



CHAPTER-I

SPECIAL INSTRUCTIONS TO TENDERERS - TECHNICAL

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SPECIAL INSTRUCTION TO TENDERERS

1.0.0 INFORMATION

The information given in the Bid Documents and in the plans and drawings forming part thereof is merely intended as a general information without undertaking on the part of the Owner as to its accuracy and without obligation relative thereto upon the Owner. **The Vendors are expected to conduct their own surveys and investigations prior to Bidding.**

Before bidding, the vendor shall undertake and shall be deemed before bidding to have undertaken a thorough study of the proposed work, the job site(s) involved, the site conditions, the labour, power, water, material and equipment availability, transport and communication facilities and temporary offices and accommodation quarters, and all other factors, constraints and facilities necessary for the formulation of the Bid, supply of materials and the performance of the work.

The vendor shall inspect and examine the site and its surroundings and shall satisfy himself before submitting his tender as to the nature of the ground present, physical conditions and all roads, approaches and lands which may be used temporarily otherwise in connection with the works, means of access to the site accommodation he may require and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect his tender.

2.0.0 INTRODUCTION

2.1.0 Indian Oil Corporation Limited proposes to lay Natural Gas Steel Pipeline in different Geographical Area (GAs) authorised to IOCL by PNGRB.

2.2.0 Indian Oil Corporation Limited. invites tenders from bona fide and experienced Contractors of financial standing and reputation for the following job in three different groups as detailed below:

Name of Work:	3 LPE COATED CARBON STEEL PIPELINE LAYING AND ASSOCIATED WORKS IN GROUP-A: Jehanabad GA GROUP-B: Salem GA GROUP-C: Madurai GA
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3.0.0 BRIEF DESCRIPTION OF WORK

3.1.0 The scope of work under this tender broadly involves Laying of 6.625"/4.5" OD 3 LPE coated Carbon Steel Natural Gas Pipeline in GAs Under CGD Project in Multiple groups

3.2.0 The pipeline network will traverse in different districts in the state of Tamil Nadu and Bihar.



- 3.3.0 The work broadly involves Mainline laying & associated works like Temporary Cathodic Protection (TCP), Optical Fibre Cable (OFC) laying works, Combined Station Works (CSW) viz. Civil, Mechanical, Electrical, Telecommunication & Instrumentation works at Sectionalizing Valve (SV) locations.
- 3.4.0 The mainline works to be carried out under the scope of present tender shall include all crossings including HDD crossings across Rivers, Highways, Railway, Ponds, Nala & Canals.
- 3.5.0 The entire work under this tender is to be carried out under Three groups as detailed below:

Group	Mainline Section (From / To)	Nominal Steel Mainline Pipe size OD	Mainline length (Km) (approx.)	Total Length of Different Diameters (Km)
A	Jehanabad GA	6.625"	34.08	34.30
		4.5"	0.22	
B	Salem GA	4.5"	32.30	32.30
C	Madurai GA	4.5"	6.05	6.050

- 3.6.0 The brief scope of work to be carried out is as follows:-

3.6.1 Mainline Works

- 1) Taking delivery of Owner-supplied 3LPE coated carrier pipes of various thicknesses from Owner's designated stockpile locations, and transporting them to work sites including transit insurance of pipes, placing of pipe trailers for taking delivery of pipes from stockpile, providing pipe lifting equipment at stockpile location for lifting and placing on trailers.
- 2) Taking delivery, transportation & Installation of Mainline Valves from Owner's designated stockpile locations, and transporting the same to site for permanent incorporation in the works.
- 3) Trenching in all kinds of soil, marshy areas, water logged/ high water table areas etc. and to all depths for maintaining clear earth cover to the mainline pipe as per the specifications / drawings.
- 4) Rock trenching including controlled blasting as per specific instructions of Engineer-in-Charge. Use of rock trencher in place of blasting is permitted at no additional cost to the Owner.
- 5) Laying pipeline across Mainline obstacles/Crossings such as Submerged Crossings, Open Cut Road crossings, water course crossings, marshy area etc.
- 6) Design & engineering for installation of the crossing by HDD method to meet the technical parameters of the crossing and specifications.
- 7) Installation of carrier pipe with/ without OFC duct as a single bundled/separate crossing(s) by Horizontal Directional Drilling (HDD) technique across specified



Rivers, Roads, Highways, Canals, Ponds, Drains etc. using pre-hydro tested pipes. The pipe shall be installed to the correct profile below the utility being crossed as per drawing submitted by the Contractor and approved by the Owner.

- 8) Sealing of both sides of mainline pipe sections/installed crossing sections (cleared for lowering) with full circumferentially welded end caps (only one run), to prevent any ingress of water, mud etc. into the section. End capping, on both ends, of the mainline sections shall be removed prior to tie-in/hook-up with other installed mainline/crossing sections.
- 9) Lowering the pipeline in trench & backfilling.
- 10) Filling fine sand, of specified thickness, around mainline pipe in trenches at Seismic Fault Line(s) locations, in hard rocky stretches & in stretches other than normal soil and hard rock, for providing padding on top as well as at bottom of the mainline pipe to safeguard the pipe coating. In case of non-availability of fine sand, soft soil padding shall be used upon approval from EIC.
- 11) In case of shortage of nominal thickness pipe, higher thickness pipe shall be used for normal laying of pipe at no extra cost.
- 12) Higher wall thickness pipe, if required, shall also be used at seismic fault locations, rocky stretches, sharp cold field bend locations, hot pulled bend locations, open cut road/cart-track/water course crossings etc. The laying cost of higher thickness pipe at above mentioned locations shall be covered under mainline laying item of SOR. No additional payment shall be made on account of variations in pipe thicknesses for mainline laying.
- 13) Supply & providing warning tape inside trench for entire length of pipeline.
- 14) Tying-in of welded pipeline sections including crossings.
- 15) Carrying out post-installation hydrostatic testing of complete pipeline section along with HDD crossing sections, included in the scope of this tender, for 24 hours.
- 16) Carrying out calliper survey of the entire pipeline section including HDD sections under the scope of work of this tender. This is an optional item and shall be operated under specific instructions of Engineer-in-Charge.
- 17) Air Drying of the entire pipeline, including all HDD sections. This item shall be operated under specific instructions of Engineer-in-Charge.
- 18) Nitrogen purging of the entire pipeline, including all HDD sections. This item shall be operated under specific instructions of Engineer-in-Charge.
- 19) Installation of Mainline Valve (including hydrotest & pneumatic test of new valve) with / without by-pass lines and vent including supply of all fittings, gaskets, studs and any other material required to complete the job including supply of all types of valves below 2" NB size.



- 20) Carrying out various associated Civil, Mechanical, Electrical, CP, Instrumentation & OFC Works at SV locations & along the pipeline ROW en-route including supply of certain equipment/ material as indicated in “Schedule of Rate (SOR)-Material Supply” in the tender document at respective work sites.
- 21) Laying of Optical Fibre Cable (OFC) along Mainline. Owner has planned to lay optical fibre cable along the upcoming pipeline under this Project, through permanently lubricated 40 mm OD HDPE duct. The HDPE duct, as conduit for Optical Fibre Cables, shall primarily be laid in the same trench bed of mainline pipe.
- 22) Carrying out OFC splicing works, electrical terminations, soldering/de-soldering, preparing wiring diagrams, cable schedules, isometric/ perspective drawings.
- 23) Installation of pipeline markers and restoration of RoU.
- 24) Mainline commissioning.
- 25) Submission of digitized radiography film & record of the radiography carried out in the mainline works.
- 26) Transportation of unutilized pipes at respective stockpile locations to the nearest IOCL installation under specific instructions of Engineer-in-Charge.
- 27) Preparation of reference documents for mainline and valve station works which shall include As-Built drawings, datasheets, pipe-books, line history sheets, isometric drawings etc.
- 28) Temporary Cathodic Protection (TCP) works for Mainline
- 29) Carrying out various associated Civil, Mechanical, Electrical, CP, Instrumentation & OFC Works at various SV stations including supply of certain equipment/ material as indicated in “Schedule of Rate (SOR) in the tender document at respective work sites. Construction of SV Stations including the valve pits, cover slab, fence etc. complete in all respect.
- 30) Bidders shall also be responsible for liaisoning of all permissions from respective statutory authorities i.e. PWD, NHAI, Railway, Nagar Nigam, Local authorities, Forest/ central forest etc. Liaisoning for Permission from Statutory Authorities comprises carry out detail survey and preparing the drawing as per the requirement of statutory authority, applying for permissions, regular follow ups and obtaining the permission. IOCL is responsible only for preparing the letter towards application for permission and submission of demand note raised by statutory authorities.

3.7.0 Detailed scope of work is further enumerated in the Special Conditions of Contract.

4.0.0 SITE LOCATION

4.1.0 The site at which the work is to be carried out under this tender are as detailed below:



4.2.0 Pipeline Route:

Group	GA Name	Pipeline Length Km (Approx)	Tentative Route
A	Jehanabad GA	34.30	Tentative route attached with Technical specification
B	Salem GA	32.30	Tentative route attached with Technical specification
C	Madurai GA	6.050	Tentative route attached with Technical specification

In above GA wise sections, the steel pipeline of 6.625"/4.5" OD is to be laid along the Road with crossings. Owner also envisage to lay 4.5" OD connectivity line to various Demand centres en-route.

4.3.0 Any Route Map (or kmz file), if provided with the tender is only indicative and there may be variation in the final pipeline route map/alignment at the time of execution within the geographical area. Tenderer is deemed to have considered the same and no extra claim/ additional compensation shall be payable for the route variations.

4.4.0 If any underground Pipeline is encountered along the Pipeline route, in such case in order to suit the site conditions, the new pipeline has to cross the existing underground pipeline facilities. At these places, the new pipeline is to be laid carefully underneath the existing pipelines with a minimum clear gap of 500 mm at the point of crossing, without causing any damage to existing pipelines. In this regard, guidelines of the Owner of the pipeline to be crossed shall be followed.

4.5.0 The proposed pipeline shall be laid along the existing road/highway.

4.6.0 If any additional land is temporarily required, for execution of construction activities, the same shall be arranged by the Contractor at his own cost and initiative. No additional compensation shall be payable for working in the restricted stretches of ROW.

4.7.0 Further, there may be stretches along pipeline route movement of heavy equipment and machineries may be difficult and use of light construction equipment / manual operation shall have to be resorted to. Tenderer shall be deemed to have collected such details and taken into account all such considerations while submitting the offer.

4.8.0 Along the pipeline route, there could be various obstructions, habitat area. Tenderer shall be deemed to have considered such provisions in his offer. No additional compensation shall be paid for on this account.



- 4.9.0 The pipeline shall be laid adjacent to existing operational roads, which may require additional safety measures. Tenderer shall be deemed to have considered this aspect in his offer. No additional compensation shall be paid for on this account.
- 4.10.0 Any investigation/ survey be necessary, the same shall be carried out by the Contractor at his own cost.
- 4.11.0 The reports and information regarding soil strata conditions, if provided, shall be treated as guideline indication only. Should any additional investigation/ survey be necessary, the same shall be carried out by the Contractor at his own cost.
- 4.12.0 The soil-stratification details, if provided, may be treated as guideline indications only and tenderer has to make his own assessment for submission of bid as well as execution. Bidder has to make his own assessment for submission of bid as well as to carry out soil stratification for execution purpose. No claim, whatsoever, shall be entertained on this account.
- 4.13.0 It may be noted that the soil stratification details along pipeline alignment and geo-technical investigation reports of HDD locations, if provided, is only indicative and the tenderer has to make his own assessment of the sub-soil condition for submission of bid. No claim, whatsoever, shall be entertained on this account.
- 4.14.0 Any soil stratification/ geo-technical investigation, topographical surveys as may be felt necessary for the execution of the work shall be carried out by the Contractor at his own cost.

5.0.0 SITE VISIT

- 5.1.0 The Tenderers are advised to visit the locations and examine the route & its surroundings and obtain all information that may be necessary for preparing their Offer / Bid and entering into the contract. Non-familiarity with site conditions will not be considered a reason either for extra claims or for not carrying out the work conforming to the specifications.
- 5.2.0 The bidder may contact the following IOCL's site representative with due appointment for necessary guidance and help during site visits:-

Group	GA Name	Pipeline Length Km (Approx)	Site representative
A	Jehanabad GA	34.30	Rakesh Ranjan Sr Mgr (CGD), ERPL, CGD Aarah 9471002765 ranjanrakesh@indianoil.in
B	Salem GA	32.30	Gurumoorthy P. CM (CGD), Salem, CGD 9994284019 gurumoorthyp@indianoil.in



C	Madurai GA	6.050	Subhash Datla Varma M (CGD), SRPL, CGD Madurai 9679991928 dsvarma@indianoil.in
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6.0.0 LOCAL CONDITIONS

- 6.1.0** It will be imperative on the part of each Bidder to acquaint himself with all local laws, conditions and factors which may have any effect or bearing on the execution of works and supplies under the scope of this tender. The Bidders are requested to familiarise themselves with (but not limited to) the Indian Income Tax Act, Indian Companies Act, Indian Customs Act, Factories and Boiler Act, Contract Labour (Regulation and Abolition) Act, Arbitration Act and other related Acts and Laws & Regulations of India with their latest Amendments, as applicable. In respect of Foreign Contractors, necessary permission from the Income Tax Authority and assessment of income tax deduction rate at source, are pre-requisites for release of any payments. The successful Bidder, to whom the work shall be awarded, shall arrange such permissions on his own initiative and contingent costs thereto. The Owner shall not entertain any clarification from the Bidder(s) regarding such local conditions.
- 6.2.0** The tenderer may note that the job also includes laying of the Mainline and associated station works . Contractor shall execute the works with due care and follow all safety norms, rules and regulations. Contractor is advised to take note of the above while submitting the bid.
- 6.3.0** Any permission for day-to-day work will be obtained by the contractor from designated authorities at his own cost and initiative. All necessary safety and security provision will be fully complied with by the contractor at his own cost. The contractor shall provide suitable barricading, as per approved drawing at his own cost, to separate the working area from the operating/ existing facilities/ structures as per requirement and as per directions of Engineer-in-Charge.
- 6.4.0** It must be understood & agreed that above factors have been properly investigated and considered while submitting the offer. No claim for financial or any other adjustments to contract price or completion time on account of lack of clarity of such factors, shall be entertained.

7.0.0 BID QUALIFICATION CRITERIA/ EVALUATION - TECHNICAL

Technical evaluation of the tenderer shall be primarily done based on the following qualifying criteria:-

7.1.0 MAINLINE WORKS:

- 7.1.1 Sole Bidder:** Individual (Proprietary)/Partnership/Public Limited Company/Private Limited company

The Bidder on its own, should have successfully **Completed/ Executed (*)** similar work, as defined below, as a Main Contractor or Sub-contractor, during any of the last Seven



Years ending on the last day of the month, immediately previous to the month in which Original date of bid submission end date falls, shall only be taken into consideration. Even in case the date of bid submission is extended, the date originally considered as reference date for the experience criteria, shall remain unchanged.

Group	GA Name	Single similar Completed/ Executed (*) Steel Pipeline laying contract of minimum Length and minimum diameter of pipeline shall be as under:	
		Minimum Size (Dia.) (NB in inch)	Minimum Length (in km)
A	Jehanabad	4"	17.15
B	Salem	4"	16.15
C	Madurai	4"	3.025
For multiple groups (more than 1 group)		Highest of the dia. of quoted groups	Sum of the Minimum length (in Km) of quoted groups

The similar work mentioned above is defined as completion of all the Pipelines Laying Activity for "Installation & Mechanical Completion including hydrotesting of buried Hydrocarbon Steel Pipeline".

(*) Executed work is defined as completion of all the Pipelines Laying Activity (i.e., work involving Installation & Mechanical Completion including hydrotesting of buried Hydrocarbon Steel Pipeline) for the length of pipeline claimed for BQC.

For work done as an Sub-contractor, bidder has to submit a certificate from the end User/ Owner/ Main Contractor/Consultant to the owner, engaged as EIC (Engineer-in-charge), for the execution of said works along with bid.

With regard to sub-contracted work order, the bidder has to submit a certificate from the end user / owner / consultant of the owner acting as EIC stating that sub-contracting have been approved/ permitted

In case when an approved sub-contractor and main contractor both participate in the same tender on the strength of the same work/job, orders submitted by both the vendors shall be considered for evaluation against PQC.

Bidder may quote for more than one group. However, for bidder to qualify for more than one group, bidder must meet the cumulative BQC requirements (technical BQC, Commercial BQC, ATO and Net Worth) of those groups, i.e. aforesaid requirement shall be decided by adding requirement of respective quoted groups

7.1.2 BIDDING ENTITY

- Sole Bidder:** Individual (Proprietary)/Partnership/Public Limited Company/Private Limited company
- Consortium** (including an unincorporated Joint Venture) having a maximum of two members; **not applicable for this tender.**



- c) **Wholly owned Indian subsidiary** of a Foreign or Indian company on the strength of its parent company; **not applicable for this tender.**

7.1.3 VERIFICATION OF DOCUMENTS

Submission of authentic documents is the prime responsibility of the Bidder. However, IOCL reserves the rights of getting the document cross verified, at their discretion from the document issuing authority. After opening of technical bid, bidder may be called, if required, for verification of document uploaded on the e-tender portal in support of the “Criteria for Evaluation” as per relevant clause mentioned above. While verification, respective uploaded bid documents shall be cross-checked with the original documents

- 7.1.4 IOCL reserves the right to complete the evaluation based on the details furnished (without seeking any additional information) and/ or in-house data, survey or otherwise.

8.0.0 SUBMISSION OF OFFER (TECHNICAL BID)

- 8.1.0 The bidder shall submit the following details/ documents along with the bid.

- 8.2.0 All technical Annexures shall be filled as per the attached formats only. In no case formats other than those mentioned in sub-sequent clauses shall be used.

1. Details of experience as per **Annexure-T#1** meeting experience (technical) criteria for techno-commercial evaluation as per Clause 7.1.0 and sub clauses there under of Special Instruction to Tenderers (SIT) along with relevant documents, such as copies of Work Order and execution/ experience/ Completion Certificate, supporting the claim. Evaluation of the bidders will be carried out on the basis of the work experience details submitted as per **Annexure-T#1** in the ORIGINAL BID.

2. Duly signed Addendum, if any, issued to the Bidder.

- 8.3.0 **Failure to furnish all information required as per the tender documents or submission of bid not substantially responsive to the tender documents, in every respect, may result in rejection of the bid.**

- 8.4.0 Submission of the information and details shall be done strictly in the manner described.

- 8.5.0 **PRICE SHALL NOT APPEAR ANYWHERE IN PART-A OF THE TENDER.**

9.0.0 PLACE OF PAYMENT

All payment in Indian rupees shall be released from the office of Indian Oil Corporation Limited, IBM Building, 2nd Floor, A-26, Rani Ramgarh Road, Block-A, Industrial Area, Sector-62, Noida Uttar Pradesh. Details will be provided to selected bidder.

10.0.0 SUB CONTRACTING

- 10.1.0 Sub-contracting is not allowed.



- 10.2.0** The contractor shall be required to obtain consent from EIC for purchases of Materials and Services which are in accordance with the Approved vendor list/Approved makes specified in the Contract or for provisions of labour or for the subcontracts for which the Subcontractors are named in the Contract
- 10.3.0** Procurement of material, hiring of equipment or engagement of labour will not mean sub-contracting.
- 10.4.0** Execution of the Works (or any part thereof) by petty contractors or on piece work basis under the supervision of the Contractor (or its representative) shall not be deemed to be Subcontracting under the Contract.
- 10.5.0** TCP, OFC works, NDT works etc. to be carried out by approved vendors as per tender or as approved by EIC.