



OIL INDIA LIMITED
(A Govt. of India Enterprise)
PIPELINE HEADQUARTERS
NARENGI, GUWAHATI
ASSAM

AA) OIL INDIA LIMITED (OIL), a Govt. of India “**MAHARATNA**” category PSU under the Ministry of Petroleum and Natural Gas, is a premier up-stream E&P Company engaged in exploration, production, transportation of crude oil and natural gas and production of LPG. OIL also has presence in the downstream sector with majority equity stake in Numaligarh Refinery. OIL has its Registered Office and its Field Headquarters at Duliajan and its Pipeline Headquarters at Guwahati, Assam. OIL’s commitment to growth has enabled the company to spread its wings from the north-eastern part of India to establish pan India presence along with global footprints.

BB) The Pipeline Sphere of OIL deals with transportation of petroleum to various refineries and thus operates a total of 1900 Km of hydrocarbon pipelines. For this purpose, it owns a 1157 Km long pipeline Right-of-Way (RoW) from Duliajan to Barauni traversing three states of Assam, West Bengal and Bihar. This RoW has multiple hydrocarbon pipelines viz. crude, product & natural Gas, all protected from a common Impressed Current Cathodic Protection (ICCP) system owned and maintained by OIL. Out of above-mentioned pipelines in the ROW, 1415 km of pipelines (mostly 16-inch and 14-inch diameter) are more than 40 years old and were considered under Pipeline Rehabilitation Project primarily involving in-situ coating refurbishment with cold tape systems with an aim to enhance life of pipelines by another 30 years.

OIL plans to refurbish under Phase II external coating of approx. 700 km pipeline in identified sections. The above pipeline passes through OIL owned ROW -1157 km long through states of Assam, West Bengal and terminates at Barauni, Bihar. In Phase-II there are 9 nos. of Repeater stations of crude pipeline network and SV stations of product pipeline network where MONOLITHIC INSULATING JOINT s (MIJs) along with S-bends installation has been envisaged under the project.

OIL has awarded Lyons Engineering Pvt. Ltd. (LEPL) as Project Management Consultant (PMC) for execution of Phase II of the above pipeline rehabilitation project.

Definitions:

Project	Replacement of Monolithic Insulating Joint and Hot Tapping Works for Pipeline Rehabilitation Project-Phase-II
Owner/Company	OIL India Limited (OIL)
Consultant	Lyons Engineering Pvt. Ltd. (LEPL)
Contractor	Design, Engineering, Procurement and Construction etc., providing the required services. And the organization selected to manufacture or supply the equipment, services or material, ordered in accordance with Technical Specification, data sheets etc.

As indicated above, the pipeline covers three states i.e. Assam, West Bengal and Bihar, the rainy season in Assam/West Bengal tentatively starts from Mid- April till October/November i.e. there will only be 4 / 5 working months in a year when the coating works can be performed. However, the working months might vary to 5-6 months in Bihar.

CC) Oil India Limited is in the process of formulating a contract for Replacement of Monolithic Insulating Joint and Hot Tapping Works for Pipeline Rehabilitation Project-Phase-II

In this connection, OIL intends to organize a Pre-Tender meeting on 03.11.2025 (Monday) through Video Conference.

DD) Vendors with following experience criteria and interested in providing the service can participate in the Pre-Tender meeting

1.0 GENERAL CONFORMITY:

The bid shall conform generally to the specifications and terms and conditions given in this bid document. Bids shall be rejected in case the services offered do not conform to required parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bids to the stipulated specifications, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected.

OIL reserves the right to ask for any Original or other relevant document to verify the certification as detailed in the following paragraphs.

2.0 CRITERIA FOR LOCAL CONTENT (LC): The bidder must be incorporated/constituted in India and must maintain more than 20% local content (LC) for the offered services to be eligible to bid against this tender.

Regarding calculation of local content and submission of documents during bidding & execution of contracts, provision of Purchase preference policy linked with Local Content (PP-LC) notified vide Letter No. FP-20013/2/2017-FP-PNG dated 17.11.2020 by-MoPNG (including subsequent amendments thereof, if any) shall be applicable.

If such local content is not maintained during execution of contract, OIL reserves the right to invoke the Performance Securities submitted by the bidding and supporting companies, in addition to resorting to other options as may be deemed appropriate.

Whether or not the bidders want to avail PP-LC benefit against this tender, it is mandatory for them to meet the following at the bidding stage: (a) The bidder must provide the percentage (%) of local content in their bid, without which the bid shall be summarily rejected being non-compliant.

(b) The Bidder shall submit an undertaking from the authorized signatory of bidder having the Power of Attorney along with the bid, stating that the bidder meets the minimum LC requirement (equal to or above 20%) and such undertaking shall become a part of the contract, if awarded [Format enclosed as Annexure- A-1 to BEC].

(c) The aforesaid undertaking of the bidder as stated in point (b) above shall also be supported by a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of other than companies) giving the percentage of local content. [Format enclosed as Annexure- A-2 to BEC].

(d) Bidder to submit a copy of their Certificate of Incorporation/ registration in India.

3.0 DRAFT TECHNICAL EVALUATION CRITERIA:

1.0 THE FOLLOWING MINIMUM CRITERIA SHOULD BE MET BY THE BIDDER FAILING WHICH THEIR BID/OFFER WILL BE REJECTED:

Bidder should have executed at least one job of minimum 8” diameter pipeline laying of buried cross-country hydrocarbon (oil/gas) pipeline and Hot tapping by stopple arrangement for minimum Pipe OD 355.6 mm and pipe grade X46 or above and of value as defined below in last 7 years reckoned from the original bid closing date.

OR

At least one job of minimum 8” diameter Station piping job and Hot tapping by stopple arrangement for minimum Pipe OD 355.6 mm and pipe grade X46 or above (excluding City Gas Distribution) and of value as defined below in last 7 years reckoned from the original bid closing date.

Option (\$)	Number of Contract(s) / Work Order(s)	Minimum value of pipeline laying and Hot tapping by stopple arrangement or station piping job and Hot tapping by stopple arrangement for experience in each Contract(s) / Purchase Order(s)
(a)	1	20 Crores
(b)	2	12.5 Crores
(c)	3	10 Crores

NOTES:

- a) Bidder can claim experience towards above BEC by submitting numbers of contract(s)/Work Order(s) as mentioned against any of the option in the above

Table. However, the bidder must submit minimum one (1) additional separate contract/Work order for meeting the requirement of Hot tapping by stopple arrangement on a minimum size of Pipe OD 355.6 mm and pipe grade X46 or above, same shall be considered for BEC qualification.

- b) In case the bidder is executing a contract which is still running and the quantity executed till one month prior to the Original Bid Closing date is equal to or more than the minimum requirement as mentioned above at clause no. A.1, such experience will also be taken into consideration provided that the bidder has submitted satisfactory work execution certificate to this effect issued by the end user / owner.
- c) In case of Laying involving Hot tapping by stopple arrangement or station piping involving Hot tapping by stopple arrangement, "executed" means the buried cross-country hydrocarbon (oil/gas) pipeline involving Hot tapping by stopple arrangement or station piping involving Hot tapping by stopple arrangement is completed up to Pre-Commissioning (i.e. Nitrogen purging) and ready for commercial use.
- d) The Contract(s) / Purchase Order(s) date need not be within the period specified in the tender, preceding the original bid closing date of the tender, however, the execution of work should be within the specified period preceding original bid closing date of the tender.
- e) Original Bid Closing Date shall be considered for evaluation of BRC Criteria in case of any extension of the bid closing date.
- f) A job executed by a bidder for its own organization/subsidiary cannot be considered as experience for the purpose of meeting BEC.
- g) In the event that the bidder does not possess a Hot Tapping and Stopple machine of the minimum required size, the bidder shall furnish a Memorandum of Understanding (MoU) executed with a Stopple contractor through whom the said work shall be carried out. The Stopple contractor/party shall, in addition, provide documentary evidence of ownership of at least one (1) complete set of Hot Tapping and Stopple machine of size 14 inch or above, duly certified by both a Chartered Accountant and a Chartered Engineer.

h) Bidders must quote for complete scope of work. In case bidder quotes for incomplete scope of work, the bid shall be summarily rejected.

- 1.1 The experience of a consortium member, if such a member has executed the job within its scope as the member of the consortium, which is required as experience as per the qualification criteria in clause 3.1 will be considered. The appropriate documentary evidence is to be submitted towards such experience.
- 1.2 Documents required for meeting technical BEC requirement:
 - Purchase Order / Work Order copy/ LOA
 - Copy of SOR clearly describing the scope of work / Contract copy
 - Completion certificate/ Execution Certificate issued by owner certifying the size & length of pipeline executed in single stretch.

- Bidders are required to submit all such past experience (s) (PTR) meeting the BQC along with relevant supporting documents in the first instance itself, along with the bid. Accordingly, only such past experience (s) shall be considered for qualification, details of which are provided in the bid by the bidder and subsequently no additional past experience (PTR) shall be sought from the Bidder. Bidder to submit the details of past experience in the format attached with bidding document.

In absence of requisite documents, OIL/LEPL reserves the right to reject the bid without making any reference to bidders.

- 1.2.1 The Bid must cover entire services mentioned in the tender (i.e. Scope of Work/Terms of Reference). Bid, which does not include all the jobs/services mentioned in the tender document/price schedule format will be considered as incomplete and rejected.
- 1.2.2 Multiple/Alternative bids: A bidder (i.e. the bidding entity) shall, on no account submit more than one bid directly (as a single bidder or as a member of consortium) failing which all bids submitted by such bidder, shall stand rejected and EMD, if any, submitted by bidder shall be forfeited.
- 1.2.3 Oil India Limited (OIL)/LEPL reserves the right to contact the Client(s) referred by the Bidder for authentication of the documents submitted by the bidder. OIL/LEPL may contact the clients/operators under intimation/copy to the respective bidder. OIL/LEPL will not be responsible for Client(s) not conforming or not replying to OIL's/LEPL's request for information. If OIL/LEPL does not get an affirmative response within the stipulated time then such Bidder's technical bid will be considered as non- responsive. It will be the responsibility of the Bidder to take up the matter with his Client (s) and arrange for the confirmation as desired by OIL/LEPL.

Notes to BEC Clause no. 1.0 above:

Bids of those bidders who themselves do not meet the experience criteria as stipulated in Clause No. 1.0 of the tender, can also quote under the category listed below:

A. BID FROM JOINT VENTURE (INCORPORATED):

a) In case the bidder is Joint Venture, they must be registered in India and incorporated under the Companies Act 1956/Companies Act 2013/Limited Liability Partnership Act 2008 and any amendment thereunder. They should meet the technical qualification requirements as under:

(i) The JV on its own shall meet the experience criteria as per Clause No. 1.0 above.

Or

(ii) Any member of the JV having a stake of at least 26% in the JV, on its own shall meet experience requirement as per Clause No. 1.0 above.

Note:

- ❖ In case of (ii) above, an undertaking from the Joint Venture partner, based on whose experience the JV seek qualification, shall be submitted with the techno commercial bid stating that they shall maintain minimum 26% shareholding in the JV during entire duration of the contract and extension, if any, thereof, failing which bid will be liable for rejection. Similarly, under such a situation the contract shall be liable for termination, if already awarded.
- ❖ Experience of the JV or its member (as the case may be) relying on the experience of its supporting company/subsidiary/co-sub subsidiary/ sister subsidiary /parent/ holding/affiliating/ associate company or through any other arrangement like technical collaborator for meeting the technical criteria shall not be considered for evaluation.
- ❖ The documents establishing experience of the JV or its member (as the case may be) shall be submitted as per BEC Clause No.1. 0 above.
- ❖ The documents showing the existing shareholdings of the JV Partners must be submitted.

b) **Constitution of Joint Venture:** The members of the JV should not be more than three. If after submission of bid, a JV leader effects any alterations/changes in the constitution or replacement or inclusion or expulsion of any partner(s)/member(s) of the Joint Venture which had originally submitted the bid, the bid of such a JV shall be liable for rejection. Similarly, under such a situation the contract shall be liable for termination, if already awarded.

c) Indian bidders whose proposal for Joint Venture involves foreign equity participation or payment of royalty and / or lump sum for technical know-how and wherever Govt. approval is necessary, are required to submit their application submitted to SIA/RBI along with the bid and copy of Govt. approval prior to the date of price bid opening. Confirmation to this effect and declaration on the same should be provided as part of their technical offer.

d) Members of the JV are not allowed to quote separately/independently / or through any other arrangement like part of any other JV against this tender. All the bids received in such a case shall be summarily rejected. Further, all bids from parties with technical support from the same Principal shall be rejected.

B. In case of Clause no. I. A. above, bidders shall submit the following in addition to the documents mentioned above:

a) Undertaking should be submitted by the JV Partner [on whose strength/support the bidder is bidding] (as per Clause no. I. A. above) to provide additional Performance Security (as per Proforma-T) equivalent to 50% of the value of the Performance Security which is to be submitted by the bidding company in case the bidding company is the successful bidder. In cases where JV partner does not have Permanent Establishment in India, the bidding company can furnish Performance Security equivalent to 150% of the value of the Performance Security which is to be submitted by the bidding company. In such case the bidding company shall furnish an undertaking that their JV partner is not having any Permanent Establishment in India in terms of Income Tax Act of India.

b) Undertaking from the JV partner to the effect that in addition to invoking the performance security submitted by the contractor, the performance security provided by JV partner shall be invoked by OIL due to non-performance of the contractor.

EVALUATION OF BIDS/ EVALUATION METHODOLOGY (DRAFT)

Evaluation of Price bid shall be carried out as per the following:

- a) Evaluation of Price bid shall be carried out on overall basis means for complete scope of work.
- b) The estimated quantities, item-wise rates (inclusive of all taxes & duties excluding GST) and total estimated price is pre-filled in the SOR and the bidders are only required to mention "% INCREASE OR "DECREASE" quote in figures as well as in words in the requisite cells by which total estimated price in the SOR shall be increased or decreased to arrive at bidder's quoted price. The same quoted %age (increase/ decrease) shall be considered to arrive at bidder's rates of all individual items of SOR.
- c) The ranking of bidders (L-1, L-2, L-3 ...) shall be determined by the bidder's evaluated price (arrived after applying quoted % age increase or decrease on total estimated price excluding GST) in ascending order. In case of a 'tie' i.e., more than one bidder quotes the same price arrived at based on evaluation, the rank will be decided based on the turnover of audited account for the immediately preceding financial year. As an example, in case two bidders become L-2, the bidder having higher turnover in the immediately preceding financial year will be considered as L2 and other bidder will be ranked as L3.
- d) **Lowest bidder (L-1) shall be evaluated separately.** purchase Preference shall be applicable for award to Class-I LC bidder as per PP-LC Policy (within the Price Band of L1+20%).

EE) In view of above, we request interested vendors to depute their representative to attend the Pre-Tender meeting to be held as per following details:

Date: 03.11.2025

Time: 2:00 PM

Venue: Through Video Conference. Link 0for attending Video Conference is given below;

Microsoft Teams Need help?

Join the meeting now

Meeting ID: 486 283 387 277 5

Passcode: xB9dF2r6

Join on a video conferencing device

Tenant key: teams@oilindia.onpexip.com

Video ID: 133 225 442 7

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZWY1ODkzNTktZjUzNy00N2I3LWJmNTktMjYxOWE0OTc3N2Zk%40thread.v2/0?context=%7b%22Tid%22%3a%22e31a7fb6-0272-4369-aa63-b1e02fa1144d%22%2c%22Oid%22%3a%228c5a10cf-06ba-44d7-bba1-1c2c7df173f4%22%7d

FF) SCOPE OF WORK

1. WORK TENDERED

Work tendered in this bid package consists of Design, engineering, procurement, supply, installation, testing of various activities related to **Replacement of Monolithic Insulating Joint and Hot Tapping works for Pipeline Rehabilitation Project Phase-II.**

The work involved in this project are as follows:

- Site visit for studying the existing station facilities as per the scope of the project.
- Supply & Installation of Monolithic Insulating Joints (MIJs) for 9 nos. of Repeater stations of crude pipeline network and SV/RS (Repeater stations) of product pipeline network as follows:

MIJ INSTALLATION - NAHARKATIYA BARAUNI CRUDE PIPELINE (NBPL)			
SL No.	Location	MIJ (No.)	Size (Inch)
1	RS-5 JAGIROAD	2	16
2	RS-8 DHARMPUR	2	14
3	RS-9 BARPETA	2	14
4	RS-10 PRATAPKHATA	2	14
5	RS-11 CHEPANI	2	14
6	RS-12 BINNAGURI	2	14
7	RS-13 ODLABARI	2	14
TOTAL (No.)		14	

Additionally, NSPL (Product Line) repeater stations having a single MIJ:

MIJ INSTALLATION - NUMALIGARH-SILIGURI PRODUCT PIPELINE (NSPL)			
SL No.	Location	MIJ Pending (No.)	Size (Inch)
1	RS-3 KAZIRANGA	1	16
2	RS-4 GHANI	1	16
3	RS-5 JAGIROAD	1	16
4	RS-8 DHARMPUR	1	16
5	RS-9 BARPETA	1	16
6	RS-10 PRATAPKHATA	1	16
TOTAL (No.)		6	

- Hot-tapping and stoppling system without or with flow by-pass mechanism, Preparation of

Execution Plan and Method Statement shall be in the scope of contractor.

- In cases, flow by-pass may not be feasible, and job has to be completed safely in minimum pipeline shutdown as per concurrence from the client.
- Carryout S-bend modification for MIJ installations.
- Supply of necessary hot tapping equipment and Installation of hot tap connection for puncturing the run pipe and dismantling as required.
- Collection and transportation of free issued materials from storage point to work site, providing necessary tools, tackles, machineries etc.
- Application of suitable coating materials in S Bend and field joint coating to protect the pipe against corrosion and other environmental factors. Coating material shall be Free issue by OIL/PMC.
- Fabrication, assembly and welding of spool piece consisting of MIJ and S-Bend shall be carried out above ground in a factory like environment including NDT & testing as per approved QAP before installation in the field.
- Hot Tapping work shall confirm to ASME B31.4 and API Recommended Practice 2201.
- At any given time, the contractor will have to work on multiple fronts. The contractor has to plan and mobilize the resources accordingly to meet the completion target Schedule of Owner. The entire work of installation and commissioning of MIJ must be carried out within a maximum shutdown period of 72 hours.
- Any other work not mentioned but required for successful completion of work.

2. SCOPE OF WORK

This section describes the 'Scope of Work' for the contractor to facilitate the understanding of the overall work required to be executed as part of this project. The description given in this section is not exhaustive and for complete understanding the overall scope of work, the Contractor must go through the subsequent sections of this document in detail.

The work shall be completed conforming to drawings, technical specifications, data sheets as furnished in the tender and any other information provided by Engineer-In-Charge. The general scope of work includes the following:

HOT TAPPING: The hot tapping contractor has to mobilize the necessary Hot Tapping/stopple machine, Stoppling cutter, pilot drill, cutter holder, plug holder and other accessories, required skilled, semiskilled, unskilled manpower, including Supply of Line stopple fittings, split tees, Line Stopple Plug with scarfed nipple, Sealing Elements, 2" pressure equalization fittings, gas bag fittings, Flanges, other tools and tackles, installation of the cutter housing, carrying out Hot tapping, stoppling, welding, insertion of the stopple plug and blocking flow in the pipeline section, installation of plug etc. for safe and successful completion of stoppling job under close supervision and as per the direction of OIL/PMC.

The Hot tapping shall be done through double stopple with or without temporary bypass method in existing pipe section at designated location as per site conditions. Rectification works such as installation of insulating joint to be carried out by cold cutting as per site requirement & instruction of OIL/PMC.

The replacement of insulating monolithic joints with monolithic insulating joints and installing new monolithic insulating joints shall be carried out by temporary isolation of the operating pipeline by hot tapping and installing stoppling fitting. The hot tapping and installation of the stopple fitting shall be carried out under "No flow" condition.

The contractor shall arrange to provide work front at each repeater station/ SV station to the hot tapping contractor for carrying out the job smoothly.

Hot tapping contractor shall mobilize hot tapping, stoppling and plugging equipment, spares, manpower and any other required resources for carrying out the job at one repeater station or as directed by PMC/EIC/ OIL based on availability of shutdown of the pipeline.

OIL shall arrange shutdown of the pipeline operation for carrying out the job. However, the duration between two successive shutdowns for repeater station locations will be intimated to contractor as determined by the refineries effected.

All works shall be carried with the best workmanship as specified herein and as instructed by the technical representative of the manufacturer.

The in-service welder shall be qualified in accordance with API 1104 Appendix B and should have experience of welding minimum two jobs of same size and pressure rating or higher. The contractor shall submit proper WPS and PQR with supporting documents for the job in question.

The specialized contractor shall deploy trained manpower with a Project Manager/Project Engineer/Site supervisor having a proven track record of carrying out hot tapping and stopple activities of a similar project and magnitude.

I. Site Visit

The Contractor shall carry out a detailed site visit including all the repeater station / SV Station facilities within project scope, for acquainting himself fully with the site, prevailing conditions, work requirement, site specific requirements and a thorough understanding of complete scope of work.

Collect & record all required details / information, validate information provided in tender document and update the same where required.

The contractor shall be deemed to have acquainted himself well with the prevailing site conditions and overall project requirement, before making his offer and no additional cost / time shall be admissible on account of any site condition.

II. Material Procurement & Supply

Based on survey details, all materials shall be procured (except Free Issue Materials FIM) by the Contractor. The following are major material requirements:

- Estimation of material requirement for the project
- Procurement and supply of all material required for the project
- Procurement and supply of MIJ
- Any other materials required for the project
- Prepare detailed schedule for material delivery and transportation to site, to meet project timelines.
- Prepare inspection & test plans for material as well as for project activities.
- Assistance to PMC/Owner for carrying out inspection and testing of incoming material as required.
- Supply of all consumables for the project.
- Taking over of Free Issue Material (FIM) supplied by the Owner. Stores management including receipt, warehousing, preserving the material in good condition, issue of material to construction site, reconciling/ handing over surplus material to Company for Company supplied items at Company's storage yard.
- Carryout proper documentation of inspection and quality assurance program for bulk materials duly approved by Company. Contractor shall maintain an accurate and traceable listing of procurement records for the location, quality and character of all permanent materials in the Project.
- Contractor shall immediately report to the Company of all changes which will affect material quality and recommend any necessary corrective actions to be taken.
- Submit weekly manufacturing progress reports highlighting hold ups and slippages, if any, to Company and take remedial measures.
- Compliance with vendors and supplier's instructions and recommendations for transportation, handling, installation etc.
- Contractor shall provide inspection of the items at vendor's works by the reputed inspection agency and shall submit inspection reports of OWNER's clearance. Cost of TPI shall be inclusive in the bid.
- The contractor shall arrange for inspection (TPI) of the materials through OIL's empanelled Third-Party Inspection Agency at Bidder's/Manufacturer's plant/premises as per the broad Scope of Work mentioned the tender. All costs towards the engagement of Third-Party Inspection Agency shall be borne by the contractor. At present, there are six OIL's empanelled Third-Party Inspection Agency as under:
 - i) M/s. Lloyds
 - ii) M/s. Bureau Veritas
 - iii) M/s. RITES
 - iv) M/s. IR CLASS System and Solutions Private Limited
 - v) M/s. Tuboscope Vetco
 - vi) M/s. DNV MES India Private Limited

Upon successful completion of the TPI and acceptance of the TPI reports by OIL, Bidder/Supplier shall be intimated by OIL for dispatch of the materials.

The materials should be dispatched only after receipt of dispatch clearance from OIL/PMC.

Acceptance of the TPI reports and receipt of dispatch intimation from OIL do not absolve the bidder from any warranty obligations or waive the bidder from OIL's right for rejection of the materials after receipt at site.

A. Materials to be Supplied by Company/Owner as Free Issue

- i. OIL shall supply coating materials to the Contractor as free issue material (FIM).
- ii. API 5L pipes (14" and 16") for preparation of straight spool pieces for installation of MIJ pipe sections except LR bend.
- iii. Supply of TLP and Surge Divertor

B. Materials to be supplied by Contractor

All materials (other than those mentioned in clause A above i.e. FIM), consumables, equipment required for completion and successful commissioning of entire MIJ system shall be procured and supplied by the Contractor as a minimum, the materials to be supplied by Contractor shall, but not limited by any way, be as follows:

- i. The procurement and supply, in sequence and at appropriate time, of all materials and consumables required for completion of the Work as defined in this bid document except the Company free issue material, shall be entirely the Contractor's responsibility and price quoted for the execution of the Work shall be inclusive of supply of all these materials.
- ii. All materials supplied by the Contractor shall be strictly in accordance with the requirements of relevant Company material specifications enclosed with the tender document.
- iii. All balance items and material required for the project, except the FIM Mentioned above, including cathodic protection material, monolithic insulating joints, LR Bend, stopple plug and accessories, consumables, spares, etc. shall all be included in contractor scope of supply.
- iv. All equipment, materials, components etc. shall be new and specifically purchased for this job. All material to be supplied by the Contractor shall be purchased from the approved vendors of the OIL/PMC, duly inspected by Third party inspection agencies mentioned in the bid documents.
- v. Any other material not specifically listed herein but required for successful completion of the Work.

C. Storage of Materials and Preservation

- i. The contractor must make available safe storage facility for storing the FIM and contractor's

material, as per project requirement. The storage shall be fully covered with adequate protection from moisture, dirt, dust, wind and ingress of foreign items.

- ii. The responsibility of storage, preservation and safeguard of all the material, including FIM, for the entire project duration, shall be in scope of contractor.
- iii. In case of pilferage or theft or wastage of FIM, cost of the FIM shall be recovered from the Contractor, as per recovery rate mentioned in the Tender.
- iv. All transportation of material including FIM, to and from the owner's store yard shall be in scope of Contractor.
- v. As far as possible materials shall be transported to the site of erection only just prior to the actual erection and shall not be left around indefinitely on ground.

III. Installation & Application Procedures

- The procedures for replacement of flanged Insulation Joint, installation of MIJ is attached as a part of the document for reference of the EPC contractor. However, the contractor shall be required to review the same and submit the application procedures on award of contract for PMC/Owner approval.
- Any procedure which is required for successful completion of the works at site, but not enclosed with the Tender, shall be prepared by the Contractor as part of the scope of work, and shall be reviewed and approved by the PMC / Owner.
- Similarly, all additional drawings, which are required for execution and successful completion of the works at site, but not enclosed with the Tender, shall be prepared by the Contractor as part of scope of work, and shall be reviewed and approved by the PMC / Owner.

IV. Project Planning and Scheduling

- Project Planning and Scheduling: The contractor is expected to perform proper planning based on the weather conditions of site and get regular weather forecasts from the meteorological department or other sources, as weather tracking would play a crucial part in project completion activity.
- Detail planning of material and manpower required for each activity. Plan and schedule mobilization of Manpower as per project schedule.
- Detail planning (in Primavera or equivalent software) of material and manpower required for each activity.
- Plan and schedule mobilization of Manpower as per project schedule. -One planning engineer

shall be deputed under this contract who shall be responsible for proper planning of execution works of those locations. OIL shall provide the platform to make project schedule in primavera software and planning engineer shall be responsible to make any changes / update in OIL's platform.

V. Manpower and Equipment

- i. Provide adequate manpower as per project requirement and timelines.
- ii. Provide all Tools, Tackles, Machines and Equipment required as per minimum equipment list attached.
- iii. All equipment provided by the Contractor for the project, shall be dedicated for this project only. Declaration for the same shall be submitted by bidder with the bid.
- iv. Safeguard and storage of all equipment, tools and tackles, machinery, vehicles etc, arranged by the Contractor, shall be in Contractors Scope of work.

VI. Camp Facility and Transportation

- i. Setup main office facility at any one location with RCM/project coordinator.
- ii. Setup camp facilities for workers/ project personnel at/near project site as per project requirement.
- iii. Provide adequate space, safe environment and working conditions for all workers.
- iv. Provide safe drinking water, sanitation and other basic needed facilities to all workers.
- v. Provide basic medical / first aid facilities.
- vi. Arrange for safe transportation of workers to and from the site.

VII. Quality Assurance (QA) and Quality Control (QC)

- a. Contractor shall prepare Quality Assurance & Quality Control Plan for project.
- b. Contractor shall Carryout proper documentation of inspection and quality assurance program for all equipment and bulk materials duly approved by Owner/owner's representative.

VIII. Site Construction Works

The work to be executed at site, as part of this project, shall include but not limited to the following works:

The work shall be completed conforming to specifications, data sheets, QAP as furnished in the tender and any other information provided by Engineer-In-Charge. The general scope of work includes broadly the following but not limited to:

- Contractors shall submit design calculations, stress on mainline and on weld connection, drawings, Hot Tap procedures for review and approval before taking up the work.
- Supply & Installation of MIJ.
- Supply & Installation of Hot Tapping etc.
- Supply & Installation of LR bends.
- Mobilization of necessary hot tapping equipment and accessories and before installation of hot tap connection, survey to ascertain the thickness of the parent pipe.
- Developing WPS for welding and establishing the same with qualified welders before actual Hot tap welding works. Approved procedure qualification record (PQR) shall be used to weld the joints.
- Contractor shall have the responsibility for supply and installation of shoring and shuttering materials before execution of work inside Repeater Station / SV Station.
- The following minimum activities required for completion of the job shall be in the scope of contractor:
 - Preparation of SOP of MIJ Installation, fit up report, weld visual report, hydrotesting report, As-built drawing for MIJ Installation etc.
 - NDT and UT test for welding works
 - Trenching on both upstream and downstream of repeater / SV Station
 - Pin brazing, painting and civil works for TLP Installation
 - Coating for S-bends, split tee and other fittings etc.
 - Backfilling and restoration of site
 - Repair of boundary wall (if any)
 - Civil support for MIJ Location (upstream and downstream)
 - Fixing and earthing of Surge Divertor at U/s and D/s of MIJ Location
 - Megger test of MIJ
 - Taking NOC (No objection certificate) from OIL post completion and site restoration.

- Any other job not mentioned above but required to complete the job in all respects shall be in the scope of contractor.
- All support services & required equipment like crane, hydra etc. and tool / tackles for loading/unloading and assembly & disassembly of hot tapping equipment will be arranged by CONTRACTOR. No additional payment will be made for the same. All required semi-skilled manpower like rigger, fitter, grinder, crane operator electrician etc. for hot tapping equipment will be arranged by contractor.
- All associated services required for the installation of TLP shall be in the scope of contractor. Painting of TLP Post, Pin Brazing, excavation, civil works, etc. and subsequent activities required for installation of TLP at repeater station / SV Station shall be in the scope of contractor.
- The Contractor is required to **visit the installation site** prior to submitting a bid in order to assess the pre-existing cabling and infrastructure. This is to ensure that no existing facilities are inadvertently damaged during execution.
- Any cables or materials that are damaged during the execution of work must be replaced by the Contractor at no additional cost. Replacement materials must match the specifications and quality of the originals.
- If existing facilities must be temporarily removed or displaced to carry out the work, the Contractor is responsible for supplying all necessary materials to fully restore the site to its original condition upon completion.
- The Contractor's obligations include protection, removal (if necessary), and restoration, whether the work affects power/data cabling, conduits, or accessory components, as assessed during the site visit. All costs related to replacement or restoration—as described above—are deemed included in the Contractor's bid price. No additional reimbursement will be made unless otherwise agreed in writing.
- Scope for supply of dewatering pump shall be in the scope of contractor. As per site conditions, the dewatering pump has to be deployed.
- Restoration of the work site inside RS (Repeater stations) to its original condition shall be the responsibility of contractor. Work shall be certified by concerned station-in-charge to process the bill.
- Construction of Pipe Support (Civil Works) of MIJ at repeater stations shall be in the scope of contractor.
- Dismantling of boundary wall of RS (Repeater stations) (if required during execution) shall be under the scope of contractor. After completion of work, it shall be Restored to its original condition. Post restoration of boundary wall, contractor needs to take clearance from the concerned station in charge / Engineer In charge of OIL. Post clearance, bills shall be processed

by OIL.

- Deployment of LEL detector during execution of work
- Obtaining all hot work permissions/ clearances/ permits from owner/ concerned authorities.
- Carry out Hydrotest and Commissioning of Hot tap works as per Specification and Standard.
- Follow-up of activities including Mobilization & demobilization of hot tapping machine.
- Hot tap machine operators and welders must be qualified in accordance with applicable codes and specifications. They should be thoroughly familiar with the welding and hot tap equipment and procedures to be used. Only skilled competent personnel should mount and assemble the hot tapping machine. These skills may be achieved either through on-the-job training or by a formal training program provided by the manufacturer of the hot tapping machine.
- All safety precaution shall be taken by the Contractor as advised by concerned authorities/ OIL. All safety tools and tackles, devices, apparatus, equipment, personal safety gazettes to be used as personal protective equipment (such as helmets, safety belts, safety shoes, etc.) including ladders and scaffolding etc. complete as recommended by Engineer-in-Charge as per relevant safety standards.
- All free issue materials shall be stored appropriately and shall be duly protected by the Contractor at his own cost.
- Contractor shall use Gas Detector Machine while executing works at his own cost.
- Contractor shall prepare Quality Assurance & Quality Control Plan for work. QAP samples are enclosed as part of bid shall be followed by Contractor. Contractor shall ensure adequate quality assurance and control including stage wise inspection, testing and certification.
- Contractor shall mobilize adequate manpower, machinery, tools, tackles, consumables etc for construction. Immediately after award of individual work, Contractor shall make a visit to the route to establish the route and familiarize with the working conditions so as to plan for deployment of manpower and machinery.
- Any other works not specifically listed herein but required for completion of the works in all respects.

3. CONTRACTOR'S RESPONSIBILITIES

Contractor's responsibilities, besides the scope of work to be performed by him defined earlier, shall also include the following:

- a. Engineering including drawings and installation procedures, engineering for procurement & fabrication, engineering for installation including drawings, QA/QC procedures, etc performed by the Contractor shall be reviewed and approved by Company. Contractor shall submit

engineering documents, drawings, procedures in hard copy to Company before start of construction work at site. All works shall be executed based on approved documents only.

- b.** The Contractor is cautioned to exercise extreme care and take necessary precautions to prevent damage to the existing pipeline(s), facilities, electrical and other cables during execution of the entire works. Restoration/reconstruction of all structures/ facilities affected during pipeline construction shall be carried out by Contractor.

c. AS BUILT DOCUMENT

On successful completion of hydrostatic testing, the Contractor shall prepare As Built drawings / reports for entire pipeline/piping system as specified in scope of work. All "As Built" drawings / reports shall be submitted as below.

- All Inspection & testing documents, Testing and NDT records. Radiographs/ UT of all weld joints.
- All WPS and PQR
- All purchase specification & procurement documents.

For final submission only 4 sets of documents plus the original transparencies shall be handed over by the contractor. Soft copy of all as-built drawings shall be also submitted in AutoCAD. Videography/ photograph of all major activities/ milestone achieved shall also be arranged with due permission from OIL and submitted by the contractor to OIL for final acceptance. Any construction done by the contractor without duly approved by the drawings shall be wholly at risk and cost Contractor shall also submit soft copy along with hard copy.

d. PROJECT CLOSE OUT

Contractor shall close out the project in all respect and submit all as built documentation, inspection reports, purchase orders, material reconciliation report, NDT records both in soft and hard copy duly approved by Engineer-In-Charge.

For final submission only 4 sets of hard documents plus the original transparencies shall be handed over by the contractor. Soft copy of all as-built drawings shall be also submitted in Auto CAD and Pdf documents.

e. INSURANCE OF MATERIAL PROCURED BY CONTRACTOR

All goods supplied under this contract shall be fully insured in the freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.