall be certified true copies duly signed, dated and stamped by an official authorized for this purpose in Indian Embassy/ High Commission in Bidder's country.
- 6.0 Evaluation for Pre-Qualification bids shall be carried out as specified in Pre-Qualification Booklet/ Document.
- 7.0 Bidder/ consortium members submitting their PQ bid shall not be under liquidation, court receivership or similar proceeding.
- 8.0 Non-transferable Pre-qualification (PQ) Document/ Booklet can be purchased by the bidder from Cashier, Engineers India Limited, EI Annexe, UG Floor, 1, Bhikaiji Cama Place, R.K. Puram, New Delhi-110066 (India) on any working day (Monday to Friday except Holidays) between **1400 Hrs. to 1600 Hrs. from 15.03.2010 to 26.04.2010** on payment of non-refundable Document cost of US \$ 435 (US Dollars Four Hundred Thirty Five only)/ INR 20,000/- (Indian Rupees Twenty Thousand only) for foreign Bidders and INR 20,000/- (Indian Rupees Twenty thousand only) for Indian Bidders through a crossed demand draft drawn in favour of Indian Strategic Petroleum Reserves Limited payable at New Delhi. Agencies are required to collect the PQ Document personally or through their authorized representatives. Request for sending the Document by post, courier or any other mode shall not be entertained. Authorized representatives of foreign agencies can purchase the PQ Document on payment in Indian Rupees or in Foreign currency (US \$) on or before submission of PQ Bids. PQ Document can also be down loaded from the web site of ISPRL (<http://www.isprlindia.com>) or EIL (<http://www.engineersindia.com>). Small scale units registered with NSIC and Central Govt. Public Sector Undertaking will be issued PQ Document free of cost. Agencies who have downloaded the PQ Document from the ISPRL/EIL web site are required to pay the Document cost by Demand Draft/Banker's cheque at the time of submission of their Pre-Qualification Bid (PQ Bid without the cost of PQ Document shall not be entertained).
- 9.0 Pre-Bid Meeting
- | | | |
|----------------|---|----------------------------------------------------------------------------------------------------------|
| a) Time & Date | : | 1000 Hrs. (IST) on 12.04.2010 |
| b) Venue | : | Indian Strategic Petroleum Reserves Ltd.,
OIDB Bhavan
Plot no 2 ,Sector 73
Noida, Uttar Pradesh |
- The purpose of pre-bid meeting is to discuss about the project and clarify any issue pertaining to PQ document.
- 10.0 PQ Bids duly filled with all information and supporting documents shall be submitted in the office of the undersigned latest by **1200 Hrs. (IST) on 27.04.2010**. Bidders should ensure submission of complete information/ documentation in the first instance itself. Pre-qualification may be completed based on the details so furnished without seeking any subsequent additional information.
- 11.0 PQ Bids shall be opened on **27.04.2010 at 1400 hrs (IST)** in the presence of attending representative of bidders in EIL office at New Delhi
- 12.0 PQ Bids not received by the due date and time shall be rejected.

- 13.0 Issuance of PQ Document and/or submission of PQ Bids shall not be presumed as pre-qualification or entitle the agencies to participate in the main bidding process.
- 14.0 ISPRL/EIL will not be responsible for any costs or expenses incurred by the Bidder in connection with preparation or delivery of PQ Bids participating in discussions etc. including costs and expenses related with visits to the site.
- 15.0 ISPRL/ EIL shall allow purchase preference to Indian Central Government Public Sector Undertaking/ Enterprises as admissible under the existing policies of Government of India.
- 16.0 Telex/ Telefax/ Telegraphic/E-mail PQ bids shall not be accepted. ISPRL/EIL takes no responsibility for delay, loss or non-receipt of PQ bid sent by post/Courier.
- 17.0 ISPRL/EIL reserves the right to reject any or all PQ Bids at their sole discretion without assigning any reason whatsoever.
- 18.0 Canvassing in any form by the Bidder or by any other Bidder on their behalf may lead to disqualification of their PQ Bid.
- 19.0 Contact Details are as follows:
Telefax No. : 91-11-26191714/26167664
Telephone No. : 91-11-26762002/ 26192704
E-Mail : rk.sabharwal@eil.co.in

Dy. GENERAL MANAGER (C & P)
ENGINEERS INDIA LTD., NEW DELHI