



ISPRL

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)

AMENDMENT NO. 1
FOR
PROCESS AND UTILITY FACILITIES AT TOP SIDE AND
INSIDE CAVERN ON EPCC BASIS

PREPARED AND ISSUED BY:

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ENGINEERS
INDIA LIMITED

(A Govt. of India Undertaking)

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AMENDMENT NO. 1**

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

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TO

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

FOR

PROCESS AND UTILITY FACILITIES AT TOP SIDE AND INSIDE CAVERN ON EPCC BASIS

**(PROJECT: STRATEGIC STORAGE OF CRUDE OIL PROJECT OF ISPRL
AT MANGALORE, KARNATAKA, INDIA)**

AMENDMENT NO. 1

SUBJECT: PROCESS AND UTILITY FACILITIES AT TOP SIDE AND INSIDE CAVERN ON EPCC BASIS FOR STRATEGIC STORAGE OF CRUDE OIL PROJECT OF ISPRL

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

The terms, conditions of PQ Document stand modified to the extent indicated under column "MODIFICATIONS/ ADDITIONS/ DELETIONS". All other terms & conditions etc. of PQ Document issued earlier shall remain unaltered.

Sl. No.	Section of PQ Document	Page No.	Clause / Item No.	Subject	Modifications/Additions/Deletions
1.	Invitation for Pre-qualification	1 of 9	2.0	General	<p>The para three of Clause "2.0 General" of Invitation for Pre-qualification of Bidders is modified to the following extent:</p> <p>"The words 'Cross country pipeline and intermediate booster station' stand deleted."</p>
2.	Invitation for Pre-qualification	2-3 of 9	3.0	Scope of Work	<p>The brief Scope of Work provided in Clause 3.0 of Invitation for Pre-qualification of Bidders is replaced by following:</p> <p>"3.0 SCOPE OF WORK:</p> <p>3.1 The scope of work shall comprise of the following:</p> <ol style="list-style-type: none">I. Project management,II. Residual basic design, Detail engineering and HAZOP study.III. Procurement, Inspection & ConstructionIV. Pre commissioning ,Commissioning & performance testV. Obtaining of Statutory approvals.VI. Top Side of Cavern Process Facilities and Utilities <ul style="list-style-type: none">• N₂ Storage /Inert Gas Storage Unit/Flue gas Generator• Crude Heating System and heat exchanger

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Sl. No.	Section of PQ Document	Page No.	Clause / Item No.	Subject	Modifications/Additions/Deletions
					<ul style="list-style-type: none">• 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 system• Provision for extending telephone connections of Mangalore cavern to Intermediate booster station & Padur cavern.• Public Address System• Instrument and Plant Air System• Crude Receipt facility• Despatch Facility consisting of submersible crude pumps• Diesel generator sets.• Access control system

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SI. No.	Section of PQ Document	Page No.	Clause / Item No.	Subject	Modifications/Additions/Deletions
					<p>VII. Top Side Buildings & Other Works</p> <ul style="list-style-type: none"> • 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) <p>VIII. Inside Cavern Shaft Facilities</p> <ul style="list-style-type: none"> • 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 <p>IX. Within Cavern Facilities</p> <ul style="list-style-type: none"> • 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

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					<ul style="list-style-type: none"> • Charging of water and commissioning of water curtain • Cavern tightness testing, inertisation and commissioning. <p>3.2 The above ground work contractor (Part-B) shall interface with the underground contractor (Part -A) for installation of plugs, equipments in the shafts, inside the cavern, and cavern tightness testing.”</p>
3.	Invitation for Pre-qualification	5 of 9	5.2.1.1.1	Experience Criteria (Commercial)	<p>The sub-clause 5.2.1.1.1 of Invitation for Pre-qualification of Bidders is replaced by following:</p> <p>“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:</p> <ul style="list-style-type: none"> i) One Contract of minimum value of INR 955 Million or US\$ 20 Million <p style="text-align: center;">or</p> <ul style="list-style-type: none"> ii) Two Contracts each of minimum value of INR 610 Million or US\$ 13 Million. “

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4.	Invitation for Pre-qualification	6 of 9	5.2..2.1.1	Commercial Criteria- Annual Turnover Requirement	<p>The sub-clause 5.2.2.1.1 of Invitation for Pre-qualification of Bidders is replaced by following</p> <p>“5.2.2.1.1 Annual turnover of Bidder shall not be less than INR 1300 Million for Indian Bidders or US \$ 28 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.”</p>
5.	Invitation for Pre-qualification	6 of 9	New sub-clause	Bids by wholly owned Indian subsidiary of a Foreign Company	<p>Add new sub-clause 5.4.3 after the sub-clause 5.4.2 of Invitation for Pre-qualification of Bidders.</p> <p>“5.4.3 A bid made by a wholly owned Indian subsidiary of a Foreign company will also be considered provided the Parent Company meets the experience criteria (5.2.1) and financial criteria (5.2.2). In such case, the following shall be complied and necessary documents from parent company shall be submitted:</p> <p>a) The work under consideration shall either be executed by the Parent Company or shall be executed under the supervision and back-up of the Parent Company.</p> <p>b) The Parent Company shall furnish a corporate undertaking to be jointly and severally responsible with the Indian Subsidiary for due, proper and timely performance of the contract and discharge of liabilities of its Indian Subsidiary in the event of the award of work to its Indian subsidiary.”</p>

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Sl. No.	Section of PQ Document	Page No.	Clause / Item No.	Subject	Modifications/Additions/Deletions
6.	Invitation for Pre-qualification	7 of 9	8.0	Sale period of PQ Document	Sale period of PQ document is extended upto 19-08-2009.
7.	Invitation for Pre-qualification	8 of 9	10.0	Submission of PQ Bids	The due date and time for submission of PQ Bids is extended to 20-08-2009 upto 1200 hrs. (IST).
8.	Invitation for Pre-qualification	8 of 9	11.0	Opening of PQ Bids	The date for opening of PQ Bids is extended to 20-08-2009 at 1400 hrs. (IST).
9.	Instructions for PQ Bid submission	9 of 13 (Doc. No. 6936-PQ-04)	6.12	Qualification and experience of Technical Personnel	The clause no. 6.12 of Instructions for PQ Bid submission is replaced by following: "Bidder shall furnish CVs of key personnel / specialists in various fields in brief as per Exhibit-11 of PQ Document. For engineering and construction indicated in exhibit 11, the CV shall be submitted for all disciplines in line with scope of work."
10.	Instructions for PQ Bid submission	13 of 13 (Doc. No. 6936-PQ-04)	10.0	FIGURE-1	The "FIGURE-1" at Clause 10.0 of Instructions for PQ Submission is replaced by "FIGURE-1A" for key plan attached as Appendix-I to this Amendment.

(SIGNATURE AND STAMP BY BIDDER)

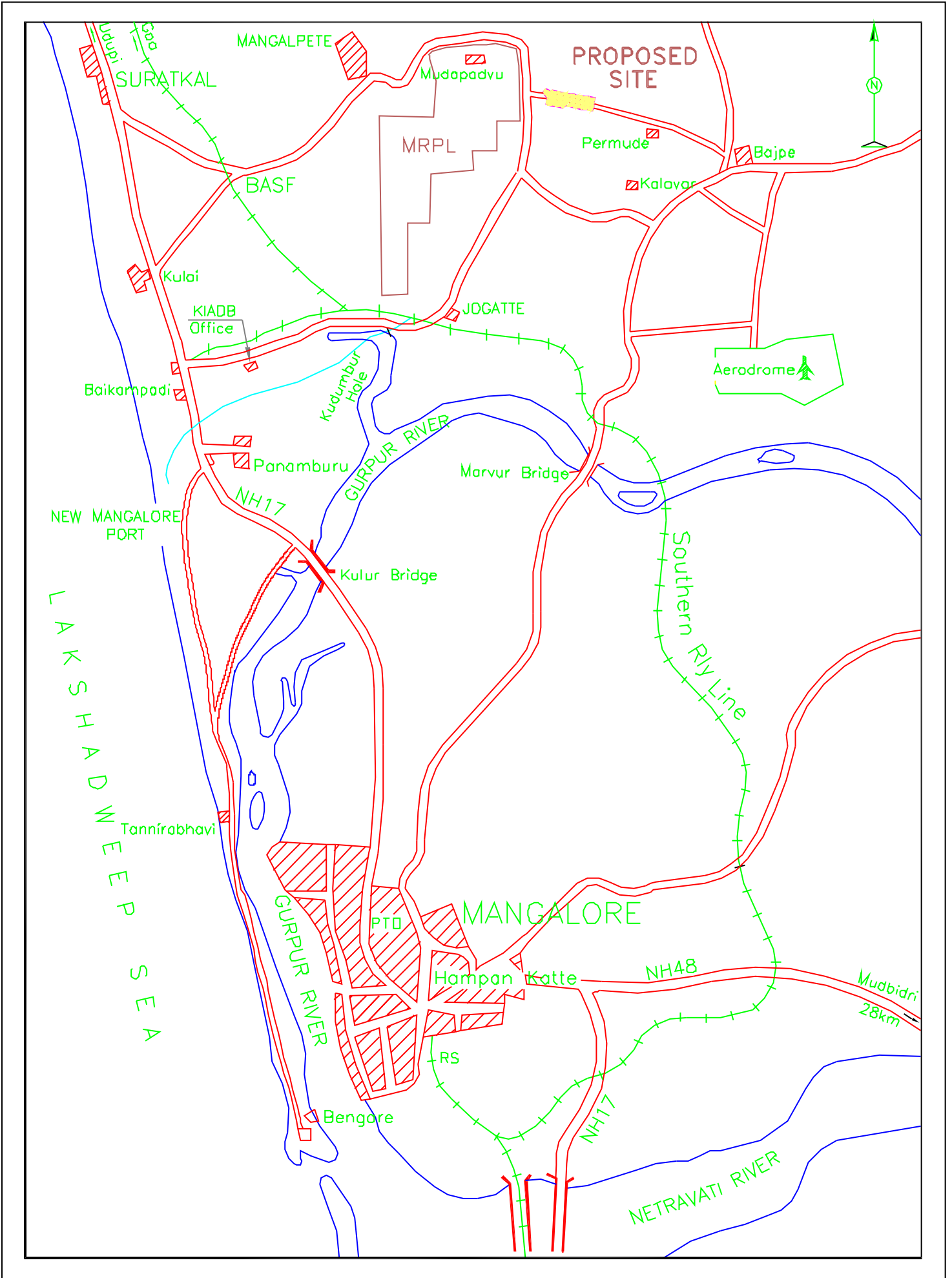


FIGURE 1: PROPOSED STRATEGIC STORAGE SITE AT MANGALORE