



INDIAN STRATEGIC PETROLEUM RESERVES LIMITED

STRATEGIC STORAGE OF CRUDE OIL PROJECT
at
MANGALORE, KARNATAKA, INDIA

(INTERNATIONAL COMPETITIVE BIDDING)

(PQ DOCUMENT NO.: 6936/PQ-015/09 -10/RKS/04)

PRE-QUALIFICATION DOCUMENT
FOR
PROCESS AND UTILITY FACILITIES AT TOP SIDE AND
INSIDE CAVERN ON EPCC BASIS

PREPARED AND ISSUED BY:

इंजीनियर्स
इंडिया लिमिटेड
(भारत सरकार का उपक्रम)



ENGINEERS
INDIA LIMITED
(A Govt. of India Undertaking)

COST OF PQ DOCUMENT
FOR INDIAN BIDDER : INR 20,000/-
FOR FOREIGN BIDDER : US \$ 425 or INR 20,000/-

MASTER INDEX

NAME OF WORK: **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 MANGALORE,
KARNATAKA, INDIA**

PQ DOCUMENT NO. **6936/PQ-015/09-10/RKS/04**

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**ISSUE LETTER OF PQ DOCUMENT
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 MANGALORE,
KARNATAKA, INDIA**

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 Document/ Booklet i.e. US \$ 425/- (US Dollars four hundred twenty five only) or 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:

DGM (C&P)
ENGINEERS INDIA LIMITED



**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 MANGALORE,
KARNATAKA, INDIA
(PQ DOCUMENT NO.: 6936/PQ-015/09-10/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 Mangalore, Karnataka (Part-B) on EPCC basis.

2.0 General:

Indian Strategic Petroleum Reserves 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 Mangalore for approximately 1.5 MMT. ISPRL has appointed Engineers India Limited as the Project Management Consultant for this Project.

The storage facility shall consist of two separate storage units for storage of two types of crude. Each storage unit shall have two legs in plan and shall have 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 unit.

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. Part-B shall consist of above ground facilities including all shaft and cavern equipment, Cross country pipeline and intermediate booster station. The scheduled completion time for Part B i.e. Process and Utility Facilities at Top Side and Inside Cavern for Crude Oil Strategic Storage Project at Mangalore, Karnataka (Part-B) **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 supply of materials, erection pre-commissioning, commissioning and performance test for the Part B 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 Mangalore, Karnataka,(Part-B) 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 & utilities**
 - N₂ Storage /Inert Gas Storage Unit/**Flue gas Generator**
 - Crude Heating System and heat exchanger
 - Water Softening and Boiler System
 - Service Water System
 - Potable Water System
 - Fire water networks with pumps and tanks
 - Steam system
 - Drainage and sewerage system
 - Effluent Treatment Plant
 - LPG storage system
 - 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 Communication & provision for extending communication to Intermediate booster station & Padur cavern.
 - Public Address System
 - Instrument and Plant Air System
 - Crude Receipt facility
 - Despatch Facility consisting of submersible crude pumps and Booster pumps.
 - Diesel generator sets.
 - Access control system
 - Supply and laying of OFC cable (for telecommunication and SCADA) between Mangalore cavern and intermediate booster station.
- VII. **TOP SIDE BUILDINGS & OTHER WORKS**
 - Site grading, Compound wall, 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 cover(RCC slab/structural steel and grating)

VIII. INSIDE CAVERN SHAFT FACILITIES

- Pump casing, submersible crude pumps and Seepage water pumps
- Still wells for instrumentation and instruments
- Concrete plugs on vertical section/shaft
- Supporting of casings of pumps and instruments

IX. WITHIN CAVERN FACILITIES:

- Concrete encased perforated piping for crude heating
- Concrete barrier in inlet tunnels.
- Final cleaning of cavern
- Profiling of cavern ,calibration of cavern and preparation of strapping table for monitoring and recording of product volumes in control room
- Charging of water and commissioning of water curtain
- Cavern tightness testing, inertisation and commissioning.

X. INTERMEDIATE BOOSTER STATION

- Electrical Substation building ,Electrical system including electrical distribution system, transformer panels cables etc
- Control Room building, Control and safety system (ESD, DCS, Fire and Gas Detection System).
- Instrumentation including supply of instruments cables etc
- CCTV System
- Scrapper Station
- Booster Pumps and pump house shed
- EOT cranes in pump house.
- Fire Water Network & Tanks
- HVAC, Pressurization systems
- Civil Works In Booster Station like Site grading, Plant and non plant Building, Compound Wall ,watch towers ,gates roads and drains etc.
- Telephone communication system for communicating between booster station, Mangalore Cavern and future provision for extending of communication with Padur Cavern and sectionalizing valve station
- UG cross country Pipeline from Intermediate Booster Station to cavern and tap off provision for Padur pipeline(approx size 42")
- Pipeline from tap off from existing MRPL Pipeline to Intermediate Booster station. (Approx size 48"/42")
- Cathodic protection (TCP/PCP) of the pipelines.
- Pig launcher and receiver.
- Corrosion inhibition system

The above ground work Contractor (Part-B) shall interface with the underground Contractor (Part -A) for installation of plugs/ equipments in the shafts and INSIDE the cavern and cavern tightness testing.

4.0 DEFINITIONS

The "Bidder" shall mean either

- i. EPCC Contractor in individual capacity.

OR

- ii. 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 off sites, 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 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 bids.

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 does not possess requisite experience in residual basic and detailed engineering, subcontracting will be acceptable subject to engaging an engineering sub contractor 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 does not possess requisite experience for pre commissioning/commissioning, subcontracting for pre-commissioning / commissioning will be acceptable subject to engaging an 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 requirements of clauses **5.1.1(b) and 5.1.1(c)**.

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 1100 Million or US\$ 23 Million
or
- ii) Two Contracts each of minimum value of INR 700 Million or US\$ 15 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 1500 Million for Indian Bidders or US \$ 32 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.

5.3 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 02-07-2009 to 11-08-2009 on payment of non-refundable Document cost of US \$ 425 (US Dollars Four Hundred Twenty 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 22-07-2009**
- 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.

- 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 12-08-2009**. 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 **12-08-2009 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

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INSTRUCTIONS FOR PRE-QUALIFICATION BID SUBMISSION

STRATEGIC STORAGE OF CRUDE OIL PROJECT
FOR
M/S INDIAN STRATEGIC PETROLEUM RESERVES LIMITED



ENGINEERS INDIA LIMITED
NEW DELHI

6936 PQ 04 ITB

**INSTRUCTIONS FOR PQ
BID SUBMISSION**

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1.0 PROJECT DESCRIPTION

Indian Strategic Petroleum Reserves 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 Mangalore for approximately 1.5 MMT. ISPRL has appointed Engineers India Limited as the Project Management Consultant for this Project.

The proposed site is located on a hill namely Kalvar Padavu to the east of the MRPL refinery area, and is approximately 12 km west of Mangalore Airport and 8 Km east of National highway 17. The Mangalore city is about 15 km from the site. The approximate position is North 12° 59' and East 72° 52'. The hill is striking E-W with length approximately 1.5 km, width 0.9 km and the highest elevation level being 83 m above sea level (Refer Figure-1).

The storage facility shall consist of two separate storage units for storage of two types of crude. Each storage unit shall have two legs in plan and shall have 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 unit.

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. Part-B shall consist of above ground facilities including all shaft and cavern equipment, Cross country pipeline and intermediate booster station. **The scheduled completion time for Part B i.e. Process and Utility Facilities at Top Side and Inside Cavern for Crude Oil Strategic Storage Project at Mangalore, Karnataka 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 supply of materials, erection pre-commissioning, commissioning and performance test for the Part B 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 Mangalore, Karnataka,(Part-B) including all performance tests, from the technically and financially sound agencies, meeting the requirements as specified in the Pre-Qualification booklet/Document.

2.0 DEFINITIONS

2.1 'Owner' shall mean Indian Strategic Petroleum Reserves Limited (OWNER), a wholly owned subsidiary of Oil Industry Development Board, Ministry of Petroleum & Natural Gas, Government of India, 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



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NEW DELHI**

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- 2.2 'Consultant' shall mean Engineers India Ltd., a company incorporated in India and having its registered Office at EI Bhawan, 1, Bhikaiji Cama Place, New Delhi – 110 066 (India) and shall include its successors and assigns.
- 2.3 'Bidder' shall mean the agency that has submitted the PQ Bid in response to PQ Booklet/ Document.
- 2.4 'Pre-qualified Bidder' shall mean the Bidder who has been pre-qualified by Owner for issue of the Bidding Document.
- 2.5 'PQ Bid' shall mean the bid submitted by Bidder(s) for Pre-qualification, for issue of the Bidding Document for Process and Utility Facilities at Top Side and Inside Cavern for Crude Oil Strategic Storage Project at Mangalore (Part-B) in response to this PQ DOCUMENT.
- 2.6 'Bid' shall mean the bid submitted by the pre-qualified Bidder after issue of the Bidding Document.
- 2.7 'Bidding Document' shall mean the document issued to the Pre-qualified Bidder for submission of their Bid.
- 2.8 'Technical Criteria' shall mean the experience of successfully completed jobs defined in Invitation for Pre-qualification Bid. 'Experience Criteria' under 'Commercial Criteria' shall mean the experience of successfully completed jobs defined in Invitation for Pre-qualification Bid.
- 2.9 '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

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 & utilities**
 - N₂ Storage /Inert Gas Storage Unit/ Flue gas Generator
 - Crude Heating System and heat exchanger
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 - Fire water networks with pumps and tanks
 - Steam system
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 - Effluent Treatment Plant
 - LPG storage system
 - Metering system
 - Flare and blow down



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- 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
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- HVAC, Pressurization systems
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VIII. INSIDE CAVERN SHAFT FACILITIES

- Pump casing, submersible crude pumps and Seepage water pumps
- Still wells for instrumentation and instruments
- Concrete plugs on vertical section/shaft
- Supporting of casings of pumps and instruments

IX. WITHIN CAVERN FACILITIES:

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- Concrete barrier in inlet tunnels.
- Final cleaning of cavern
- Profiling of cavern ,calibration of cavern and preparation of strapping table for monitoring and recording of product volumes in control room
- Charging of water and commissioning of water curtain
- Cavern tightness testing, inertisation and commissioning.

X. INTERMEDIATE BOOSTER STATION

- Electrical Substation building ,Electrical system including electrical distribution system, transformer panels cables etc
- Control Room building, Control and safety system (ESD, DCS, Fire and Gas Detection System).
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- CCTV System
- Scrapper Station
- Booster Pumps and pump house shed
- EOT cranes in pump house.



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INSTRUCTIONS FOR PQ
BID SUBMISSION

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- Fire Water Network & Tanks
- HVAC, Pressurization systems
- Civil Works In Booster Station like Site grading, Plant and non plant Building, Compound Wall ,watch towers ,gates roads and drains etc.
- Telephone communication system for communicating between booster station, Mangalore Cavern and future provision for extending of communication with Padur Cavern and sectionalizing valve station
- UG cross country Pipeline from Intermediate Booster Station to cavern and tap off provision for Padur pipeline(approx size 42")
- Pipeline from tap off from existing MRPL Pipeline to Intermediate Booster station. (Approx size 48"/42")
- Cathodic protection (TCP/PCP) of the pipelines.
- Pig launcher and receiver.
- Corrosion inhibition system

The above ground work Contractor (Part-B) shall interface with the underground Contractor (Part -A) for installation of plugs equipments in the shafts and INSIDE the cavern and cavern tightness testing.

4.0 SCOPE OF SUPPLY

4.1 Supply of all the material required to execute the work is included in the scope of the bidder. The supplies shall be in conformance to the standards and specifications as per bidding document.

5.0 TERMS AND CONDITIONS

5.1 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. OWNER/EIL will in no case be responsible or liable for those costs and expenses regardless of the outcome of the Bidding process.

5.2 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 local chamber of commerce in bidders' country. Responsibility for correctness in translation shall lie with the Bidder.



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5.3 COST OF MAIN BIDDING DOCUMENT

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

5.4 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 main bidding stage. However, this clause shall not apply to its proposed sub-contractor for Engineering sub-contractor/ Pre-commissioning-Commissioning Sub-contractor.

5.5 OWNER'S RIGHT

5.5.1 OWNER/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.

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

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

6.0 PREPARATION / SUBMISSION OF PQ BIDS

6.1 PQ BID REQUIREMENTS

6.1.1 Bidder is required to submit PQ Bid in the format as given in Exhibits 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.

6.1.2 The Prequalification requirements are explicitly stated in this Document/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.

6.1.3 The PQ Bid shall be submitted with all details as per **checklist**.

6.2 SUBMISSION OF PQ BIDS

6.2.1 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 at Clause 6.0. 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**

TELEPHONE NO. 0091-11-26102121

FAX NO.0091-11-26191714/ 26167664



**ENGINEERS INDIA LIMITED
NEW DELHI**

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NEW DELHI - 110066 (INDIA). E-mail: r.k.sabharwal@eil.co.in

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

A copy of PQ Document/Booklet, after taking print out from `CD' shall be signed and stamped on each page and returned back alongwith the PQ Bid as a token of acceptance.

6.2.2 Salient information to be submitted by Bidder(s) is mentioned under para 6.3 to 6.13 below.

6.3 EXPERIENCE DETAILS

6.3.1 Bidder shall furnish Experience Details in line with Technical Criteria and Commercial Criteria mentioned under Invitation for Pre-qualification Bid. The Experience details of all such works, which Bidder considers are meeting Technical criteria shall be submitted as per Exhibit-1 & 2 [including details for each of the consortium members/ and sub-contractor(s), if any]. Copy of detailed work order/notification for award of work / contract document and copy of proof of completion, commissioning and / or PG Test run has been conducted shall be substantiated / authenticated along with Experience Details as per Exhibit-1.

6.4 FINANCIAL DETAILS

Bidder shall furnish the following:

- All information as per Exhibit-3.
- Audited balance sheets and Profit & Loss Account for the last three preceding years.

6.5 PRESENT COMMITMENTS

Bidder shall furnish Details of Present Commitments as per Exhibits – 4.

6.6 PROJECT EXECUTION PLAN

Bidder shall furnish proposed Organisation charts as per Exhibit-5 with the following details -

- i) Organisation Chart - This shall include organisational 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 and Project Control team, Site Organization and Field Engineering set up. Key personnel shall have adequate experience in Project implementation of similar work.
- ii) Organization structure for carrying out the detailed Engineering work.
- iii) Organisation chart to include procurement services including purchase, sub-contracting and contract administration, inspection, expediting, third party inspection, etc
- iv) Overall organization chart to clearly indicate the split in scope of work among different consortium members/ Sub-contractors [such as Engineering sub-contractor/ Commissioning Sub-contractor etc. (as applicable)] with interface among the various disciplines



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- 6.7 METHODOLOGY OF EXECUTION.**
 Bidder shall furnish their methodology of execution as per Exhibit-6 for
 a) Detailed Engineering Work
 - Detail Engineering at Home Office
 - Field Engineering
 Bidder shall furnish his methodology for detailed engineering for this project in brief.
 b) Construction and Execution
 - Site Facilities
 - Extent of Mechanisation
 Bidder shall maximize mechanisation of construction activities by deploying large scale construction equipments of required capacity for drilling, blasting, hauling, scaling, muck handling, disposal, grouting, rock support, etc.
 - Sub-contracting philosophy
 Bidder shall identify the works which are proposed to be sub-contracted along with the number of sub-contractors proposed to be engaged with their brief scope of work.
 c) Risk Management System
- 6.8 COMPANY'S ORGANISATIONAL DETAILS**
 Bidder shall specify Organisational Details as per Exhibit-7.
- 6.9 QUALITY ASSURANCE**
6.9.1 Please furnish the details of Quality Assurance System as per Exhibit-8:
6.9.2 Bidder to furnish international accreditation such as ISO, ASME, etc. along with copies of certificates.
6.9.3 Please furnish Organogram of QA/QC system of your organisation for all phases of work, such as, engineering, procurement & construction.
- 6.10 HEALTH AND SAFETY & ENVIRONMENT**
6.10.1 Please furnish the details of HSE System as per Exhibit-9.
- 6.11 LITIGATION/ARBITRATION**
6.11.1 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.
- 6.12 QUALIFICATION AND EXPERIENCE OF TECHNICAL PERSONNEL**
 Please furnish details of specialists in various fields having experience in underground rock cavern/ tunnelling projects, giving their CV in brief as per Exhibit-11
- 6.13 MAJOR CONSTRUCTION EQUIPMENT OWNED BY THE BIDDER**
 Furnish Details of Major Construction Equipment owned and proposed to be used for this project by the bidder, as per Exhibit-12.



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- 6.14 CONSORTIUM AGREEMENT, POWER OF ATTORNEY IN CASE OF A CONSORTIUM BID**
- Bidder shall submit Consortium Agreement as per the format provided in the PQ Document, in case of a consortium Bid. The consortium member(s) shall also submit power of attorney in favour of Bid signatory.
- 7.0 PQ BID EVALUATION CRITERIA**
- 7.1 Bidder seeking pre-qualification shall meet the 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:
- 7.3 Only such works shall be taken into consideration, the details of which have been submitted by the Bidder as per Exhibit-1 along with copy of work order/notification for award and copy of proof of completion, Certificate(s) of satisfactory operation of commissioned plant(s) from Owners of the referred units/facilities, and all supportive documents to fulfil the pre-qualification criteria indicated in Invitation for Pre-qualification.
- (i) 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.
 - (ii) Submission of adequate proof of Completion is mandatory requirement, which establishes that the work under reference has been completed, handed over to the Owner.
 - (iii) In case Bidder does not meet the requirements of the clause 5.1.1 of Technical criteria w.r.t. engineering and pre-commissioning & commissioning activities as provided in Invitation for Pre-qualification, Bidder shall submit the details of Services of qualified Engineering Agency/ pre-commissioning & commissioning agency who meets the respective criteria as per Clause 5.1.1 of Invitation for Pre-qualification.
 - (iv) Submission of memorandum of understanding with the Sub-contractor for the performance of engineering/ pre-commissioning & commissioning works, as applicable.
 - (v) In case these mandatory documents are not enclosed with Exhibit-1, such works shall not be considered in evaluation for meeting the Experience Criteria.
- 7.4 OWNER/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.
- 7.5 OWNER/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".



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7.6 FINANCIAL

Bidder is required to meet the Financial Criteria as mentioned under Invitation for Pre-qualification of Bidders.

7.7 While considering the Financial Statements / Annual Turnover, the figure(s) indicated in foreign currencies other than US \$ shall be converted to US \$ at the exchange rate as indicated in the audited Financial Statements / Annual Report and if not indicated in the Financial statements / Annual Report then exchange rates 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.

7.8 Bidder intending to participate shall meet the pre-qualification criteria stated in 'Invitation for Pre-qualification'. Bidders who meet the Technical 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.

7.9 OWNER'S RIGHT TO ACCEPT ANY PQ BID AND REJECT ANY OR ALL PQ BIDS

7.10 OWNER/EIL reserves 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.

7.11 CONTACTING THE OWNER/EIL

7.11.1 No Bidder shall contact OWNER/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 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

8.1 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) Cavern Testing
- g) All statutory obligation required during construction execution of project as per contract.

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



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9.0 TENTATIVE COMPLETION SCHEDULE

Tentative completion schedule for this work is 26 (Twenty Six) months for mechanical completion and pre-commissioning plus 3 (Three) months for commissioning and performance guarantee.



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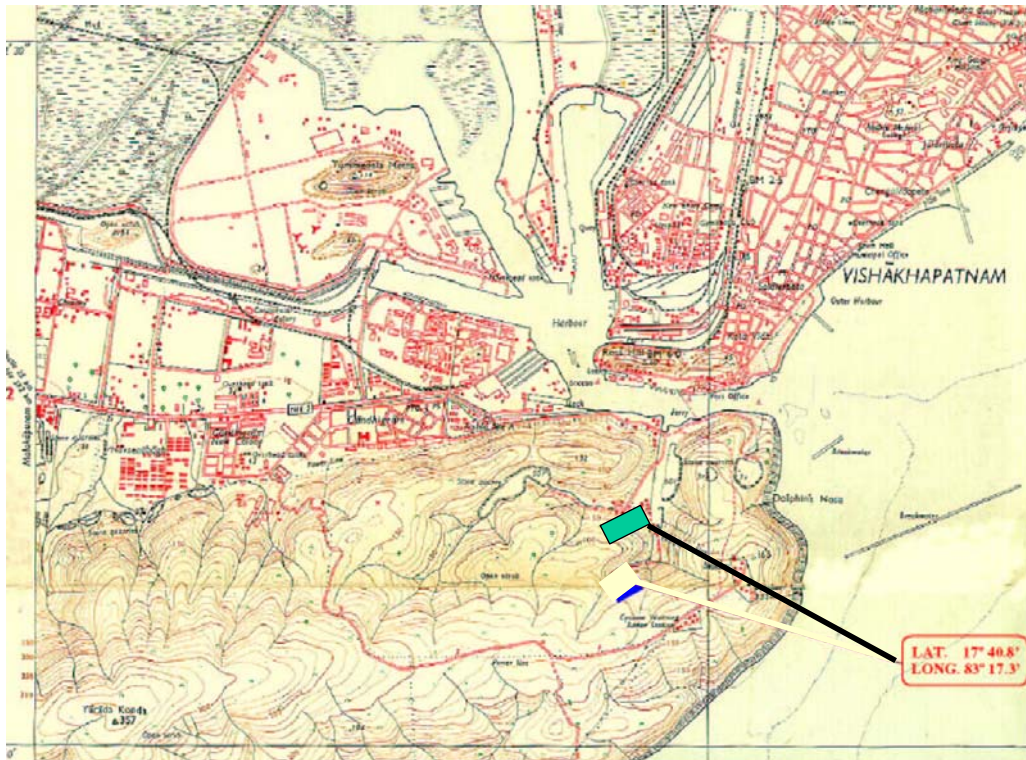
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10.0 FIGURE-1



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EXHIBITS

EXPERIENCE DETAILS

Bidder (single bidder, consortium leader, consortium partners / sub-contractor (s) 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
• Commissioning		

9	Details of Sub-contractors along with scope of work, if any	
9a	For Engineering Services	
9b	For Pre commissioning/commissioning	
10	Completion Status	Specify Date of
		• Mechanical completion _____
		• Commissioning _____
		• Performance Guarantee Runs _____
		• Handling over plant to owner ____
		• Put into operation _____
		Whether proof of PG test run enclosed
Yes	No	
11	Health and Safety Records	• Frequency Rate
		• Severity Rate
12	Whether following documents enclosed	• Copy of work order/notification of award specifying the contract value and min. capacity
		• Copy of Proof of Completion
		• A proof that plant has been under operation for last 1 year
		• Proof of PG Test Run Completion
		• Consortium agreement, if applicable
13	Sourcing of Permanent materials	Countries such as _____
14	Type of Contract	Whether this work is for
		• GRASS ROOT Process unit handling hydrocarbon
		• Pipeline Terminal handling hydrocarbon
		• Petroleum, Oil and Lubricant (POL) Terminal/Depots/Installation of central tank farm
		• Utilities & Offsite of process plants handling hydrocarbons
15	Basis of work Execution	• Individual
		• Consortium

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 _____ (NAME OF CURRENCY)	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 \$/INR_____

B.2 NEXT ACCOUNT YEAR

- COMPANY US \$/INR_____

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) Years ... To.....:

(ii) Years ... To.....:

(iii) Years ... To.....:
:

H. ENCLOSE LETTER FROM YOUR BANKER/SELF THAT THE AGENCY IS NOT UNDER LIQUIDATION, COURT RECEIVERSHIP OR SIMILAR PROCEEDINGS (Applicable for Single Bidder as well as all members of consortium)

EXHIBIT-4

SUB: EXHIBIT FOR PRESENT COMMITMENTS(As on date of submission of PQ bid)

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 mechanization 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
 - Typical 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:

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

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.

CONSORTIUM AGREEMENT

(On Non-judicial stamp paper of appropriate value)

This Consortium Agreement executed on this..... Day of..... between M/s....., a company incorporated under the law of ----- and having its registered/ principal office at..... (herein after called the `Partner-I'/ `Lead Partner' which expression shall include its successors, executors and permitted assigns), M/s....., a company incorporated under the laws of ----- and having its registered/ principal office at (herein after called the `Partner – II'/ `Second Partner' which expression shall include its successors, executors and permitted assigns), and M/s....., a company incorporated under the laws of ----- and having its registered/ principal office at (herein after called the `Partner – III'/ `Third Partner' which expression shall include its successors, executors and permitted assigns)for the purposes of making a bid and entering into a contract (in case of award) in response to bid document no..... for the work of (name of project) of M/s..... (herein after called the `Owner').

WHEREAS, the Owner invited bids vide its PQ bid document no. for the work of

AND WHEREAS as per tender documents, Consortium entities will also be considered by the Owner provided they meet the specific requirements in that regard. As a pre condition of bidding documents, the Consortium bidder shall provide in its bid a Consortium Agreement in an acceptable format in which the partners to the Consortium are jointly and severally liable to the Owner to bind themselves to the bid conditions accept the contract award, if selected and perform all the contractual obligations thereto.

AND WHEREAS the bid is being submitted to the Owner vide our proposal dated based on the Consortium Agreement being these presents and the bid with its bid forms and submission documents, in accordance with the requirement of tender conditions and requirements have been signed by both the partners and submitted to the Owner.

NOW THIS INDENTURE WITNESSETH AS UNDER:

In consideration of the above premises and agreements both the partners to this Consortium do hereby now agree as follows:

1. We the partners in the Consortium hereby confirm that the name and style of the Consortium shall be..... Consortium.

2. In consideration of the bid submission by us to the Owner and the award of contract by the Owner to the Consortium (if selected by the Owner), we the partners to the Consortium, hereby agree that the Partner – I (M/s.....) shall act as the lead partner for self, and for and on behalf of Other Partner(s) and further declare and confirm that we shall jointly and severally be bound unto the Owner for execution of the contract in accordance with the contract terms and shall jointly and severally be liable to the Owner to perform all contractual obligations including technical guarantees. Further, the Lead Partner is authorized to incur liabilities and receive instructions for and on behalf of any or all partners of the CONSORTIUM and the entire execution of the Contract including receiving/ making payments, shall be done exclusively by the Lead Partner.
3. In case of any breach of the said Contract by any of the partners of the CONSORTIUM, we hereby agree to be fully responsible for the successful execution/ performance of the Contract in accordance with the terms of the Contract.
4. Further, if the Owner suffered any loss or damage on account of any breach of the Contract or any shortfall in the completed equipment/ plant, meeting the guaranteed performance parameters as per the technical specifications/ contract documents, the Other Partner(s) of these presents undertakes to promptly make good such loss or damage caused to the Owner, on the Owner's demand without any demure. It shall neither be necessary nor obligatory on the part of the Owner to proceed against the Lead Partner to these presents before proceeding against the Other Partner(s).
5. The financial liability of the partners to this Consortium Agreement, to the Owner with respect to the any or all claims arising out of the performance or non-performance of the Contract shall, however be not limited in any way so as to restrict or limit the liabilities of either of the partner.
6. It is expressly understood and agreed between the partners to this agreement that the responsibilities and obligations of each of the partners shall be as delineated in 'Appendix I' to this agreement. It is further agreed by the partners that the above sharing of responsibilities and obligations shall not in any way be a limitation of the joint and several responsibilities of the partners under the Contract.
7. This Consortium Agreement shall be governed, construed and interpreted in accordance with Laws of India courts of shall have exclusive jurisdiction in all matters arising thereunder.
8. In case of award of contract, we the partners to this Consortium Agreement do hereby agree that we shall furnish the contract performance guarantee in favour of the Owner from a bank acceptable/ approved by the Owner for a value as stipulated in the Contract Award and such guarantee shall be in the names of all the partners of the Consortium.
9. It is further agreed that this CONSORTIUM Agreement shall be irrevocable and shall form an integral part of the Contract and shall continue to be enforceable till the Owner discharges the same. It shall be effective date first above mentioned for all purposes and intents.

IN WITNESS WHEREOF, the partners to this Consortium agreement have, through their respective authorized representatives, have executed these presents and affixed their hands

and common seal of their respective companies on the day, month and year first abovementioned.

For M/s.
(.....Partner

1. Common Seal of
M/S.
has been affixed in my/ our presence
pursuant to Board Resolution dated
.....
Signature.....

Designation

.....
(Signature of authorised Representative)

Name :

Designation:

For M/s.
(.....Partner - II

2. Common Seal of
M/S.
has been affixed in my/ our presence
pursuant to Board Resolution dated
.....
Signature.....

Designation

.....
(Signature of authorised Representative)

Name :

Designation:

For M/s.

(.....Partner - III

3. Common Seal of
M/S.
has been affixed in my/ our presence
pursuant to Board Resolution dated
.....
Signature.....

Designation

.....
(Signature of authorised Representative)

Name :

Designation:

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CHECK LIST FOR PQ BID SUBMISSION



ENGINEERS INDIA LIMITED
NEW DELHI

6936-04 pq ch lst

**PREQUALIFICATION
CHECKLIST**

DOCUMENT NO.

6936-PQ-CL-04

Page 1 of 5

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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 i. Power of Attorney in favour of signatory of PQ Bid (in case of Consortium bid, other member(s) also required to give power of attorney in favour of bid signatory).

Submitted

Page No.____

ii. Power of Attorney in favour of signatory of PQ Bid.

Submitted

Page No.____

A.4 Consortium Agreement (if applicable).

Submitted

Page No.____

A.5 Memorandum of Understanding with the Sub-contractor (as applicable).

i. With Engineering Sub- Contractor

ii. With Commissioning Sub-Contractor

Submitted

Page No.____



ENGINEERS INDIA LIMITED
NEW DELHI

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PREQUALIFICATION
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A.6 Commitment Letter for any other activity as per requirement of Invitation for Pre-qualification

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 have been submitted :

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

Submitted

Page No.____

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.-----



ENGINEERS INDIA LIMITED
NEW DELHI

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PREQUALIFICATION
CHECKLIST

DOCUMENT NO.

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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._____

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



ENGINEERS INDIA LIMITED
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**PREQUALIFICATION
CHECKLIST**

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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 Owned by the company as per Exhibit-12

Submitted

Page No.____

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

Submitted

Page No.____

(Signature of Bidder)



ENGINEERS INDIA LIMITED
NEW DELHI

6936-04 pq ch lst

PREQUALIFICATION
CHECKLIST

DOCUMENT NO.

6936-PQ-CL-04

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