



# INDIAN STRATEGIC PETROLEUM RESERVES LIMITED

STRATEGIC STORAGE OF CRUDE OIL PROJECT  
at

VISAKHAPATNAM, ANDHRA PRADESH INDIA

( INTERNATIONAL COMPETITIVE BIDDING)

( PQ BOOKLET NO.: 6838/PQ-010/08-09/RKS/04)

PRE-QUALIFICATION BOOKLET  
FOR  
INFRASTRUCTURE AND PROCESS FACILITIES AT TOP  
SIDE, INSIDE CAVERN SHAFT AND WITHIN CAVERN  
ON EPCC BASIS

PREPARED AND ISSUED BY:

**इंजीनियर्स  
इंडिया लिमिटेड**  **ENGINEERS  
INDIA LIMITED**  
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)

COST OF PQ DOCUMENT

FOR INDIAN BIDDER : INR 20,000/-

FOR FOREIGN BIDDER : US \$ 500/- or INR 20,000/-

## MASTER INDEX

**NAME OF WORK:       INFRASTRUCTURE       AND       PROCESS  
FACILITIES AT TOP SIDE, INSIDE CAVERN  
SHAFT AND WITHIN CAVERN ON EPCC BASIS  
FOR STRATEGIC STORAGE OF CRUDE OIL  
PROJECT AT VISAKHAPATNAM, ANDHRA  
PRADESH (INDIA) OF M/S ISPRL**

**PQ DOCUMENT NO.   6838/PQ-010/08-09/RKS/04**

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**ISSUE LETTER OF PQ BOOKLET/ DOCUMENT  
FOR INFRASTRUCTURE AND PROCESS FACILITIES AT TOP SIDE,  
INSIDE CAVERN SHAFT & WITHIN CAVERN ON EPCC BASIS  
FOR STRATEGIC STORAGE OF CRUDE OIL PROJECT AT  
VISA KHAPATNAM, ANDHRA PRADESH (INDIA) OF M/S ISPRL**

1.0 PQ Booklet/ Document in the form of "Compact Disc" (CD) (1 no.) is hereby issued to:

NAME OF BIDDER : \_\_\_\_\_

ADDRESS OF BIDDER : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2.0 The cost of the PQ Booklet i.e. US \$ 500/- (US Dollars Five hundred only)/ INR 20,000/- (Indian Rupees Twenty thousand only) for Foreign Bidder or INR 20,000/- (Indian Rupees Twenty thousand only) for Indian Bidder in the form of crossed Demand Draft in favour of Indian Strategic Petroleum Reserves Limited payable at New Delhi, is paid as below:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AGM (C&P)  
ENGINEERS INDIA LIMITED

**INVITATION FOR PRE-QUALIFICATION OF BIDDERS  
FOR INFRASTRUCTURE AND PROCESS FACILITIES AT TOP SIDE,  
INSIDE CAVERN SHAFT AND WITHIN CAVERN ON EPCC BASIS  
FOR STRATEGIC STORAGE OF CRUDE OIL PROJECT OF M/S  
ISPRL AT VISAKHAPATNAM IN THE STATE OF  
ANDHRAPRADESH, INDIA  
(PQ DOCUMENT NO.: 6838/PQ-010/08-09/RKS/04)**

**(INTERNATIONAL COMPETITIVE BIDDING)**

**1.0 General:**

Indian Strategic Petroleum Reserve Limited (ISPRL), a wholly owned subsidiary of Oil Industry Development Board, Ministry of Petroleum & Natural Gas, Government of India, proposes to construct underground unlined rock cavern storage for imported crude oil at Visakhapatnam (India) for 1.33 MMT. ISPRL has appointed Engineers India Limited as the Project Management Consultant for this Project.

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 Infrastructure and Process Facilities at Top Side, Inside Cavern Shaft and Identified Process Facilities within Cavern including all performance tests, from the technically and financially sound agencies, meeting the requirements as specified in the Pre-Qualification booklet.

**2.0 Scope of Work:**

- 2.1 The scope of work involves project management, detailed engineering, procurement, fabrication, inspection, transportation of all equipment/ materials to the work site, storage, assembly, erection, installation, construction, pre-commissioning/ commissioning, testing for performance guarantee etc and handing over of infrastructure and all process facilities located at (i) TOP SIDE OF CAVERN including crude oil pipeline from tap-off point to cavern and interconnections of all utilities with the storage system, (ii) INSIDE CAVERN SHAFT, and (iii) WITHIN CAVERN on EPCC basis including residual basic engineering for all top side, cavern shaft and within cavern facilities including supply of spares.
- 2.2 The EPCC contractor shall be required to obtain all statutory approvals for completion of their scope of work.
- 2.3 The details of infrastructure and process & utility facilities are as follows:
- 2.3.1 Infrastructure:  
Site development including site grading, rock excavation and slope stabilization and construction of boundary wall, roads, drains and culverts, watchtowers, gatehouse, gates etc.

## 2.3.2 Process & Utility facilities:

### 2.3.2.1 TOP SIDE OF CAVERN Process & Utility facilities:

- N2 generation/inert gas generation system
- Liquefied N2 storage system
- Crude heating system
- Water softening and boiler system
- Service and potable water system
- Steam system
- Drainage and sewer system
- Effluent Treatment
- Instrument and Plant air system
- Fire protection and Fire fighting system
- Flare and Blow down system
- Electrical switchyard and electrical distribution system
- Control and safety system (EDS, DCS, fire and gas)
- Communication and telecommunication system
- Crude receipt and dispatch facilities (including tap-off), cross country pipeline of approximately 1.0Km of 36/48 inch diameter
- Auxiliary facilities like metering stations, control rooms, substations and service buildings

### 2.3.2.2 INSIDE CAVERN SHAFT facilities:

- Pump casings, submersible pumps (crude oil and seepage water) and related piping, instrumentation and electrical
- Concrete plugs

### 2.3.2.3 WITHIN CAVERN facilities:

- Concrete encased perforated piping for crude heating
- Steam piping for heating of sludge in pit of the shaft
- Concrete barriers
- Final cleaning of cavern
- Calibration of cavern storage (for calibration of the cavern as-built drawings of the cavern shall be made available)
- Charging and commissioning of water curtain
- Cavern tightness testing, inertization and commissioning

## **3.0 Definitions**

3.1 The 'Bidder' shall mean either (i) an EPCC contractor in individual capacity or (ii) a consortium comprising of an EPCC contractor as leader of the consortium.

## **4.0 PRE-QUALIFICATION CRITERIA:**

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

### **4.1 TECHNICAL CRITERIA**

#### **4.1.1 IN CASE OF SINGLE BIDDER**

4.1.1.1 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, and testing for performance guarantee, for any of the following process units/ facilities:

- (i) GRASS-ROOT process unit handling hydrocarbon
- (ii) Pipeline Terminal handling hydrocarbon
- (iii) Petroleum, Oil and Lubricant (POL) Terminal
- (iv) Utilities & offsite of process plants handling hydrocarbons

Note: A bidder who meets the criteria above as a leader of a consortium should have carried out project management in the qualifying project.

- 4.1.1.2 (a) In case the Bidder does not possess requisite experience, sub-contracting will be acceptable, for detailed engineering if the Bidder exclusively engages an engineering sub-contractor for detailed engineering with pre-award agreement. The engineering sub-contractor shall meet the qualifying criteria for residual basic and detailed engineering as referred at clause 4.1.1.1 in individual capacity.

The engineering sub-contractor shall prepare all residual basic engineering and detailed engineering documents and drawings at its own design center. The bidder, in addition to the engineering sub-contractor shall approve all documents and drawings.

- (b) In case the Bidder does not possess requisite experience for pre-commissioning/ commissioning, sub-contracting for pre-commissioning/ commissioning will be acceptable if the Bidder exclusively engages a commissioning sub-contractor, with pre-award agreement. The commissioning sub-contractor shall meet the qualifying criteria for pre-commissioning/commissioning as referred at clause 4.1.1.1 in individual capacity.
- 4.1.1.3 (a) Bidder shall furnish Memorandum of Understanding with engineering sub-contractor for executing residual basic and detailed engineering, as per clause 4.1.1.2 (a).
- (b) Bidder shall furnish Memorandum of Understanding with commissioning sub-contractor for executing pre-commissioning/ commissioning of work, as per clause 4.1.1.2 (b).
- (c) Bidder may be allowed to propose more than one engineering or commissioning sub-contractor. However successful bidder shall have to choose one approved engineering or commissioning sub-contractor.
- 4.1.1.4 The Unit/facilities as referred in clause 4.1.1.1 must have been commissioned within the last 10 (ten) years and must have operated successfully for at least 1 (one) year after commissioning.
- 4.1.1.5 The period mentioned in clause 4.1.1.4 shall be reckoned from the due date of submission of the PQ bid.

## **4.2 IN CASE BIDDER IS A CONSORTIUM**

- 4.2.1 The leader of the consortium shall meet the criteria indicated at clause 4.1.1.1 above.

- 4.2.2 The division of scope of work among the consortium members shall be generally commensurate with their past experience. The leader of the consortium shall be solely responsible for the project management.
- 4.2.3 In case the consortium satisfies the criteria for pre-qualification given in clause 4.1.1.1 above, except for detailed engineering, the bid shall also be considered subject to engaging an engineering sub-contractor/consortium member who meets the requirement of residual and detailed engineering as per clause 4.1.1.1 above.
- 4.2.4 In case the consortium satisfies the criteria for pre-qualification given in clause 4.1.1.1 above, except for pre-commissioning/commissioning, the bid shall also be considered subject to engaging an commissioning sub-contractor/consortium member who meets the requirement of pre-commissioning/commissioning as per clause 4.1.1.1 above.
- 4.2.5 Total number of consortium members, in a consortium, excluding leader of consortium shall not exceed two.
- 4.2.6 The consortium bid shall also satisfy the requirements of clauses 4.1.1.3, 4.1.1.4 and 4.1.1.5.

### **4.3 COMMERCIAL CRITERIA**

#### **4.3.1 EXPERIENCE CRITERIA**

##### **4.3.1.1 IN CASE OF SINGLE BIDDER**

- 4.3.1.1.1 Bidder should have executed and completed at least one contract in hydrocarbon sector through EPCC route, either as single bidder or a leader of a consortium of minimum value INR 2250 Million or US\$ 56.25 Million in the last ten years reckoned from the due date of submission of PQ Bids.

##### **4.3.1.2 IN CASE OF CONSORTIUM**

- 4.3.1.2.1 The leader of Consortium shall meet the experience criteria as stipulated at 4.3.1.1.1 above.

#### **4.3.2 FINANCIAL CRITERIA**

##### **4.3.2.1 IN CASE OF SINGLE BIDDER**

- 4.3.2.1.1 Annual turnover of Bidder shall not be less than **INR 1500 Million for Indian Bidders or US \$ 37.50 Million for Foreign Bidders** as per audited financial results in any one of the three preceding financial years upto the due date for submission of PQ bids.

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

#### **4.3.3 IN CASE BIDDER IS A CONSORTIUM**

- 4.3.3.1 At least one of the members of the Consortium shall meet the financial criteria stipulated at 4.3.2.1.1 above. .

- 4.3.3.2 The Leader as well as all the other members of the consortium shall meet the financial Criteria stipulated at 4.3.2.1.2 above.

#### **4.4 GENERAL CRITERIA IN CASE BIDDER IS CONSORTIUM**

- 4.4.1 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.
- 4.4.2 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.
- 4.4.3 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.

#### **4.5 GENERAL**

- 4.5.1 ISPRL/ EIL reserve the right to use in-house data for qualification of bidders.
- 4.5.2 The Bidder shall furnish documentary proof of fulfilling the Pre-Qualification Criteria mentioned in clause no.4.0 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/ commissioning sub-contractor for the pre-qualification:
    - i. Name and description of the project
    - ii. Type of contract
    - iii. Contract Agreement/ relevant pages of contract
    - iv. Scope of Work
    - v. Engineering consultant
    - vi. Scheduled and actual completion dates
    - vii. List of key construction equipments deployed (nos. and capacity)
    - viii. Value of award
    - ix. Completion certificates
  - 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. 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) 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.
- 5.0 Evaluation for Pre-Qualification bids shall be carried out as specified in Pre-Qualification Booklet.
- 6.0 Bidder/ consortium members submitting their PQ bid shall not be under liquidation, court receivership or similar proceeding.
- 7.0 Non-transferable Pre-qualification (PQ) Booklet can be purchased by the bidder from Cashier, Engineers India Limited, EI Annexe, UG Floor, 2B, 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 **01.05.2008** to **11.06.2008** on payment of non-refundable booklet cost of US \$ 500 (US Dollars Five Hundred 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 Booklet personally or through their authorized representatives. Request for sending the Booklet by post, courier or any other mode shall not be entertained. Authorized representatives of foreign agencies can purchase the PQ Booklet on payment in Indian Rupees or in Foreign currency (US \$) on or before submission of PQ Bids. PQ Booklet can also be down loaded from the web site of ISPRL (<http://www.isprlindia.com>) or EIL (<http://www.indianprocessplants.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 Booklet from the ISPRL/EIL web site are required to pay the Booklet cost by Demand Draft/Banker's cheque at the time of submission of their Pre-Qualification Bid (PQ Bid without the cost of PQ Booklet shall not be entertained).
- 8.0 Pre-Bid Meeting
- a) Time & Date : **1000 Hrs. (IST) on 16.05.2008.**
  - b) Venue : Indian Strategic Petroleum Reserves Ltd.,  
424-425, World Trade Centre,  
Babar Road, New Delhi-110 001

The purpose of pre-bid meeting is to discuss about the project and clarify any issue pertaining to PQ document.

- 9.0 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 12.06.2008**. 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.
- 10.0 PQ Bids shall be opened on **12.06.2008 at 1400 hrs (IST)** in the presence of attending representative of bidders in EIL office at New Delhi.
- 11.0 PQ Bids not received by the due date and time shall be rejected.

- 12.0 Issuance of PQ Booklet and/or submission of PQ Bids shall not be presumed as pre-qualification or entitle the agencies to participate in the main bidding process.
- 13.0 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.
- 14.0 ISPRL/ EIL shall allow purchase preference to Indian Central Government Public Sector Undertaking/ Enterprises as admissible under the existing policies of Government of India.
- 15.0 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.
- 16.0 ISPRL/EIL reserves the right to reject any or all PQ Bids at their sole discretion without assigning any reason whatsoever.
- 17.0 Canvassing in any form by the Bidder or by any other Bidder on their behalf may lead to disqualification of their PQ Bid.
- 18.0 Contact Details are as follows:  
Telefax No. : 91-11-26191714/26167664  
Telephone No. : 91-11-26102121  
E-Mail : rk.sabharwal@eil.co.in

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

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**INVITATION FOR PRE-QUALIFICATION OF BIDDERS  
FOR INFRASTRUCTURE AND PROCESS FACILITIES AT TOP SIDE,  
INSIDE CAVERN SHAFT AND WITHIN CAVERN ON EPCC BASIS  
FOR STRATEGIC STORAGE OF CRUDE OIL PROJECT OF M/S  
ISPRL AT VISAKHAPATNAM IN THE STATE OF  
ANDHRAPRADESH, INDIA  
(PQ DOCUMENT NO.: 6838/PQ-010/08-09/RKS/04)  
(INTERNATIONAL COMPETITIVE BIDDING)**

- 1.0 Indian Strategic Petroleum Reserve Limited (ISPRL), a wholly owned subsidiary of Oil Industry Development Board, Ministry of Petroleum & Natural Gas, Government of India, proposes to construct underground unlined rock cavern storage for imported crude oil at Visakhapatnam (India) for 1.33 MMT. ISPRL has appointed Engineers India Limited as the Project Management Consultant for this Project.
- 1.1 EIL, New Delhi on behalf of ISPRL, invites bids for Pre-qualification of bidders, for Engineering, Procurement, Construction & Pre-commissioning/ Commissioning (EPCC) of Infrastructure and Process Facilities at Top Side, Inside Cavern Shaft and Identified Process Facilities within Cavern including all performance tests, from the technically and financially sound agencies, meeting the requirements as specified in the Pre-Qualification booklet .
- 1.2 Sale Period : From **01.05.2008 to 11.06.2008**
- 1.3 Last Date & Time of Submission of PQ Bid : **12.06.2008 up to 1200 Hrs. (IST)**
- 1.4 Cost of PQ Document : For Indian Bidder: **INR 20,000/-**  
For Foreign Bidder: **US \$ 500 or INR 20,000/-**

The detailed Invitation for Pre-qualification of Bidders along with Qualification Criteria and PQ document can be viewed and downloaded from EIL website <http://www.indianprocessplants.com> and ISPRL website <http://www.isprlindia.com>

Contact Details are as follows:

Fax No. 00-91-11-26191714/ 26167664

Telephone No. 00-91-11-26102121

E-Mail : [rk.sabharwal@eil.co.in](mailto:rk.sabharwal@eil.co.in)

ASST. GENERAL MANAGER (C& P)  
ENGINEERS INDIA LIMITED – NEW DELHI

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# ***INSTRUCTIONS FOR PRE-QUALIFICATION BID SUBMISSION***

**Infrastructure and Process facilities at  
top side, inside cavern shaft and  
within cavern on EPCC basis (Part-B)**

**STRATEGIC STORAGE OF CRUDE OIL IN  
UNDERGROUND ROCK CAVERNS AT VISHAKHAPATNAM  
FOR**

***M/s INDIAN STRATEGIC PETROLEUM RESERVES LIMITED***

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## 1.0 INTRODUCTION

M/s Indian Strategic Petroleum Reserve Limited (ISPRL), a wholly owned subsidiary of Oil Industries Development Board (OIDB) under Ministry of Petroleum & Natural Gas (MoPNG), Government of India; proposes to construct underground-unlined rock cavern storage for imported crude oil at Visakhapatnam for 1.33 MMT. M/s Engineers India Limited (EIL) is the Project Management Consultant for the above works.

The storage facility shall consist of storage units with a total storage capacity of 1.33 MMT. The caverns shall be U/W-shaped in plan with an approximate 'D' shaped cross-section with a horizontal roof level maintained throughout the cavern length. The product intake shall be located at the end of one leg and the pump installation located at the end of the other leg. At least one shaft shall be provided for each storage cavern.

The total work is proposed to be carried out in two parts, Part-A and Part-B. Part-A, shall consist of civil works for underground rock caverns which is already under progress. Part-B shall consist of infrastructure and process facilities at top side, inside cavern shaft and within cavern. The scheduled completion time for Part-B is 24 months, plus 6 months for pre-commissioning/commissioning.

Engineers India Limited (EIL), New Delhi on behalf of ISPRL, invites bids for Pre-qualification of bidders, for the work of 'Infrastructure and Process facilities at top side, inside cavern shaft and within cavern on EPCC basis (Part-B)', from the technically and financially sound agencies, meeting the requirements as specified in the Pre-Qualification booklet.

## 2.0 DEFINITIONS

- a) 'Owner' shall mean Indian Strategic Petroleum Reserves Limited (ISPRL) a company incorporated in India and having its registered office at 301, World Trade Centre, Babar Road, New Delhi-110 001 and shall include its successors and assigns.
- b) 'Consultant' shall means Engineers India Ltd., a company incorporated in India and having its registered Office at El Bhawan, 1, Bhikaiji Cama Place, New Delhi – 110 066 (India) and shall include its successors and assigns.
- c) 'Bidder' shall mean the agency that has submitted the PQ Bid in response to PQ Booklet.
- d) 'Pre-qualified Bidder' shall mean the Bidder who has been pre-qualified by Owner for issue of the Bidding Document.
- e) 'PQ Bid' shall mean the bid submitted by Bidder(s) for Pre-qualification, for issue of the Bidding Document for this work in response to this PQ Booklet.
- f) 'Bid' shall mean the bid submitted by the pre-qualified Bidder after issue of the Bidding Document.
- g) 'Bidding Document' shall mean the document issued to the Pre-qualified Bidder for submission of their Bid.

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- h) 'Experience Criteria' shall mean the technical criteria and single value of job defined in Invitation for Pre-qualification Bid.
- i) 'Financial Criteria' shall mean the minimum annual turnover criteria and other requirement mentioned in the 'Invitation for Pre-qualification'. Financial criteria shall be applied in respect of bidding entity and not of the group where bidder is a part of group.

### 3.0 SCOPE OF WORK

- a) The scope of work involves project management, detailed engineering, procurement, fabrication, inspection, transportation of all equipment/materials to the work site, storage, assembly, erection, installation, construction, pre-commissioning/ commissioning, testing for performance guarantee etc and handing over of infrastructure and all process facilities located at (i) TOP SIDE OF CAVERN including crude oil pipeline from tap-off point to cavern and interconnections of all utilities with the storage system, (ii) INSIDE CAVERN SHAFT, and (iii) WITHIN CAVERN on EPCC basis including residual basic engineering for all top side, cavern shaft and within cavern facilities and supply of spares.
- b) The EPCC contractor shall be required to obtain all statutory approvals for completion of their scope of work.
- c) The details of infrastructure and process & utility facilities is as follows:
- d) Infrastructure:  
Site development including site grading, rock excavation and slope stabilization and construction of boundary wall, roads, drains and culverts, watchtowers, gatehouse, gates etc.
- e) Process & Utility facilities:  
TOP SIDE OF CAVERN Process & Utility facilities:
- i. N2 generation/inert gas generation system
  - ii. Liquefied N2 storage system
  - iii. Crude heating system
  - iv. Water softening and boiler system
  - v. Service and potable water system
  - vi. Steam system
  - vii. Drainage and sewer system
  - viii. Effluent Treatment
  - ix. Instrument and Plant air system
  - x. Fire protection and Fire fighting system
  - xi. Flare and Blow down system
  - xii. Electrical switchyard and electrical distribution system
  - xiii. Control and safety system (EDS, DCS, fire and gas)
  - xiv. Communication and telecommunication system
  - xv. Crude receipt and dispatch facilities (including tap-off), cross country pipeline of approximately 1.0 km of 36 / 48 inch diameter.
  - xvi. Auxiliary facilities like metering stations, control rooms, substations and service buildings

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INSIDE CAVERN SHAFT facilities:

- i. Pump casings, submersible pumps (crude oil and seepage water) and related piping, instrumentation and electrical
- ii. Concrete plugs

WITHIN CAVERN facilities:

- i. Concrete encased perforated piping for crude heating
- ii. Steam piping for heating of sludge in pit of the shaft
- iii. Concrete barriers
- iv. Final cleaning of cavern
- v. Calibration of cavern storage (for calibration of the cavern, as-built drawings of the cavern shall be made available)
- vi. Charging and commissioning of water curtain
- vii. Cavern tightness testing, inertization and commissioning

#### 4.0 TERMS AND CONDITIONS

a) Cost of Bidding

The bidder shall bear all costs associated with the preparation and submission of its PQ Bid, participating in discussions etc. including costs and expenses related with visits to the site(s). ISPRL/EIL will in no case be responsible or liable for those costs and expenses regardless of the outcome of the Bidding process.

b) Language of PQ Bids

The PQ bid and all correspondence incidental and related to bid shall be in English language. Any printed literature and document submitted in any other language should be accompanied by authenticated English translation, in which case, for purpose of interpretation of the PQ bid, English translation shall govern.

In the event of submission of any document/certificate by the bidder in a language other than English, the bidder shall submit the English translation of the same duly authenticated by an official authorized for this purpose in Indian Embassy/ High Commission in Bidder's country. Responsibility for correctness in translation shall lie with the Bidder.

c) Cost of Main Bidding Document

Non-transferable Main Bidding Document shall be issued to pre-qualified bidder, free of cost/charge.

d) Bidder not to be a Sub-Contractor

A Bidder at the PQ stage shall not be allowed to be a sub-contractor to a bidder at the EPCC stage. However, this clause shall not apply to engineering sub-contractors/ commissioning sub-contractor.

e) Owner's Right

ISPR/L/EIL reserve its right to call for clarifications/original of the supporting document for verification, as deemed fit and also to cross check for any details as furnished by the Bidder(s) from past-executed projects/clients/consultants etc. Bidder(s) shall have no objection whatsoever in this regard.

All the details/ documents submitted along with PQ Bid and which have been considered for pre-qualification shall remain valid.

In-house work experience shall not be considered as valid experience for the purpose of Pre-Qualification.

## 5.0 PREPARATION / SUBMISSION OF PQ BIDS

- a) Bidder is required to submit PQ Bid in the format as given in Exhibit enclosed separately in order to achieve the objective of maintaining uniform PQ Bid structure from all the Bidders. These requirements must be adhered to by all the Bidders.
- b) The Prequalification Requirements are explicitly stated in this Booklet. Bidder is required to study these requirements in detail & make a PQ Bid as defined above completely meeting these requirements. The PQ Bid must be complete in all respect leaving no scope for ambiguity.
- c) The PQ Bid shall be submitted with all details as per **checklist**.

## 6.0 SUBMISSION OF PQ BIDS

- a) One complete set of PQ Booklet in "Compact Disc" (CD) shall be issued to the Bidders if purchased from EIL sale counter. Bidders are advised to submit PQ Bids strictly in accordance with requirement mentioned vide Clause 8.0. PQ Bid shall contain one original and five copies along with all necessary documents filed separately and shall be submitted at the following address latest by 1200 Hrs. (IST) on date mentioned in Invitation For Pre-qualification.

**Receipt Section.**

**Engineers India Ltd.**

**EI Annexe, LG Floor**

**1, Bhikaiji Cama Place**

**NEW DELHI - 110066 (INDIA).**

**TELEPHONE NO. 0091-11-26102121**

**FAX NO.0091-11-26191714/ 26167664**

**E-mail: [r.k.sabharwal@eil.co.in](mailto:r.k.sabharwal@eil.co.in)**

**Attn : Mr. R.K Sabharwal, Asst. General Manager ( C&P)**

- b) A copy of PQ Booklet, after taking print out from `CD' shall be signed and stamped on each page and returned back along with the PQ Bid as a token of acceptance.

c) Salient information to be submitted by Bidder(s) is mentioned under para (d) to (n) below.

d) Experience Details

The experience details of all such works, which Bidder (single bidder, consortium leader, consortium partners / engineering sub-contractor/ commissioning sub-contractor) considers are meeting experience criteria shall be submitted as per **Exhibit-1**. Copy of detailed work order/notification for award of work / contract document and copy of proof of completion, plant has been in operation and or PG Test run has been conducted shall be substantiated / authenticated along with Experience Details as per **Exhibit-1**. Bidder shall furnish their Experience Details during previous 10 years as a Single Bidder in line with Experience Criteria mentioned under Invitation for Pre-qualification Bid as per **Exhibit-2**.

e) Financial Details

Bidder shall furnish the following:

- i. All information as per **Exhibit-3**.
- ii. Audited balance sheets and Profit & Loss Account for the last three preceding years.
- iii. Details of Present commitments as per **Exhibit –4**.

f) Project Execution Plan

Bidder shall furnish Organisation Chart for this work as per **Exhibit – 5** comprising the following:

- i. Organisation Chart : This shall include organizational set up proposed to be deployed for all phases of work including Home office support, Home office organization for carrying out the relevant work by the Home office, Project Management team in India, site organization and engineering set up, coordination office at Delhi. Key personnel shall have adequate experience in Project implementation of similar work.
- ii. Organization structure for carrying out the Engineering work on dedicated task force system.
- iii. Organisation structure for procurement services including purchase, inspection, expediting, third party inspection, custom clearance and transportation, monitoring of movement of all consignments
- iv. Organization chart for sub-contracting and contract administration.
- v. Organization chart for planning, scheduling and monitoring.
- vi. Site Organization chart covering construction supervision, Quality assurance and quality control, shipping and custom clearance, warehouse management and material control, field engineering, safety, billing etc.
- vii. Overall organization chart indicating interface among the various disciplines.

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g) Methodology of execution of basic engineering and engineering work.

Bidder shall furnish their methodology of execution as per **Exhibit – 6** comprising the following:

- i. Residual Basic Engineering
- ii. Detailed Engineering

Engineering shall be carried out by using the latest version of plant design system PDS/PDMS and 3D Modeling. Bidder shall furnish details of PDS/PDMS software/work station to be used by them along with latest IT communication system and Engineering Documentation. Management, Control and Transfer of deliverables as per defined engineering schedule during the currency of project implementation.

h) Methodology of Procurement, Construction and Execution

- i. Site Fabrication Facilities : Furnish details of temporary site fabrication & structural workshop/fabrication/ piping pre-fabrication yard to be established at site.
- ii. Monsoon Working : Bidder shall furnish the strategy for working in monsoon and how to minimize the loss of progress during monsoon period.
- iii. Extent of Mechanization: Bidder(s) shall identify all schemes maximizing mechanizing of construction activities by deploying large scale construction equipment such as batching plants, concrete pump, transit mixers, deployment of various type of heavy, medium and light duty cranes, facilities like radiography, In-situ metalgraphy etc.

Bidder(s) shall describe the use of pre-erection assembly/modular structure in their execution plan whichever envisaged to speed up construction work.

- iv. Expediting of Material/Equipment : Bidder(s) shall clearly spell out in the PQ bid its material control philosophy and material management system that will adequately monitor delivery projections, focus on slippages and initiation of expediting activities with micro planning to ensure timely delivery of materials both from overseas and domestic vendors.

i) Company's Organizational Details

Bidder shall specify whether the Company is Affiliate Company or Parent Company as per **Exhibit-7**.

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j) Quality Assurance

Whether Bidder has a documented Quality Assurance System? If yes, please furnish the following as per **Exhibit-8**:

- i. Index of Quality Assurance System.
- ii. Various sample formats including the following:
  - Format for QA Plan for Piping Engineering work.
  - Format for QA Plan for Inspection of tanks and vessels after erection at site.
  - Format for QA Plan for concreting work at site.
  - Format for QA Plan for Erection, alignment, grouting of rotary equipments such as large pumps, compressors.
  - Format for QA Plan for operation, management and maintenance of plant.
  - Format for QA Plan for laying of pipeline.

Whether Bidder has any international accreditation such as ISO, ASME, etc. if yes, copy of such certificate shall be furnished.

Please furnish Organogram of QA/QC system of your organisation for all phases of work, such as, engineering, procurements, construction, pre-commissioning, commissioning, operation and maintenance of plant.

Furnish all systems procedure and manual for constructability, operability and maintainability of all construction facilities during the phase of construction.

k) Health And Safety & Environment

Whether the Bidder has well documented HSE policy if yes, please furnish the following as per **Exhibit-9**.

- i. Index of HSE
- ii. Various procedures including the following:
  - Procedures for accident reporting, logging, follow up actions and Investigations.
  - Procedure for implementation of safety requirements at site.

Please give details of safety awards given by client/local agency/international agency during last 10 years. Please enclose a copy of the same.

Please furnish safety records for the last three years giving Severity Rate and frequency Rate giving brief description of the same as per **Exhibit-9**.

l) Litigation / Arbitration

Please give number and details of any litigation/arbitration proceedings, presently under process or have under gone earlier with respect to the works executed by Bidder during last 5 years as per **Exhibit-10**.

m) Qualification and Experience of Technical Personnel

Please furnish details of specialists in various fields, giving their CV in brief as per **Exhibit-11**. This shall be furnished for the following disciplines:

- i. Design
- ii. Detailed Engineering like civil & structural, pressure vessels, piping, mechanical equipment/ rotary equipment, heat exchangers, Electrical & Instrumentation packaged equipment, underground facilities, Geo-technical, fire fighting.
- iii. Project Management
- iv. Planning/Scheduling, Monitoring (Level-II)
- v. Material control, Buying, Inspection and Expediting, ware housing (during construction stage)
- vi. Preservation of critical equipment (compressors), Electronic, Instruments etc.
- vii. Construction Supervision discipline wise
- viii. Pre-commissioning/Commissioning
- ix. QA/QC
- x. HSE
- xi. Contract Administration

n) Major Construction Equipment Proposed to be deployed by the Bidder

Furnish Details of Major Construction Equipment proposed to be deployed for this work, as per **Exhibit-12**, including but not limited to the following:

- i. Concrete Batching Plant
- ii. Cranes more than 75 MT, 100 MT etc.
- iii. Concrete Pump Cars
- iv. Transit Mixers
- v. Diesel Generators
- vi. X-Rays, Gamma Rays, In-situ metalography equipment, spectrometers welding machine multi point stress relieving m/c and recorders

## 7.0 PQ BID EVALUATION CRITERIA

7.1 Bidder seeking pre-qualification shall meet the Minimum Pre-qualification Criteria stated under Invitation for Pre-qualification Bid.

7.2 While evaluating the Bidder's conformity with Experience Criteria, the following consideration shall be applied:

- (i) Only such works shall be taken into consideration, the details of which have been submitted by the Bidder (single bidder, consortium leader, consortium partners / engineering sub-contractor/ commissioning sub-contractor) as per Exhibit-1 along with copy of work order/notification for award and copy of proof of completion and operation as per PQ criteria as on due date of submission of PQ Bid.

- 
- (ii) Copy of work order/notification for award of work is a mandatory document, which establishes that the Bidder has been awarded a work, which is claimed to be meeting the Experience Criteria/ Technical Criteria.
- (iii) In case these mandatory documents are not enclosed with **Exhibit-1**. Such works shall not be considered in evaluation for meeting the Experience Criteria/ Technical Criteria.
- 7.3 ISPRL/ EIL will examine the PQ Bids for completeness and authenticity including whether the documents have been signed, whether they are complete and whether the details furnished are generally in order.
- 7.4 ISPRL/EIL reserve the right not to seek any additional information/clarification on documents submitted in support of Pre-qualification requirements and evaluate the PQ Bids on "As Received Basis".
- 7.5 FINANCIAL: Bidder is required to meet the Financial Criteria as mentioned under Invitation for Pre-qualification of Bidders.
- 7.6 While considering the Experience, Contract values indicated in foreign currencies other than US \$ shall be converted to US \$ at the exchange rate indicated in the contract and if not indicated, then authenticated exchange rates applicable on the date of award of work shall be considered for conversion. However, the Bidder shall submit the authenticated document for exchange rate. For annual turnover, exchange rate as indicated in the annual report shall be considered and if not indicated in the annual report, then exchange rate as applicable on last date of the respective accounting year shall be considered. Agency shall indicate the authenticated exchange rate(s) obtained from bank in their PQ Bid, as applicable.
- 7.7 Bidder intending to participate shall meet the pre-qualification criteria stated in 'Invitation for Pre-qualification'. Bidders who meet the Technical Criteria, Experience Criteria and Financial Criteria as mentioned in 'Invitation for Pre-qualification', and also meet/comply the requirements specified under various clauses of this Pre-qualification Booklet shall be pre-qualified.
- 7.8 ISPRL/EIL'S RIGHT TO ACCEPT ANY PQ BID AND REJECT ANY OR ALL PQ BIDS.
- ISPRL/EIL reserve the right to accept or reject any PQ Bid and to annul the Bidding process and reject all PQ Bids at any time without thereby incurring any liability to the affected Bidder(s) or any obligation to inform the affected Bidder(s) of the grounds for the OWNER's action.
- 7.9 CONTACTING THE OWNER/EIL : No Bidder shall contact ISPRL/EIL on any matter relating to its PQ Bid from the time of submission of PQ Bid, unless requested so in writing. Any effort by a Bidder to influence the

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OWNER/EIL in the Owner's decisions in respect of PQ Bid evaluation will result in the rejection of that Bidder's PQ Bid.

## **8.0 ESSENTIAL REQUIREMENTS**

Bidder to note that as a minimum, the following activities shall have to be performed by successful Bidder directly and shall not be sub-contracted:

- a) Overall Project Management
- b) Planning, Scheduling, Monitoring.
- c) Procurement Services including procurement.
- d) Quality Control
- e) Construction Management
- f) Maintenance Management
- g) All statutory obligations required during construction and execution of plant.

All Sub-contractors proposed to be deployed shall be subject to approval by ISPRL/EIL.

## **9.0 COMPLETION SCHEDULE**

Completion schedule for this work is 24 months plus 6 months for pre-commissioning/commissioning.

## **10.0 BASIS OF PRICES THROUGH REVERSE AUCTION**

OWNER/ EIL reserve the right to obtain the prices through the process of Reverse Auction from the finally qualified Bidders during the main bidding process.

# EXHIBITS

### EXPERIENCE DETAILS

Bidder (single bidder, consortium leader, consortium partners / engineering sub-contractor/ commissioning sub-contractor) shall furnish their experience details with reference to the work, which prequalify them in line with experience criterion mentioned in invitation for pre-qualification -

S.No.	DESCRIPTION	DETAILS	
1	Name of Project, location		
2	Description of Work		
3	Contract Value (a) Awarded (b) Final Executed		
4	Name of Owner, Postal Address, Phone/Fax No./ email		
5	Name of Consultant, Postal address, Phone/Fax No./ email		
6	Name of Units along with capacity		
7	Completion Dates	• Date of Award: _____	
		• Effective Date of Contract: _____	
		• Starting Date: _____	
		• Scheduled Completion date: _____	
		• Actual Completion Date: _____	
		• Delay in months, if any: _____	
		• Reasons for delay, if any : _____	
8	Scope of work executed by your organization (In case work executed as consortium, please indicate division of responsibility / split of work )	• Residual Process Design	
		• Detail Engineering	
		• Project Management	
		• Procurement services	
		• Procurement and Supply	
		• Construction	
		• Construction Management	
		• QA/QC	
		• Startup and Pre-commissioning	
		• Commissioning Assistance	

		<ul style="list-style-type: none"> <li>Commissioning</li> </ul>
9	Details of Sub-contractors along with scope of work, if any	
10	Completion Status	Specify Date of
		<ul style="list-style-type: none"> <li>Mechanical completion _____</li> </ul>
		<ul style="list-style-type: none"> <li>Commissioning _____</li> </ul>
		<ul style="list-style-type: none"> <li>Performance Guarantee Runs _____</li> </ul>
		<ul style="list-style-type: none"> <li>Handling over plant to owner _____</li> </ul>
		<ul style="list-style-type: none"> <li>Put into operation _____</li> </ul>
		Whether proof of PG test run enclosed
	Yes	No
11	Health and Safety Records	<ul style="list-style-type: none"> <li>Frequency Rate</li> </ul>
		<ul style="list-style-type: none"> <li>Severity Rate</li> </ul>
12	Whether following documents enclosed	<ul style="list-style-type: none"> <li>Copy of work order/notification of award specifying the contract value and min. capacity</li> </ul>
		<ul style="list-style-type: none"> <li>Copy of Proof of Completion</li> </ul>
		<ul style="list-style-type: none"> <li>A proof that plant has been under operation for last 1 year</li> </ul>
		<ul style="list-style-type: none"> <li>Proof of PG Test Run Completion</li> </ul>
		<ul style="list-style-type: none"> <li>Consortium agreement, if applicable</li> </ul>
13	Sourcing of Permanent materials	Countries such as _____
14	Type of Contract	Whether this work is for
		<ul style="list-style-type: none"> <li>GRASS ROOT Process unit handling hydrocarbon</li> </ul>
		<ul style="list-style-type: none"> <li>Pipeline Terminal handling hydrocarbon</li> </ul>
		<ul style="list-style-type: none"> <li>Petroleum, Oil and Lubricant (POL) Terminal</li> </ul>
		<ul style="list-style-type: none"> <li>Utilities &amp; Offsite of process plants handling hydrocarbons</li> </ul>
15	Basis of work Execution	<ul style="list-style-type: none"> <li>Individual</li> </ul>
		<ul style="list-style-type: none"> <li>Consortium</li> </ul>

**Note:**

1. Confirmed that information furnished as per this format is correct and incase of any original document is required by Owner/Consultant, the same shall be submitted by us for verification.
2. For each job detail that the bidder would like to submit for prequalification of his bid, shall be submitted on above exhibit, separately.

(Signature of Bidder)

**EXHIBIT-2**

**SUB: EXHIBIT FOR PAST EXPERIENCE FOR LAST 10 YEARS**

Sl. No.	Description of Work	Scope (Pm,E,P,Ps,C,.Cs,.Co)	INDIVIDUAL/ CONSORTIUM	POSTAL ADDRESS OF CLIENT	CONTRACT VALUE IN _____ OF CURRENCY) (NAME	STARTING DATE	SCHEDULED COMPLETION DATE	ACTUAL COMPLETION DATE	REASONS FOR DELAY, IF, ANY

EXHIBIT-2 FOR PAST EXPERIENCE :

Pm: Project Management; E: Engineering; P: Procurement; Ps: Procurement Services; C: Construction; Cs: Construction Supervision; Co: Commissioning

**SUBJECT: FINANCIAL DETAILS**

**A. AUDITED ANNUAL TURNOVER REPORTS FOR LAST 3 YEARS**

A.1	COMPANY	GROSS TURNOVER (US \$/ INR)	NE T PROFIT AFTER TAX (US \$/INR)	NET WORTH *  (US \$/INR)
	(i)	Financial Years.....to .....		
		or Year ending .....		
	(ii)	Financial Years.....to .....		
		or Year ending .....		
	(iii)	Financial Years.....to .....		
		or Year ending .....		
A.2	PARENT COMPANY GROUP (Consolidated Group Companies) (In case of applicability)	GROSS TURNOVER (US \$/ INR)	NE T PROFIT AFTER TAX (US \$/INR)	NET WORTH *  (US \$/INR)
	(i)	Financial Years.....to .....		
		or Year ending .....		
	(ii)	Financial Years.....to .....		
		or Year ending .....		
	(iii)	Financial Years.....to .....		
		or Year ending .....		

NET WORTH = CAPITAL PLUS RESERVE – ACCUMULATED LOSS

**B. PROJECTED ANNUAL TURNOVER**

**B.1 CURRENT ACCOUNTING YEAR**

- COMPANY US \$ \_\_\_\_\_

**B.2 NEXT ACCOUNT YEAR**

- COMPANY US \$ \_\_\_\_\_

C. MAIN BANKERS - NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
PHONE/FAX \_\_\_\_\_

D. CREDIT FACILITIES AVAILABLE WITH COMPANY \_\_\_\_\_  
(Banker's letter may be enclosed)

E. ENCLOSE AUDITED REPORT OF PROFIT & LOSS STATEMENT FOR THE PRECEDING THREE ACCOUNTING YEARS.

F. ENCLOSE RECENT SOLVENCY CERTIFICATE FROM BANKER

G. DEBT EQUITY RATIO

(i) Year ..... to ..... :

(ii) Year ..... to ..... :

(iii) Year .....to ..... :

H. ENCLOSE LETTER FROM YOUR BANKER/SELF THAT THE AGENCY IS NOT UNDER LIQUIDATION, COURT RECEIVERSHIP OR SIMILAR PROCEEDINGS

**SUB: EXHIBIT FOR PRESENT COMMITMENTS**

SL. NO	FULL POSTAL ADDRESS OF CLIENT & NAME OF OFFICER-IN-CHARGE	DESCRIPTION OF WORK CONTRACT VALUE (INR/CURRENCY OF QUOTE)	CONTRACT VALUE (INR/CURRENCY OF QUOTE)	STARTING DATE	SCHEDULED COMPLETION DATE	%AGE COMPLETION AS ON DATE	EXPECTED COMPLETION DATE	REMARKS

EXHIBIT – "4" FOR PRESENT COMMITMENTS PAGE NO.

**SUB : ORGANISATION CHART**

In this Exhibit, Bidder shall furnish the proposed Organisation Chart covering the following:

1. Home Office Support
2. Activities of work done at Home office
3. Contractor's office in India
4. Engineering Design Center
5. Residual Design & Detailed Engineering
6. Procurement Services
7. Sub-contracting
8. Planning, Scheduling & Monitoring
9. Site Organisation chart covering construction supervision (Discipline-wise). Quality Assurance and Quality Control (Discipline-wise), shipping and custom clearance, warehouse management and material control, field engineering, purchase, safety, billing and invoicing etc

**SUBJECT: METHODOLOGY OF EXECUTION**

In this Exhibit, Bidder shall detail out **Methodology of Execution** of work for the following:

In this Exhibit, Bidder shall furnish the following:

1. Methodology of execution of residual basic design and detailed engineering considering/ furnishing – (to be enclosed as Exhibit-6.1)
  - Availability of 3D modeling with PDS/PDMS software
  - Availability of latest IT communication system and Engineering Documentation Management & control & Transfer of deliverables
  - Exposure of engineering company for above software
  - Experience of engineering company for similar unit or more stringent unit
  - Key personnel to be deployed at engineering office.
  - Key personnel to be deployed by main bidder at Bidder's design office, for review, approval and monitoring.
  - Engineering for Package Units
2. Methodology of Construction Execution covering – (To be enclosed as Exhibit-6.2).
  - Monsoon working
  - Extent of mechanisation of construction processes/equipment
  - Expediting of material/equipment

**SUBJECT: COMPANY'S ORGANISATION DETAILS**

In this Exhibit, Bidder shall detail out Company's Organisation Details detailing out specifically.

1. Whether the Company is :
  - A - Public / Pvt. Limited Company
  - B - Partnership
  - C - Sole proprietor
  
2. Whether any change in Company's Ownership was there, during last 10 years, if yes then when:
  - A - No Change
  - B - Changes upto 2 times during last 10 years
  - C - Changes more than 3 times during last 10 years
  
3. Whether the Company is
  - A - Parent Company
  - B - Affiliate Company

**SUBJECT: QUALITY ASSURANCE DETAILS**

In this Exhibit, Bidder shall submit their Quality Assurance/Quality Control Programme including the Quality Policy and International Accreditation Details, covering the following:

- (1) If the company have well documented Quality Assurance /Quality Control System, furnish the following documents:
  - a) Index of QA/QC system
  - b) Various sample formats including the following:
    - Typical format for QA/QC for piping engineering work
    - Typing formats for QA/QC for inspection of tanks and vessels after erection at site.
    - Typical format for concreting work at site.
    - Format QA/QC for erection, alignment, grouting of rotary equipment such as large pumps, compressors.
- (2) Copy of International Accreditation, if any.
- (3) Organogram of QA/QC system of the Company/Bidder for all phases of work.
- (4) All system procedure and manual for constructability, operability and maintainability of all construction facilities during the phases of construction.

**SUBJECT: HEALTH AND SAFETY**

1. In this Exhibit, Bidder shall submit the following:
  - a) Index of the HSE Policy
  - b) Various procedures including the following:
    - Procedures for accident reporting, logging, follow up actions and investigations.
    - Procedure for implementation of safety requirements at site.
2. Safety awards during last 10 years
3. Safety records for the last three years
  - Frequency Rate
  - Severity Rate

Note: Frequency Rate=  $\frac{\text{No. of Loss time Accidents}}{\text{Total Manhours worked}} \times 10^6$

Severity Rate =  $\frac{\text{No. of Man Days lost Due to Accidents}}{\text{Manhours worked}} \times 10^6$

**SUBJECT: LITIGATION/ ARBITRATION DETAILS**

In this Exhibit, Bidder shall furnish details of litigation/arbitration cases of the Bidder during the last 5 years.

**SUBJECT: QUALIFICATION AND EXPERIENCE OF TECHNICAL PERSONNEL**

In this Exhibit, Bidder shall furnish qualification and experience details of its personnel especially for the following areas:

- Process
- Engineering
- Project Management
- Planning/Scheduling
- Procurement services
- Inspection and expediting
- Construction Supervision
- Pre-commissioning/Commissioning
- QA/QC Safety
- Safety
- Contract Administrator

This shall be submitted in the following format:

<b>Sl. No.</b>	<b>Discipline</b>	<b>Qualification</b>	<b>No. of Persons with Experience</b>
			<ul style="list-style-type: none"><li>• A-Upto 10 years</li><li>• B- More than 10 years and upto 15 years</li><li>• C-More than 15 years and upto 20 years</li><li>• D-More than 20 years</li></ul>

This is very important information required for assessing Bidder's technical personnel. This shall be furnished only for those employees who are on permanent role in Bidder's Organization and are qualified engineer and are available to the Bidder for carrying out LSTK Contracts. The proposed personnel for various disciplines should have specific experience in similar works.

**SUBJECT: MAJOR CONSTRUCTION EQUIPMENTS OWNED BY THE COMPANY**

In this Exhibit, Bidder shall furnish list of Discipline wise list of Equipment proposed to be deployed by the Company including but not limited to the following:

- Concrete Batching Plant
- Cranes of capacity 75 MT, 100 MT, etc.
- Concrete pump cars
- Transit Mixers
- Diesel Generators
- Induction Pipe Bending Plant
- X-Rays, Gamma Rays, In-situ metalography equipment, spectra meters.
- Multipoint stress relieving m/c and recorders.

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EIL-1641-509 Rev. 1 A4-210 x 297.

# CHECK LIST FOR PQ BID SUBMISSION



**ENGINEERS INDIA LIMITED**  
NEW DELHI

6838-04 pq ch lst

**PREQUALIFICATION  
CHECKLIST**

**DOCUMENT NO.**

**6838-PQ-CL-04**

Page 1 of 4

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**SUBJECT: CHECK LIST FOR PQ BID SUBMISSION**

Bidder is requested to fill this Check List and ensure that all details/ documents as mentioned in the Prequalification Booklet/ Document is submitted alongwith their PQ Bid. Please tick the box and ensure compliance and specify the Page no. of PQ Bid submitted.

**A. UNDER SECTION-1**

A.1 Letter of submission

Submitted

Page No\_\_\_\_\_

A.2 Check List

This check list duly filled in and stamped,

Submitted

Page No\_\_\_\_\_

A.3 Power of Attorney in favour of signatory of PQ Bid.

Submitted

Page No.\_\_\_\_\_

A.4 Consortium agreement (if applicable)

Submitted

Page No.\_\_\_\_\_

**B. UNDER SECTION-2**

B.1 Specific Experience Details as per Exhibit-1 along with copy of work order/ award of work, copy of Proof of completion and that the plant is in operation or PG test run has been conducted.

Submitted

Page No.\_\_\_\_\_

B.2 Specify name of projects for which Experience Details as per Sl.no.B.1 has been submitted :

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B.3 Past Experience, General, as per Exhibit-2

Submitted

Page No\_\_\_\_\_



**ENGINEERS INDIA LIMITED**  
NEW DELHI

6838-04 pq ch lst

**PREQUALIFICATION  
CHECKLIST**

**DOCUMENT NO.**

**6838-PQ-CL-04**

Page 2 of 4

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B.4 Financial Details as per Exhibit-3

Submitted  Page No\_\_\_\_\_

B.5 Present Commitments as per Exhibit-4

Submitted  Page No\_\_\_\_\_

B.6 Audited Balance sheet including Profit and Loss account for the Last three years

Submitted

Submitted for the years

1.-----

2.-----

3.-----

B.7 Fresh solvency certificate Issued by the Banker

Submitted  Page No\_\_\_\_\_

B.8 Any other document, Furnish details

Submitted  Page No\_\_\_\_\_

B.9 Confirmation regarding not under Liquidation, court receivership or similar proceeding

YES/ NO Page No \_\_\_\_\_

C. **UNDER SECTION-3**

C.1 Project Execution Plan, submitted Comprising of the following

C.1.1 Organization Chart as per Exhibit - 5

Page No.\_\_\_\_\_



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C.1.2 Methodology of Execution (Engineering and Construction) as per Exhibit - 6

Page No.\_\_\_\_

**D. UNDER SECTION-4**

D.1 Company's Organization Details as per Exhibit-7

Submitted

Page No.\_\_\_\_

**E. UNDER SECTION-5**

E.1 Quality Assurance Details as per Exhibit-8

Submitted

Page No.\_\_\_\_

**F. UNDER SECTION-6**

F.1 Health and Safety details as per Exhibit-9

Submitted

Page No.\_\_\_\_

**G. UNDER SECTION-7**

G.1 Details regarding litigation/arbitration Proceedings as per Exhibit-10

Submitted

Page No.\_\_\_\_

**H. UNDER SECTION-8**

H.1 Qualification and experience of Technical Personnel as per Exhibit-11

Submitted

Page No.\_\_\_\_

**I. UNDER SECTION-9**

I.1 Details of major construction equipments proposed by the Bidder as per Exhibit-12

Submitted

Page No.\_\_\_\_

J. One copy of PQ Booklet (Bidder shall take printout from 'CD' for PQ Document) duly signed and stamped on each page.

Submitted

Page No.\_\_\_\_

(Signature of Bidder)

