



**LAYING OF UNDERGROUND STEEL PIPELINE
AT TOLICHOWKI NALLAH AND PROVISION
OF PCC PROTECTION DUE TO SHALLOW
DEPTH AND STEEL PIPELINE TO CONNECT
THE M/S. SAIPRIYA FILLING STATION,
SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of II



BHAGYANAGAR GAS LIMITED

(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

**LAYING OF UNDERGROUND STEEL PIPELINE AT TOLICHOWKI
NALLAH AND PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO CONNECT THE
M/S. SAIPRIYA FILLING STATION, SHAPUR**

**UNDER OPEN DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/704/2025-26

VOLUME-II of II



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
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SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

CONTENTS

VOLUMEN II OF II

**SECTION 8 - SCOPE OF WORK & SPECIAL CONDITION OF
CONTRACT**

**Part A- Laying of underground steel pipeline at Tolichowki Nallah and
provision of PCC protection due to shallow depth**

**Part B- Laying of underground steel pipeline to connect the M/s.
Saipriya Filling Station, Shapur**

SECTION 9 - SCHEDULE OF RATES



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

SECTION-8

SCOPE OF WORK (SOW)

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Scope of Work (SOW)-PART -A

Project title:

Steel Pipeline Laying & MDPE Pipeline Rectification works under Tolichowki flyover

1. Project Overview

This project involves the Installation and rectification of gas pipeline infrastructure along a stretch under Tolichowki Flyover. The work includes the laying of a steel pipeline, MDPE pipeline rectification, associated fittings, tie-ins and hydrotesting, along with documentation.

2.Scope of Work

1.1 Pipeline Laying & Rectification

• **Steel Pipeline Laying:**

- Laying of approximately 320 meters of steel pipeline.
- Supply of all fittings (e.g., elbows, reducers, flanges) included in the laying cost.
- Alignment and gradient to be maintained as per project design and standards.

• **MDPE Pipeline Rectification:**

- Inspection and rectification of existing MDPE pipeline sections as identified.
- Removal and replacement of damaged sections with new MDPE pipe.
- Fusion joints to be carried out as per technical specifications.

2.2 Tie-in Joints

- Execution of Tie-in joints with existing pipeline networks.
- Compliance with all safety, purging, and commissioning standards during tie-ins.
- Restoration of pipeline coatings and wrapping at joint locations.

2. HDD Works

• **Design and Execution:**

- Prepare HDD bore profile considering flyover foundations and existing utilities.
- Execute pilot drilling, reaming, and pullback of 12” steel pipeline and 125 MDPE as per approved HDD plan.

3. Hydrotesting

- Hydrotesting of the newly laid and rectified pipeline sections.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- Testing to be conducted at prescribed pressure levels for specified durations.
- Submission of hydrotest reports and pressure charts.

4. Documentation & Compliance

4.1 Preparation and submission of the following for the entire stretch

4.2 Route Survey Report

4.3 As-Built Drawings (AutoCAD)

4.4 Material Reconciliation Statements

4.5 Welding & NDT Reports

4.6 Hydrotesting Certificates

4.7 Safety Compliance Reports

4.8 Photographic Documentation (Before, During, After Completion)

5. General Requirements

5.1 All works to comply with relevant gas utility and safety standards.

5.2 Work zone barricading, traffic diversion (if required), and public safety management.

5.3 Restoration of surface (asphalt/concrete/soil) to original condition post-work



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

SPECIAL CONDITIONS OF CONTRACT (PART-A)

1. Contract Period :- 06 months from the date of FOA/WO.

2. Payment Terms:

I.	MAINLINE WORKS		
A	Pipeline Laying with Associated Works by open cut (SOR item no.1.1 & 1.2)		
	After grading, stringing, trenching, welding, NDT, joint coating, lowering, and Backfilling (as per respective item rate of SOR)	:	65%
	Tie-in, NDT & field coating of tie-in joints (as per respective item rate of SOR) and backfilling of respective area.	:	10%
	Hydro-testing, dewatering & Swabbing incl. testing of PE pipe	:	10%
	Final cleanup and restoration (as per respective rate)	:	5%
	Submission of As built drgs. and documents line pipe book etc. and reconciliation of materials Final completion, handing over of complete pipeline system and acceptance of the system by Owner along with the final bill	:	10%
B	Restoration (SOR Item no.2.0)		
	On completion of work & certification by EIC	:	75%
	After obtaining NOC from concerned authorities	:	15%
	After completion of works and along with final bill	:	10%
C	Pipeline Laying by HDD/ boring / Moling (SOR item nos. 4.0)		
	On completion of HDD/Boring/moling	:	80%
	Final tie-in and testing	:	10%
	Submission of all as-built drawings material reconciliation and 5% closure of contract	:	10%
D	Supply of Long radius bends (SOR Item no.13.0)	:	
	On supply with TC	:	60%
	On lowering / erection at site	:	20%
	Testing & Commissioning	:	10%

Signature & Seal of Bidder



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PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

	After completion of works and along with final bill	:	10%
E	12" Rectification of Steel pipeline (SOR Item no.6.1)		
	12" Rectification including Balance Tie-ins, Hydro-testing, dewatering and Swabbing, Final cleanup, N2 Purging and restoration	:	65%
	Hydro-testing, dewatering & Swabbing incl. testing of PE pipe		10%
	Final cleanup and restoration (as per respective rate)		5%
	Submission of As built drgs. and documents line pipe book etc. and reconciliation of materials Final completion, handing over of complete pipeline system and acceptance of the system by Owner along with the final bill		10%
		:	

F	Liasioning activities (SOR no. 6)		
	On obtaining demand note from authorities	:	70 %
	Progressively, laying min 3 KM pipeline in single stretch.		20%
	After completion of works and along with final bill	:	10%

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
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PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

3.0 CONDITIONS FOR ISSUE OF MATERIALS

Whenever any material is issued by Owner, following conditions for issue of material in addition to other conditions specified in the contract shall be applicable:

3.1 Necessary indents will have to be raised by the Contractor as per procedure laid down by the Engineer-in-Charge from time to time, when he requires the above material for incorporation in permanent works.

3.2 Materials will be issued only for permanent works and not for temporary works, enabling works etc. unless specifically approved by the Engineer-in-Charge and the same shall not be taken into account for the purpose of materials reconciliation.

3.3 The Contractor shall bear all other cost including lifting, carting from issue points to work site/Contractor's store, custody and handling etc. and return of surplus/serviceable scrap materials to Owner's storage points to be designated by the Engineer-in-Charge etc. No separate payment for such expenditure will be made.

3.4 No material shall be allowed to be taken outside the plant without a gate pass.

3.5 The Contractor shall be responsible for proper storage, preservation and watch & ward of the materials.

3.6 RETURN OF UNUSED MATERIAL

3.6.1 All unused/scrap materials shall be the property of the Owner and shall be returned in good and acceptable condition size wise, category wise by the Contractor at his own cost to Owner's Store(s).

3.6.2 No credit will be given to the Contractor for return of scrap. The Contractor should quote the rates accordingly.

3.6.3 In case the Contractor fails to return unused/scrap materials, then recovery for such quantity of materials, not returned by the Contractor shall be affected at following penal rates from the Contractor's bills or from any other dues of the Contractor to the Owner. Contractor shall make his own arrangements for weighing the off cuts to be returned to Owner's stores.

3.6.4 Penal Rates for non- return / return of materials :

Sl.No. Material Penal Rates

(a) Penal rate for non return of Issue Rate + 25% accountable scrap or Landed Rate + 25% (in case issue rate are not indicated in the contract)

(b) Penal rates for non return of Twice the Issue Rates Unused material/excess scrap or Twice the Landed Rates (in case Issue Rates are not indicated in the Contract)

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

(c) Penal rate for return of Issue Rate + 75% excess scrap or Landed Rate + 75% (in case issue rate are not indicated in the contract)

(d) Penal rate for return of Issue Rate + 50% excess serviceable materials or Landed Rate + 50% (in case issue rate are not indicated in the contract)

NOTE: 1) Landed Rate shall be arrived from the latest Purchase Order of respective material received at site by Owner.

2) In case different penal rates have been indicated in the Contract (based on Project requirement), the same will supersede the above rates.

4.0 LINE PIPES

4.1 All coated line pipes as per Line Pipe specifications shall be issued on linear measurement basis. The line pipes shall be issued in available lengths and shapes and no claim for extra payment on account of issue of non-standard length and shape will be entertained. Contractor shall store and maintain the line pipes in proper manner to avoid mixing of different classes of pipes. Contractor shall maintain complete identification and traceability at all times. All cut pieces when returned to Owner's storage points after bevelling, shall be considered as serviceable material provided:

4.1.1 Corrosion Protection Coating is intact.

4.1.2 Pipe pieces have pipe specifications, manufacturer's logo/name and heat number duly authenticated with hard stamp of the authorised inspector as per approved procedure.

All cut pieces of pipes measuring less than 2 M will be treated as wastage/scrap.

4.2 For the purpose of accounting of coated line pipes, following allowances shall be permitted:

a) Unaccountable wastage 0.1%

b) Scrap (All cut pieces of pipes measuring 0.25% less than 2 Meter)

c) Serviceable materials (All cut pieces of pipe 0.5% measuring 2 Meter and above) Scrap shall be accounted at actuals as per site assessment subject to maximum limits as stated above.

The percentage allowance shall be accounted on the basis of pipe book chainage for main pipeline

4.2.1 Material appropriation shall be done & allowable scrap quantity calculated. The wastage generated by the Contractor in excess of the allowable percentage shall be charged at the penal rates as given in the contract.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

5.0 MOBILIZATION ADVANCE

5.1 NO Mobilization Advance will be given for this Tender.

6.0 TIME OF COMPLETION

6.1 The work shall be executed strictly as per Time schedule six months in the bidding document.

The period of completion given includes the time required for mobilization [15 (Fifteen) Days] as well as testing, rectifications, if any, retesting and completion (Commissioning) in all respects to the entire satisfaction of the Engineer-in-Charge.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

SCOPE OF WORK: PART-B

Project title:

Steel Pipeline Laying & MDPE Pipeline Rectification works at Balanagar and Shapur area

1. Project Overview

This project involves the Installation and rectification of gas pipeline infrastructure along a stretch at Balanagar and Shapur. The work includes the laying of a steel pipeline, MDPE pipeline rectification, associated fittings, tie-ins and hydrotesting, along with documentation.

2. Scope of Work

2.1 Pipeline Laying & Rectification

• **Steel Pipeline Laying:**

- Laying of approximately 841 meters of 6” Steel pipeline along with 125MM MDPE.
- Supply of all fittings (e.g., elbows, reducers, flanges) included in the laying cost.
- Alignment and gradient to be maintained as per project design and standards.

• **MDPE Pipeline Rectification:**

- Inspection and rectification of existing MDPE pipeline sections as identified.
- Removal and replacement of damaged sections with new MDPE pipe.
- Fusion joints to be carried out as per technical specifications.

2.2 Tie-in Joints

- Execution of Tie-in joints with existing pipeline networks.
- Compliance with all safety, purging, and commissioning standards during tie-ins.
- Restoration of pipeline coatings and wrapping at joint locations.

3. HDD Works

• **Design and Execution:**

- Prepare HDD bore profile considering existing utilities.
- Execute pilot drilling, reaming, and pullback of 6” steel pipeline and 125 MDPE as per approved HDD plan.

4. Hydrotesting

- Hydrotesting of the newly laid and rectified pipeline sections.
- Testing to be conducted at prescribed pressure levels for specified durations.
- Submission of hydrotest reports and pressure charts.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

5. Documentation & Compliance

- Preparation and submission of the following for the entire stretch
- Route Survey Report
- As-Built Drawings (AutoCAD)
- Material Reconciliation Statements
- Welding & NDT Reports
- Hydrotesting Certificates
- Safety Compliance Reports
- Photographic Documentation (Before, During, After Completion)

6. General Requirements

- All works to comply with relevant gas utility and safety standards.
- Work zone barricading, traffic diversion (if required), and public safety management.
- Restoration of surface (asphalt/concrete/soil) to original condition post-work

7. Contract Period :- 06 months from the date of FOA/WO.



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

SPECIAL CONDITION OF CONTRACT-PART-B

GENERAL

- 1.1 Special Conditions of Contract shall be read in Conjunction with the General conditions of Contract, specification of work, Drawings and any other documents forming part of this Contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the documents into these separate sections and volumes, every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the Contract so far as it may be practicable to do so.
- 1.3 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the special Conditions of Contract shall be deemed to over- ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 1.4 Wherever it is mentioned in the specifications that the Contractor shall perform certain work or provide certain facilities, it is understood that the Contractor shall do so at his own cost and the value of contract shall be deemed to have included cost of such performance and provisions, so mentioned.
- 1.5 The materials, design, and workmanship shall satisfy the relevant Indian Standards, the Job Specifications contained herein and Codes referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.6 In case of an irreconcilable conflict between Indian or other applicable standards, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings or Schedule of Rates, the following shall prevail to the extent of such irreconcilable conflict in order of precedence :
 - i) Letter of Acceptance along with Statement of Agreed Variations.
 - ii) Fax / Letter of Intent / Fax of Acceptance.
 - iii) Schedule of Rates as enclosures to Letter of Acceptance.
 - iv) Job / Particular Specifications.
 - v) Drawings
 - vi) Technical / Material Specifications.
 - vii) Special Conditions of Contract.
 - viii) Instruction to Bidders
 - ix) General Conditions of Contract.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- x) Indian Standards
- xi) Other applicable Standards

- 1.7 It will be the Contractor's responsibility to bring to the notice of Engineer-in-Charge any irreconcilable conflict in the contract documents before starting the work (s) or making the supply with reference which the conflict exists.
- 1.8 In the absence of any Specifications covering any material, design of work (s) the same shall be performed / supplies / executed in accordance with Standard Engineering Practice as per the instructions / directions of the Engineer-in-Charge, which will be binding on the Contractor.

SCOPE OF WORK & SCOPE OF SUPPLY

GCC clause no.2.2 is modified as below:

- 2.1 The scope of work covered in this Contract will be as described in Annexure-1, Particular job specifications, Standard Specifications, Schedule of Rates etc. The scope of supply covered in this Contract will be as described in Annexure-2, Particular Job Specifications, Standard Specifications, Schedule of Rates etc. It is however, explicitly understood that scope described is not limiting, in far as the responsibilities of the contractor are concerned and shall include, interalia, carrying out any and all works and providing any and all facilities as are required to complete the works in all respect.

3.0 SUPPLY OF WATER, POWER & OTHER UTILITIES

3.1 The Clause No. 2.3 to 2.5 given in General Conditions of Contract is modified to following extent:

- 3.2 The Contractor shall be responsible at his own cost for arranging and providing all the required Water, Power, land required for temporary site office , fabrication yard and other utilities, in the quantities and at the times required for performance of work under the contract. The contract price shall be deemed to include all costs towards the same. The Employer/Consultant shall not supply water, power and other utilities.
- 3.3 Contractor shall, if required by him, for the entire duration of the execution of the work make available near the site, land for construction of Contractor' s office, Warehouse, Workshops and for any purpose in connection with providing infrastructure required for the execution of the Contract. The Contractor shall at his own cost construct all temporary buildings and provide suitable water supply and sanitary arrangement as required. On completion of the work undertaken by the Contractor, he shall remove all temporary works erected by him and have the site cleared as directed by Engineer-in- Charge. If the Contractor shall fail to comply with these requirements, the Engineer-in- Charge may at the expense of the Contractor remove such surplus and rubbish materials and dispose off the same as he deems fit and get the site



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

cleared as aforesaid, and the Contractor shall forthwith pay the amount of all expenses so incurred and shall have no claims in respect of any such surplus material disposed of as aforesaid.

- 3.4 Cutting of trees shall not be permitted except in the case that tree is falling on the line of Pipe line alignment. In such circumstances, details of such tree being cut shall be prepared and forest/ municipal authorities be informed and necessary approval be obtained by contractor. However, after backfilling of trench & restoration, contractor should plant equal number of saplings in that area, cutting of tree for any purposes (fuel etc.) by workers are strictly prohibited.

4.0 TIME OF COMPLETION

- 4.1 The work shall be executed strictly as per Time schedule given in Annexure-3 in the bidding document. The period of completion given includes the time required for mobilization [15 (Fifteen) Days] as well as testing, rectifications, if any, retesting and completion in all respects to the entire satisfaction of the Engineer-in- Charge.
- 4.1.1 The time of completion is applicable for complete work.
- 4.2 A joint programme of execution of work will be prepared by the Engineer-in-Charge and Contractor. This programme will take into account the time of completion mentioned above.
- 4.3 Monthly/ weekly construction programme will be drawn up by Engineer-in-Charge jointly with the contractor based on availability of work fronts and the joint construction programmes as above clause. The Contractor shall scrupulously adhere to these Targets/ Programme by deploying adequate personnel, construction tools & tackles and he shall also supply himself all materials of his scope of supply in good time to achieve the targets set out in the weekly and monthly programme. In all matters concerning the extent of targets set out in the weekly and achievements, the decision of the Engineer-in-Charge shall be final and binding on the contractor.
- 4.4 If the Contractor fails to achieve the targeted progress schedule of each month, the Employer/Consultant at its option, may terminate the contract as contractor's default and get the work completed from other sources at contractor's risk & cost.
- 4.5 Contractor shall give every day report on category wise labour and equipment deployed along with the progress of work done on previous day in the proforma prescribed by the Engineer-in-Charge.
- 4.6 The contractor shall submit fortnightly report covering all major activities indicating schedule / actual progress, slippages & its reasons and catch up plan.
- 4.7 No waiver shall be attributable to the stoppage due to union activities & due to the influence of trade unionism and adverse weather conditions.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

5.0 DRAWINGS AND DOCUMENTS

- 5.1 The drawings accompanying the bid document (if any) are of indicative nature and issued for bidding purpose only. Purpose of these drawing is to enable the bidder to make an offer in line with the requirements of the Employer/Consultant. However, no extra claim whatsoever, shall be entertained for variation in the "Approved for Construction" and "Bid document drawings" regarding any changes/units. Construction shall be as per drawings/specifications issued/approved by the Engineer-in-Charge during the course of execution of work. Detailed construction drawings (wherever required) on the basis of which actual execution of work is to proceed will be prepared by the contractor.
- 5.2 The drawings and documents to be submitted by the Contractor to Employer/Consultant after award of the work as per the requirements enlisted in the bidding document shall be for Employer/Consultant's review, information and record. The Contractor shall ensure that drawings and documents submitted to Employer/Consultant are accompanied by relevant calculations, data as required and essential for review of the document/ drawings. BGL/PMC shall review the drawings/ documents within two weeks from the date of submission provided the same are accompanied by relevant calculations, data as required and essential for review.
- 5.3 All documents and drawings including those of Contractors sub-vendor's manufacturer's etc. shall be submitted to Employer/Consultant after having been fully vetted in detail, approved and co-opted by the Contractor & shall bear Contractor seal/ certifications to this effect. All documents/drawings & submissions made to Employer/Consultant without compliance to this requirement will not be acceptable and the delay & liability owing to this shall be to the Contractor's account.
- 5.4 The review of documents and drawings by Employer/Consultant shall not absolve Contractor from his responsibility to meet the requirements of specifications, drawings etc. and liabilities for mistakes and deviations. Upon receiving the comments on the drawing/documents reviewed by Employer/Consultant, Contractor shall incorporate the comments as required and ensure their compliance.
- 5.5 Copies of all detailed working drawing relating to the works shall be kept at the contractors' office at the site and shall be made available to the Engineer-in-charge/ Employer/Consultant at any time during execution of the contract. However, no extra claim what so ever shall be entertained for any variation in the "approved/issued for construction drawings" and "tender drawings" regarding any changes/units unless otherwise agreed.
- 5.6 The Contractor shall rectify any inaccuracies, errors and non-compliance to contractual requirements. Any delay occurring on this shall not construe a reason for delay/ extension.
- 6.0 COMPLIANCE WITH LAWS
- 6.1 The Contractor shall abide by all applicable rules, regulations, statutes, laws governing the performance of works in India, including but not limited to the following:

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- i) Contract Labour (Regulation & Abolition) Act 1970 & the centre rules, 1971 framed there under.
- ii) Payment of Wages Act.
- iii) Minimum Wages Act.
- iv) Employer's Liability Act.
- v) Factory Act.
- vi) Apprentices Act.
- vii) Workman's Compensation Act.
- viii) Industrial Dispute Act.
- ix) Environment Protection Act.
- x) Wild life Act.
- xi) Maritime Act.
- xii) Any other Statute, Act, Law as may be applicable.
- xiii) PNGRB Act.

7.0 GOVERNMENT OF INDIA NOT LIABLE

GCC clause no.4.8 is modified as below:

- 7.1 It is expressly understood and agreed by and between the Contractor and the Employer/Consultant that the Employer/Consultant is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to this agreement and has no liabilities, obligations or rights there under. It is expressly understood and agreed that the Employer/Consultant is an independent legal entity applicable laws of India and general principal of Contract Law. The Contractor expressly agrees, acknowledges and understands that the Employer/Consultant is not an agent, representative or delegate of Govt. of India. It is further understood and agreed that the Govt. of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the contract. Accordingly, contractor hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Govt. of India arising out of this contract and covenants not to sue to Govt. of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.

8.0 LIMITATION OF LIABILITY

GCC clause no. 80.3 is modified as below:

- 8.1 The final payment by the Employer/Consultant in pursuance of the Contract terms shall not mean release of the Contractor from all of his liabilities under the Contract. The Contractor

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

shall be liable and committed under this contract to fulfil all his liabilities and responsibilities, till the time of release of contract performance guarantee by the Employer/Consultant.

- 8.2 Notwithstanding anything contrary contained herein, the aggregate total liability of Contractor under the Contract or otherwise shall be limited to 100% of Contract value. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profit or loss of production.

9.0 INCOME TAX & CORPORATE TAX

- 9.1 Income Tax deductions shall be made from all payments made to the Contractor as per the rules and regulations in force in accordance with the Income Tax Act prevailing from time to time.

- 9.2 Corporate Tax liability, if any, shall be to the contractor's account.

- 9.3 TDS, wherever applicable, shall be deducted as per applicable act/law/rule

9.4 MENTIONING OF PAN NO. IN INVOICE/BILL

As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory for procurement of goods / services/works/consultancy services exceeding Rs. 2 Lacs per transaction.

Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the notification, in case supplier/ contractor/ service provider/ consultant do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction.

Payment of supplier/ contractor / service provider/ consultant shall be processed only after fulfilment of above requirement.

As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory for procurement of goods / services/works/consultancy services exceeding Rs. 2 Lacs per transaction.

Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the notification, in case supplier/ contractor/ service provider/ consultant do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction.

Payment of supplier/ contractor / service provider/ consultant shall be processed only after fulfilment of above requirement.

10.0 CUSTOM DUTY

- 10.1 The Contract Price shall include the following duties i.e. Custom Duties, CVD, additional CVD

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

for all materials and consumables envisaged to be imported for incorporation in the permanent works. It shall be clearly understood by the Contractor that custom duty shall neither be paid nor reimbursed by Employer/Consultant. Contractor shall be fully responsible for port clearance including stevedoring, handling, unloading, loading, storage, inland transportation and receipt of materials at site etc. and cost thereof shall be included in the contract price. The contractor shall also be fully responsible for any delays, penalties, demurrages, shortages and other charges and losses, if any, in this regard.

10.2 DELETED

11.0 CUSTOM DUTY ON CONSTRUCTION EQUIPMENTS

11.1 Contractor is liable to pay custom duty on the equipments brought into India for executing the project. The Contractor shall be fully liable for observing all the formalities in this regard as well as to pay the custom duty chargeable on the equipments, including any deposit payable for such purposes. No adjustment in contracted rates shall be permissible for any change in duty drawback applicable in respect of equipment & machinery brought in India for the use of the project and for re-export of equipment and machinery, on completion of the project.

11.2 If the Custom Authorities require the Contractor to furnish a bond to secure payment of any custom duty in respect of any import and that such Bond shall be furnished by the Employer/Consultant, the Employer/Consultant may at the request of the Contractor furnish the said Bond against the Contractor furnishing a Bank Guarantee to the Employer/Consultant, of the like amount in the form and from a Bank in India approved by the Employer/Consultant.

11.3 If for any reason the Employer/Consultant is required by the Customs Authorities during pendency of Contract to pay any customs duty due to the importation or retention by the Contractor of any imports, the Contractor shall forthwith on demand by the Employer/Consultant pay the same to the Employer/Consultant, with the right in the Employer/Consultant (without prejudice to any other mode of recovery or right of the Employer/Consultant) to deduct the same from the on account and other payments due and/or becoming due or payable to the Contractor from time to time. The payments under such a case shall be subject to submission of Bank Guarantee from a Bank approved by Employer/Consultant, by the Contractor in favour of the Employer/Consultant for an amount equivalent to amount of custom duty.

11.4 The obligations undertaken and/or any bond or facility provided by the Employer/Consultant to the Contractor shall be based on the clear understanding that the said equipment shall be utilised by the Contractor only for the performance of the work covered under this contract and that the Employer/Consultant shall be discharged forthwith from all said obligations and shall be entitled forthwith to discontinue and recall any bond or other facility to the Contractor if the Contractor shall utilise or permit to be utilised the said equipment(s) or any of them for the performance of any work other than the work covered by the Contract in which event any

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

amount due from Contractor in this connection shall also carry interest @22% (Twenty two percent) per annum from the date of relative payment by Employer/Consultant up to the date of recovery in full.

12.0 ISSUE OF ESSENTIALITY CERTIFICATE

BGL shall not provide any kind of certificate.

13.0 IMPORT LICENCE

13.1 Contractor shall arrange import of all materials required for permanent incorporation in the works as well as construction equipment as per the guidelines laid down by the Government of India. Employer shall not provide import licence.

14.0 WITHHOLDING, ACCOUNTING AND TAX REQUIREMENTS

14.1 Contractor agrees for withholding from wages and salaries of its agents, servants or employees all sums, required to be withheld by the laws of the Republic of India or any other agency having jurisdiction over the area where Contractor is conducting operations, and to pay the same promptly and directly when due to the proper authority. Contractor further agrees to comply with all accounting and reporting requirements of any Nation having jurisdiction over the subject matter hereof and to conform to such laws and regulations and to pay the cost of such compliance. If requested, Contractor will furnish the evidence of payment of applicable taxes, in the country(ies) of the Contractor's and his sub-contractor(s) and expatriate employees.

15.0 INTELLECTUAL PROPERTY

15.1 Neither Employer/Consultant nor Contractor nor their personnel, agents nor any sub-contractor shall divulge to any one (other than persons designated by the party disclosing the information) any information designated in writing as confidential and obtained from the disclosing party during the course of execution of the works so long as and to the extent that the information has not become part of the public domain. This obligation does not apply to information furnished or made known to the recipient of the information without restriction as to its use by third parties or which was in recipient's possession at the time of disclosure by the disclosing party. Upon completion of the works or in the event of termination pursuant to the provisions of the contract, Contractor shall immediately return to Employer/Consultant all drawings, plans, specifications and other documents supplied to the Contractor by or on behalf of Employer/Consultant or prepared by the Contractor solely for the purpose of the performance of the works, including all copies made thereof by the Contractor.

16.0 FIRM PRICE

16.1 The quoted prices shall be firm and shall not be subjected to price escalation till the work is completed in all respects.

17.0 WORKS CONTRACT

17.1 The work covered under this contract shall be treated as "Works Contract".

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

18.0 PROVIDENT FUND ACT

18.1 The Contractor shall strictly comply with the provisions of Employees Provident Fund Act and register themselves with RPFC before commencing work. The Contractor shall deposit Employees and Employers contributions to the RPFC every month. The Contractor shall furnish along with each running bill, the challan/ receipt for the payment made to the RPFC for the preceding months.

19.0 MOBILIZATION ADVANCE

19.1 NO Mobilization Advance will be given for this Tender.

20.0 CHANGE ORDERS/ EXTRA WORKS/ DEVIATIONS

20.1 A change order will be initiated in case:

i) The Employer/Consultant directs the Contractor to include any addition to the scope of work not covered under this contract or delete any Section of the scope of the work under the contract.

ii) Contractor requests to delete any part of the work which will not adversely affect the operational capabilities of the project and if agreed by the Employer/Consultant and for which cost and time benefits shall be passed on to the Employer/Consultant.

20.2 Any changes required by the Employer/Consultant before giving their approval to detailed procedure or any other document relating to material procurement, layout plans etc for complying with the requirements of bidding document shall not be construed to be a change in the scope of work under the contract.

20.3 Any change order as above comprising an alteration which involves a change in the cost of the works (which sort of alteration is hereinafter called a "Variation") shall have impact on the contract value that shall be dealt towards end of contract. All change orders shall be approved by the EIC.

20.4 If the contract provides applicable rates for the valuation of the variation in question the contract price shall be increased or decreased in accordance with those rates. If the parties agree that the contract does not contain applicable rates then the parties shall negotiate a revision of the contract price which shall represent the change in cost of the works caused by the variations. Any change order must be duly approved by the Employer/Consultant in writing.

20.5 If there is a difference of opinion between Contractor and Employer/Consultant whether a particular work constitutes a change order or not, the matter shall be handled in accordance with the procedures set forth in para 20.7.8 and 20.7.9 here below.

20.6 Within 10(Ten) working days of receiving the comments from the Employer/Consultant on the documents submitted by the Contractor for approval, the Contractor's response in writing stating which item(s) is/are potential change (s), if applicable, will be submitted to the Employer/Consultant.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

20.7 Procedure

- 20.7.1 During execution of work if the Contractor observes that any new requirements which is not specific or intended in the bidding document has been indicated by Employer/Consultant, they shall discuss the matter with Employer/Consultant's representatives.
- 20.7.2 In case such requirement arises from the side of the Contractor they would also discuss the matter with Employer/Consultant's Representative.
- 20.7.3 In either of the two cases above, the representatives of both the parties shall discuss the project requirement and mutually decide whether the project requirement constitutes a change order.
- 20.7.4 If it is mutually agreed that the project requirement/Inquiry constitutes a "Change Order" then a joint memorandum will be prepared to confirm a "Change Order" and basic ideas of necessary agreed modifications.
- 20.7.5 Contractor will study the work required in accordance with the Joint memorandum and assess subsequent schedule and cost effect if any.
- 20.7.6 The results of this study would be discussed mutually to enable Employer/Consultant to give a final decision whether Contractor should proceed with the Change Order or not, in the best interest of the Project.
- 20.7.7 If Employer/Consultant's representative accepts the change order in writing then Contractor shall proceed with the work stipulated in the Change order. Time worked by all workmen employed and a statement showing the description and quantity of all materials and plant utilised for extra work shall be submitted to Employer/Consultant. The Employer/Consultant's representative shall sign and return to the Contractor the statement, as agreed. At the end of each month the Contractor shall deliver to the Employer/Consultant's representative a priced statement of the labour, materials and plant used. Whenever any dispute arises as to cost allocation between the Contractor and the Employer/Consultant, the voucher shall nevertheless be signed by the Employer/Consultant as a record of time worked and materials used. List and vouchers so signed will be the subject of negotiations between the Employer/Consultant and the Contractor regarding their costs allocation.
- 20.7.8 In case, mutual agreement as above that is whether Project Requirement constitutes a Change order or not, is not reached, then Contractor, in the interest of the project, shall take up the implementation of the work, if advised in writing to do so by Employer/Consultant's representative pending settlement between the two parties to the effect whether the Project Requirement constitutes a change order or not as per the terms and conditions of Contract Documents.
- 20.7.9 The time and cost effect in such a case shall be mutually verified for the purpose of record. Should it be established that the said work is constituting a Change Order, the same shall be compensated taking into account the records kept and in accordance with the contract.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

20.7.10 Should the amount of Extra Work/ Change Order, if any, which the Contractor may be required to perform by the Employer/Consultant, fairly entitles the Contractor to extensions of time beyond the scheduled completion date for completion of either the whole of the works or for such Extra Work only, the Employer/Consultant and the Contractor shall mutually discuss and decide the extension of time, if any to be granted to the Contractor.

21.0 CONSTRUCTION OF PIPE LINE ALIGNMENT AND PERMITS:

21.1 Contractor shall carry out construction work within the width as made available to him. Where the pipeline route passes through forest/plantation areas contractor shall clear only the minimum width required for laying the pipeline as per Company's approved procedure for pipeline construction. Felling of trees/plants shall be minimized. Damage to any obstruction, temporary/permanent structure, boundary walls etc. within pipe line alignment shall be repaired and restored and cost of repairs/restoration shall be to Contractor's account.

21.2 The Contractor must ensure that during laying of the pipeline minimum damage occurs to the land. The land has to be restored to original condition. All construction activities shall be in accordance with the local Government regulations and shall be performed by the competent and qualified persons for providing adequate protection to the general public, livestock, wild life, forest, power lines, buildings etc. in the vicinity of the pipeline.

21.3 Due measures for working within deep trench must be taken including necessary safety precautions for the workers.

During pipeline construction, measures shall be adopted in order to minimize the impact of pipeline construction activities on the environment. During ROU clearance, the vegetation shall be cut off at ground level leaving the roots intact. Only stumps and roots directly over the trench shall be removed for pipeline Installation.

21.4 In case of any detour from the acquired ROU due to constructability problems or otherwise, contractor may be permitted to do so after approval from CA / Company. All immediate measures for taking the land and compensations to land owner(s) shall be to Contractor's account. All statutory payments shall be paid/ reimbursed by Company. However, such activity shall not affect the construction schedule and overall completion period. In case of local detour due to non availability of Legal ROU, contractor has to negotiate and arrange the ROU for laying of pipe line without affecting the schedule. Compensation payable under P&MP act shall be paid by BGL. All other costs if any shall be to the contractors account. Company shall proceed with regular notifications etc. in due course for the detoured portion.

21.5 Clean-up and restoration of ROU and other conveniences like road, rail, canals, cultivable land, water facilities, irrigation facilities, boundary wall/fence etc. to original condition as per specification and drawings to the entire satisfaction of Company and/or Landowner/Cultivator/ Authorities having jurisdiction over the same, including disposal of surplus excavated soil and other construction materials to a location identified by Contractor approved by local authority without causing any disturbance to environment and to the entire satisfaction of Company.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

21.6 Contractor shall arrange necessary clearance from the concerned authorities/land owners to the effect that ROU/ ROW has been restored back to original condition. Contractor shall carry out joint survey with representative of Competent Authority (CA) and will obtain clearance in writing from CA that ROU has been restored to original condition. Necessary clearance from statutory authority / NOC for restoring the ROU to original condition shall be in Contractor's scope. However, if the owner does not give the NOC, payment may be released to the contractor if the restoration is done by Engineer-in-charge as per the tender specifications.

21.7 Local state Government may impose Taxes/ Duties/ royalty etc. towards the excavation and filling of earth for the pipe line and terminals works. It is the responsibility of contractor to make such payments without any cost implications to BGL.

21.8 Contractor is required to maintain a hindrance register. All hindrances encountered in the execution needs to be logged in this register and shall be jointly signed.

22.0 CONSTRUCTION EQUIPMENT AND ORGANIZATION

22.1 CONSTRUCTION EQUIPMENT

22.1.1 Bidder shall meet the requirement regarding deployment of minimum construction equipments as specified in the Bidding Document at Annexure-9. Bidder shall also submit their compliance for deployment of equipments as above along with the bid.

22.1.2 Deleted.

22.1.3 The Employer/Consultant shall not supply any Construction Equipment.

22.2 MANPOWER DEPLOYMENT

22.2.1 Bidder shall meet the requirement regarding deployment of minimum construction manpower for individual Section as specified in the bidding document at Annexure-10.

Bidders who intend to quote for more than one Section shall meet the requirement equal to the sum of the construction manpower specified for individual Section. Bidder shall also submit their compliance for deployment of manpower along with the bid.

22.2.2 Schedule of Labor & Equipment Rates

Hiring / Recovery Rate for Deployment of Manpower attached as Annexure-11 to SCC shall be used for analyzing rates for extra items and recovery for nondeployment of manpower.

22.2.3 Equipment Hiring / Recovery Rates attached as Annexure-12 to SCC shall be used for analysing rates for extra items and recovery for non-deployment of equipment.

23.0 MECHANISED CONSTRUCTION

23.1 Contractor shall without prejudice to his overall responsibility to execute and complete the work as per specifications and time schedule adopt as far as practicable, mechanized construction techniques for major site activities. Contractor agrees that he will deploy the required numbers

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

and types of the plant & machinery applicable for different activities in consultation with the Engineer in- charge during execution of works.

- 23.2 Contractor further agrees that Contract price is inclusive of all the associated costs, which he may incur for actual mobilization, required in respect of use of mechanised construction techniques and that the Employer/Consultant/Consultant in this regard shall entertain no claim whatsoever.

24.0 GENERAL GUIDELINES DURING AND BEFORE ERECTION

- 24.1 Contractor shall be responsible for organising the lifting of the equipment in the proper sequence, that orderly progress of the work is ensured and access routes for erecting the other equipments are kept open.
- 24.2 Orientation of all foundation, elevations, lengths and disposition of anchor bolts and diameter of holes in the supports saddles shall be checked by contractor, well in advance. Minor rectifications including chipping of foundations as the case may be shall be carried out at no extra cost by the contractor after obtaining prior approval of the Engineer-in-Charge. The Contractor shall also be provided with the necessary structural drawings and piping layouts etc., wherever required for reference. During the structural member need to be dismantled, to facilitate the equipment erection, same shall be done by the contractor after ensuring proper stability of main structure with prior permission of Engineer-in-Charge. All such dismantled members shall be put in position back after the completion of equipment erection to satisfaction of Engineer-in- Charge.
- 24.3 During the performance of the work the Contractor at his own cost, shall keep structures, materials and equipment adequately braced by guys, struts or otherwise approved means which shall be supplied and installed by the Contractor as required till the installation work is satisfactorily completed. Such guys, shoring, bracing, strutting, planking supports etc. shall not interfere with the work of other agencies and shall not damage or cause distortion to other works executed by him or other agencies.
- 24.4 Manufacturer's recommendations and detailed specifications for the installation of the various equipment and machines will be passed on to the contractor to the extent available during the performance of work. The requirements stipulated in these clauses shall be fulfilled by the Contractor.
- 24.5 Various tolerances required as marked on the drawings and as per specifications and instructions of the Engineer-in-Charge, shall be maintained. Verticality shall be maintained. Verticality shall be verified with the Theodolite.

24.6 ERECTION OF EQUIPMENTS

- 24.6.1 All the erection shall be carried out by Cranes of suitable capacity. Erection by derrick shall not be permissible. The contractor shall arrange the crane of suitable capacity required for erection and include cost for same in respective items without any liability on the part of

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Employer/Consultant.

24.6.2 Bidder shall submit the indicative erection scheme for compressor/equipment and shall undertake the erection only after obtaining approval of erection scheme by Engineer- in-charge.

24.6.3 Grouting of equipments, anchor bolts, pockets and under base plates shall be carried out as per technical specifications.

25.0 MEASUREMENT OF WORKS

25.1 In addition to the provisions of relevant clause of GCC and associated provisions thereof, the provisions of Annexure-4 shall also apply.

26.0 TERMS OF PAYMENT

26.1 Basis and terms of payment for making "On Account Payment" shall be as set out in Annexure-5.

27.0 REPAIR OF PIPE DEFECTS

27.1 Immediately prior to aligning pipe for welding, the bevelled ends of each joint of pipe and the area immediately adjacent thereto (at least 25mm from the edge on the inside and outside of the pipe) shall be thoroughly cleaned of paint, rust, mill scale, dirty or other foreign matter by use of power drive wire buffing wheels, disc sanders, or by other methods approved by Employer/Consultant. This shall be done at no extra cost to Employer/Consultant.

27.2 All damaged ends of pipe that are bent, cut or otherwise mutilated to such an extent that in the opinion of the Employer/Consultant, faulty alignment or unacceptable welding would result, shall be repaired or cut-off and rebevelled to the correct angle with a bevelling machine of a type approved by Employer/Consultant. No compensation shall be allowed by reason of such recutting or bevelling, except when required because of the original bevel being damaged before the pipe is "taken over" by Contractor.

27.3 Dents in bevels with a depth of less than 1 mm shall be removed by Contractor during cleaning and grinding, ahead of the welding in the field. Contractor shall rebevel dented bevel ends with a depth between 1 and 3 mm. Dents over 3mm depth shall be repaired by cutting and rebevelling.

28.0 ISSUE OF EMPLOYER/CONSULTANT SUPPLIED MATERIAL

28.1 The conditions for issue of material and reconciliation refer enclosed Annexure-8.

28.2 The reconciliation of material shall be applicable only for the material issued by Employer/Consultant as free issue to the contractor.

29.0 LOCATION OF DUMPYARD / WAREHOUSE / STORAGE YARD

29.1 The Dumpyard / Warehouse / Storage Yard is situated at the locations as mentioned in the

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

scope of work.

- 29.2 The Contractor shall collect the line pipes from the above dump yard(s) and arrange handling of pipes including crane etc. for unloading, transportation of pipes to required location or pipeline ROU shall be the responsibility of contractor.
- 29.3 Similarly other items issued as Free Issue Material (FIM) shall be collected by the Contractor from Employer/Consultant's designated storage yard(s) as directed by Engineer-in-Charge. Contractor shall arrange for handling of FIM including crane etc for loading/unloading, transportation of FIM to required site location free of cost.
- 29.4 Contractor shall lift the entire quantity envisaged for the section (inclusive of 10% extra pipe quantity) to cater to the wastage, re-routing etc., encountered during the construction; store it properly in the pipe yard maintained by the contractor.

30.0 STATUTORY APPROVALS

- 30.1 All associated activities required for obtaining necessary clearances, permissions, approvals, all licenses from all concerned authorities in respect of pipeline crossing & all pipeline related works shall be the responsibility of the Contractor and the cost of the same shall be deemed to have been included in the quoted prices.
- 30.2 The approval from any authority required as per statutory rules and regulations of river authority and any Central / State Government authority shall be the Contractor's responsibility unless otherwise specified in the Bidding Document. The application on behalf of the Owner for submission to relevant authorities alongwith copies of required certificate complete in all respects shall be prepared and submitted by the Contractor well ahead of time so that the actual construction of the work is not delayed for want of the approval/inspection by concerned authorities. The inspection of the works by the authorities shall be arranged by the Contractor and necessary coordination and liason work in this respect shall be the responsibility of the Contractor. However statutory fees paid, if any, for all inspections and approvals by such authorities shall be reimbursed at actual by the Owner to the Contractor on production of documentary evidence.
- 30.3 Any change/addition required to be made to meet the requirements of the statutory authorities shall be carried out by the Contractor free of charge. The inspection and acceptance of the work by statutory authorities shall however, not absolve the Contract from any of his responsibilities under this Contract.
- 30.4 Notice and Licences : The Contractor shall at his costs and expenses give to the Municipal or Panchayat, Police and any other private or public authorities all notices etc., that may be required in law to be given and obtain all necessary permissions and licences etc., for temporary obstructions, enclosures and pay all fees, taxes charges etc. which may be leviable by such authorities for that purpose. The Contractor shall make good any damage to the

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

adjoining property whether public or private.

31.0 TESTS AND INSPECTION

- 31.1 The Contractor shall carry out the various tests as enumerated in the technical specifications of this bid document and the technical documents that will be furnished to him during the performance of the work. the work and supply of materials by the Contractor shall be carried out by Contractor at his own cost.
- 31.2 The work is subject to inspection at all times by the Engineer-in-Charge. The contractor shall carry out all instructions given during inspection and shall ensure that the work is being carried out according to the technical specifications of this bid document, the technical documents and the relevant codes of practice will be furnished to him during the performance of the work.
- 31.3 The Contractor shall provide for purposes of inspection access ladders, lighting and necessary instruments at his own cost.
- 31.4 Any work not conforming to execution drawings, specifications or codes and approved methodology / scheme shall be rejected forthwith and the Contractor shall carryout the rectifications at his own cost.
- 31.5 All results of inspection and tests will be recorded in the inspection reports, proforma of which will be approved by the Engineer-in-Charge. These reports shall form part of the completion documents.
- 31.6 For materials supplied by Employer/Consultant, Contractor shall carryout the tests, if required by the Engineer-in-Charge, and the Employer/Consultant shall reimburse the cost of such tests at actual to the Contractor on production of documentary evidence.
- 31.7 Statutory fees paid to IBR authorities and for repeat tests and inspection due to failures, repairs etc. such reasons attributable to the Contractor shall be borne by the Contractor.
- 31.8 Inspection and acceptance of work shall not relieve the Contractor from any of his responsibilities under this Contract

32.0 INSPECTION OF SUPPLY ITEMS

- 32.1 All inspection and tests on bought out items shall be made as per the specifications forming part of this contract. Various stages of inspection and testing shall be identified after receipt of Quality Assurance Programme from the Contractor/ Manufacturer.
- 32.2 Inspection calls shall be given for associations of Employer/Consultant's representative as per mutually agreed programme in prescribed proforma with 15 days margin, giving details of equipment and attaching relevant test certificates and internal inspection report of the Contractor. All drawings, General Arrangement and other contract drawings, specifications, catalogues etc. pertaining to equipment offered for inspection shall be got approved from Employer/Consultant and copies shall be made available to Employer/Consultant before hand for undertaking inspection.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

32.3 The contractor shall ensure full and free access to the inspection Engineer of Employer/Consultant at the Contractor's or their sub-contractor's premises at any time during contract period to facilitate him to carry out inspection and testing assignments.

32.4 The contractor/ sub-contractor shall provide all instruments, tools, necessary testing cost for carrying out inspection.

32.5 Where facilities for testing do not exist in the Contractor's/ sub-contractor's laboratories, samples and test pieces shall be drawn by the Contractor/ Sub-Contractor in presence of Inspection Engineer of a Employer/Consultant and duly sealed by the later and sent for testing in Government approved Test House or any other testing laboratories approved by the Inspection Engineer at the Contractor's cost.

33.0 FINAL INSPECTION

33.1 After completion of all tests as per specification the whole work will be subject to a final inspection to ensure that job has been completed as per requirement. If any defects noticed in the work attributable to Contractor, the Contractor at his own cost shall attend these, as and when the Employer/Consultant brings them to his notice. The Employer/Consultant shall have the right to have these defects rectified at the risk and cost of the contractor if he fails to attend to these defects immediately

34.0 COMPENSATION FOR EXTENDED STAY

NOT APPLICABLE

35.0 COMPUTERIZED CONTRACTORS BILLING SYSTEM

35.1 Without prejudice to stipulation in General Conditions of Contract, Contractor should follow following billing system.

35.2 The bills will be prepared by the contractors on their own PCs as per the standard formats and codification scheme proposed by BGL / BGL/PMC. The contractors will be provided with data entry software to capture the relevant billing data for subsequent processing. Contractors will submit these data to BGL / BGL/PMC in an electronic media along with the hard copy of the bill, necessary enclosures and documents. The contractor will also ensure the correctness and consistency of data so entered with the hard copy of the bill submitted for payment.

35.3 Employer/Consultant will utilize these data for processing and verification of the Contractor's bill and payment."

36.0 TEMPORARY WORKS

36.1 All Temporary and ancillary works including enabling works connected with the work shall be responsibility of the Contractor and the price quoted by them shall be deemed to have included the cost of such works which shall be removed by the contractor at his cost, immediately after completion of his work.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

37.0 DISTINCTION BETWEEN FOUNDATION AND SUPERSTRUCTURE

37.1 To distinguish between work in foundations and superstructures, the following criteria shall apply:

37.1.1 For all Equipment pedestals, pipe racks, other foundation and R.C.C. Structures, work done upto 300 mm level above finished grade level will be taken as work in foundations and work above this level will be treated as work in superstructures and payments would be made accordingly.

37.1.2 For Buildings only, all works upto level corresponding to finished floor level shall be treated as 'Work in foundation' and all works above the finished floor level shall be treated as "Work in superstructure".

37.1.3 Irrespective of what has been stated above, all pavements, R.C.C. Retaining wall, all pipe sleepers and any similar item would be taken as work done in foundations irrespective of locations, nomenclature and levels given anywhere.

37.1.4 Where not specifically pointed out all works in Cellars/ sumps, Tank Pads, Cable trenches, or such similar item would be taken as work in foundation.

38.0 QUALITY ASSURANCE/ QUALITY CONTROL

38.1 Bidder shall include in his offer the Quality Assurance Programme containing the overall quality management and procedures, which is required to be adhered to during the execution of contract. After the award of the contract detailed quality assurance programme shall be prepared by the contractor for the execution of contract for various works, which will be mutually discussed and agreed to.

38.2 The Contractor shall establish document and maintain an effective quality assurance system outlined in recognised codes.

38.3 Quality Assurance System plans/procedures of the Contractor shall be furnished in the form of a QA manual. This document should cover details of the personnel responsible for the Quality Assurance, plans or procedures to be followed for quality control in respect of Engineering, Procurement, Supply, Installation, Testing and Commissioning.

The quality assurance system should indicate organizational approach for quality control and quality assurance of the construction activities, at all stages of work at site as well as at manufacture's works and dispatch of materials.

38.4 The Employer/Consultant/Consultant or their representative shall reserve the right to inspect/witness, review any or all stages of work at shop/site as deemed necessary for quality assurance.

38.5 The contractor has to ensure the deployment of Quality Assurance and Quality Control Engineer(s) depending upon the quantum of work. This QA/QC group shall be fully responsible to carryout the work as per standards and all code requirements. In case Engineer-in-Charge

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

feels that Contractor's QA/QC Engineer(s) are incompetent or insufficient, contractor has to deploy other experienced Engineer(s) as per site requirement and to the full satisfaction of Engineer-In-Charge.

38.6 In case contractor fails to follow the instructions of Engineer-in-charge with respect to above clauses, next payment due to him shall not be released unless until he complies with the instructions to the full satisfaction of Engineer-in-charge.

38.7 The Contractor shall adhere to the quality assurance system as per BGL/PMC Specification enclosed in the Bidding Document as Annexure-6.

39.0 HEALTH SAFETY AND ENVIRONMENT (HSE) MANAGEMENT

39.1 The Contractor, during entire duration of the Contract, shall adhere to HSE requirement as per spec. enclosed in the bidding document as Annexure-7.

40.0 SITE CLEANING

40.1 The Contractor shall clean and keep clean the work site from time to time to the satisfaction of the Engineer-in-Charge for easy access to work site and to ensure safe passage, movement and working.

40.2 If the work involves dismantling of any existing structure in whole or part, care shall be taken to limit the dismantling up to the exact point and/or lines as directed by the Engineer-in-Charge and any damage caused to the existing structure beyond the said line or point shall be repaired and restored to the original condition at the Contractor's cost and risks to the satisfaction of the Engineer-in-Charge, whose decision shall be final and binding upon the Contractor.

40.3 The Contractor shall be the custodian of the dismantled materials till the Engineer in-Charge takes charge thereof.

40.4 The Contractor shall dispose off the unserviceable materials, debris etc. to any area as decided by the Engineer-in-Charge.

40.5 The Contractor shall sort out, clear and stack the serviceable materials obtained from the dismantling/renewal at places as directed by the Engineer-in-Charge.

40.6 No extra payment shall be paid on this account.

41.0 COMPLETION DOCUMENTS

41.1 As Built" Drawings

Notwithstanding the provisions contained in standard specifications, upon completion of WORK, the CONTRACTOR shall complete all of the related drawings to the "AS BUILT" stage and provide the OWNER, the following:-

a) Three complete bound sets of Contractor's specifications including design calculations and GIS data

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

b) Three complete sets, in the form of hand bound volumes, of the manufacturer's data book for all the equipments, instruments etc. including certified prints and data. Data books shall be completed with index as to tag numbers associated with manufacturer's data shown, Equipment data shall include as a minimum requirement the principle and descriptions of operations, installation and maintenance instructions, drawings and dimensions, parts list and priced purchase orders including those of major sub-vendors and suppliers. Requirements pertaining to "VENDOR DATA REQUIREMENT" attached with standard specifications for the documents to be included in the Data Book for each equipment, instruments etc. shall also be complied with.

c) Three bound copies each of the Spare Parts Data Books and the Lubricants Inventory Schedule.

d) Soft copy of all the as built drawings prepared in AutoCAD in two sets of re-writable compact Disc and photographs covering measure activities at site.

e) The Contractor shall submit coloured photographs covering all the activities of pipeline constructions highlighting the progress or other areas of work in 2 sets to Engineer-in-charge at site office alongwith monthly progress report. Similarly photographs for problem areas should be submitted well in advance with a proposed methodology to execute the works and meet the construction schedule. The cost of same shall be deemed to be inclusive in the rates and no separate payment shall be made.

f) All as-built drawings as mentioned in specification for documentation enclosed elsewhere in the tender.

41.2 Completion Document

The following documents shall be submitted in hard binder by the CONTRACTOR in THREE sets, as a part of completion documents: -

a) Welding Procedure Qualification Report.

b) Welder Qualification Report.

c) Radiographic Procedure Qualification.

d) Radiographic Report along with radiographs (Radiographs only with the original).

e) Batch Test Certificate from manufacturers for electrodes.

f) Pretesting and final Hydrostatic and other Test results and reports.

g) All other requirements as specified in the respective specifications.

h) Test results and reports.

i) Pre-commissioning/commissioning checklist.

j) Completion Certificate issued by Owner's Site Engineer.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- k) No claim certificate by the Contractor.
- l) Consumption statements of steel and cement certified by Owner's Site Engineer.
- m) Completion certificate for embedded and covered up works wherever applicable.
- n) Recovery statement, if any.
- o) Statement for reconciliation of all the payments and recoveries made in the progress bills.
- p) Copies of deviation statement and order of extension of time, if granted.

42.0 COORDINATION WITH OTHER AGENCIES

42.1 Work shall be carried out in such a manner that the work of other agencies operating at the site is not hampered due to any action of the Contractor. Proper coordination with other agencies will be Contractor's responsibility. In case of any dispute, the decision of Engineer-in-Charge shall be final and binding on the Contractor.

43.0 SETTLEMENT OF DISPUTE BETWEEN TWO PSU'S

43.1 GCC Clause No. 107.2 is modified as below:

43.2 In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitrator under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary / Additional Secretary, when so authorized by the Law Secretary, whose decision shall bind the Parties finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator

44.0 DISPUTE RESOLUTION (ADDENDUM TO PROVISION REGARDING APPLICABLE LAWS AND SETTLEMENT OF DISPUTES OF GCC)

44.1 Bhagyanagar Gas Limited (BGL) has framed the Conciliation Rules 2010 in conformity with supplementary to Part – III of the Indian Arbitration and Conciliation Act 1996 for speedier, cost effective and amicable settlement of disputes through conciliation. Unless otherwise specified, the matters where decision of the Engineer-in-Charge is deemed to be final and binding as provided in the Agreement and the issues/disputes which cannot be mutually resolved within a reasonable time, all disputes shall be settled in accordance with the Conciliation Rules 2010.

44.2 Any dispute(s)/difference(s)/issue(s) of any kind whatsoever between/amongst the Parties arising under/out of/in connection with this contract shall be settled in accordance with the

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

aforesaid rules.

- 44.3 In case of any dispute(s)/difference(s)/issue(s), a Party shall notify the other Party(ies) in writing about such a dispute(s) / difference(s) / issue(s) between / amongst the Parties and that such a Party wishes to refer the dispute(s)/ difference(s)/ issue(s) to Conciliation. Such Invitation for Conciliation shall contain sufficient information as to the dispute(s)/ difference(s)/ issue(s) to enable the other Party(ies) to be fully informed as to the nature of the dispute(s)/ difference(s)/ issue(s), the amount of monetary claim, if any, and apparent cause(s) of action.
- 44.4 Conciliation proceedings commence when the other Party(ies) accept(s) the invitation to conciliate and confirmed in writing. If the other Party (ies) reject(s) the invitation, there will be no conciliation proceedings.
- 44.5 If the Party initiating conciliation does not receive a reply within thirty days from the date on which he/she sends the invitation, or within such other period of time as specified in the invitation, he/she may elect to treat this as a rejection of the invitation to conciliate. If he/she so elects, he/she shall inform the other Party(ies) accordingly.
- 44.6 Where Invitation for Conciliation has been furnished, the Parties shall attempt to settle such dispute(s) amicably under Part-III of the Indian Arbitration and Conciliation Act, 1996 and Bhagyanagar Gas Limited (BGL) Conciliation Rules, 2010. It would be only after exhausting the option of Conciliation as an Alternate Dispute Resolution Mechanism that the Parties hereto shall go for Arbitration. For the purpose of this clause, the option of 'Conciliation' shall be deemed to have been exhausted, even in case of rejection of 'Conciliation' by any of the Parties.
- 44.7 The cost of Conciliation proceedings including but not limited to fees for Conciliator(s), Airfare, Local Transport, Accommodation, cost towards conference facility etc. shall be borne by the Parties equally.
- 44.8 The Parties shall freeze claim(s) of interest, if any, and shall not claim the same during the pendency of Conciliation proceedings. The Settlement Agreement, as and when reached/agreed upon, shall be signed between the Parties and Conciliation proceedings shall stand terminated on the date of the Settlement Agreement.

45.0 UNDERGROUND AND OVERHEAD STRUCTURES

- 45.1 The information to possible extent regarding existing structures/overhead lines, existing pipelines and utilities are already indicated on alignment sheets. Over and above contractor may encounter other structure/pipelines/ OFC etc. which may not be appearing on alignment sheet, the contractor is required to collect such information on his own before commencing the work. Contractor must intimate the Local Officer concerned of the utility about the pipeline construction activities and take necessary steps to ensure safety and protection to men, materials and utility provided. The Contractor shall execute the work in such a manner that the said structures, utilities, pipelines etc. are not disturbed or damaged, and shall indemnify and

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

keep indemnified the Employer/Consultant from and against any destruction thereof or damages thereto.

46.0 TEST CERTIFICATES

46.1 Bidder shall be required to submit recent test certificates for the material being used in works from the recognized laboratories. These certificates should indicate all properties of the materials as required in relevant IS Standards or International Standards.

46.2 Contractor shall also submit the test certificate with every batch of material supplied which will be approved by Engineer-in-Charge. No secured advance will be given for the materials not having test certificate. In case any test is to be carried out, the same shall be got done in the approved laboratory at the cost of contractor.

47.0 ROYALTY

47.1 Contractor's quoted rate should include the royalty on different applicable items as per the prevailing Government rates. In case, Employer/Consultant is able to obtain the exemption of Royalty from the State Government, the contractor shall pass on the same to Employer/Consultant for all the items involving Royalty.

48.0 EXCAVATION BY BLASTING

48.1 Excavation by blasting is prohibited. Trenching in all types of rocks using mechanical means such as rock breakers / excavators etc.

49.0 SITE FACILITIES FOR WORKMEN

49.1 Following facilities are to be ensured at all work places where workmen are deployed/engaged by Contractor.

i) Arrangement of first aid

ii) Arrangement for clean drinking water.

iii) Toilets

iv) Canteen where tea & snacks are available

v) A creche where 10 or more women workmen are having children below the age of 6 years.

50.0 EXECUTION OF ELECTRICAL WORKS

The Contractor shall engage an approved electrical agency for execution of electrical works, holding valid electrical contractor licence. In case contractor himself executes electrical works then he shall arrange valid electrical contractor licence before start of electrical works at site. Notwithstanding, contractor shall adhere to all the safety standard as included in bidding document.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

51.0 HYDROSTATIC TESTING

51.1 The bidder as per the Technical specification along with their offer taking into account the completion schedule shall furnish the detailed procedure proposed for the hydrostatic testing of pipeline. The necessary piping, pumps etc. shall be provided by the contractor. The final disposal of water after testing shall be contractor's responsibility and should be in such a way that neither the traffic movement even pedestrians nor the standing crop in nearby fields gets affected. Suitable drains shall be provided for this purpose as directed by the Engineer-in-Charge within the contracted prices.

51.2 The Contractor shall propose and obtain approval of Engineer-in-Charge for exact number of test sections, based on drawings, availability of water for hydro testing and keeping in view other exigencies, if any before starting hydro testing work. The Contractor will carryout the hydrostatic test for approved number of test section including preparation for test and tie-ins, without any time and cost implication on this account to Employer/Consultant. Any increase or decrease in number of test sections will not have any cost implication to Owner / Consultant / Contractor.

52.0 MAKE OF MATERIALS

52.1 The materials required to be supplied by the contractor under this contract shall be procured only from Employer/Consultant approved vendors or preferred makes indicated in the tender. Where the makes of materials are not indicated in the Bidding document contractor shall furnish the details of makes and shall obtain prior approval of Engineer-in-Charge of vendors/sub-vendors before placing order.

53.0 ADDITIONAL WORKS/ EXTRA WORKS

53.1 Employer/Consultant reserves their right to execute any additional works/ extra works, during the execution of work, either by themselves or by appointing any other agency, even though such works are incidental to and necessary for the completion of works awarded to the Contractor. In the event of such decisions taken by Employer/Consultant Contractor is required to extend necessary cooperation, and act as per the instructions of Engineer-in-Charge.

54.0 COMPENSATION FOR DELAY (L.D) / PRICE REDUCTION SCHEDULE FOR ANY DELAY

54.1 Clause No: 27.0 of GCC, pertaining to Compensation for Delay (Liquidated Damages) stands modified to the following extent:

54.1.1 The contractual completion period is as given in the Invitation for Bids and subdivided into two parts:

A) Mechanical Completion including Mobilization Period and Completion of TCP Works



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

B) Commissioning & Gas-In and TCP Commissioning

54.1.2 In case of delay in works related to clause 54.1.1 for the following sections :

In case of delay in works in any of the parts against any of the activities stated hereinabove at Clause No. 54.1.1 A), & B), L.D / PRS shall be applicable @ ½% of the contract value of respective section(s).

The maximum L.D / PRS shall be limited to 5% of contract value. The contract value for L.D / PRS purpose shall be excluding GST.

54.1.3 The total liability of the Contractor to Employer/ Consultant under sub clause no.54.1.1 & 54.1.2 on Compensation for Delay/Price Reduction Schedule (PRS) shall not exceed the limit as stated above at 54.1.2 i). The compensation on account of any liability (ies) other than above shall be as per provisions of Bidding Documents. from the date of intimation to the contractor other-wise recovery shall be made at the rate of Rs. 3000/- per day of delay. This will be applicable in addition to PRS.

55.0 PROJECT PLANNING, SCHEDULING AND MONITORING SYSTEM

The following schedules/documents/reports shall be prepared and submitted by the Bidder/Contractor for review/approval at various stages of the contract.

i) Along with Bid

a) Time Schedule

The Completion Time Schedule for the work (including mobilization period) as per Appendix-I to Invitation for bid, PARTA of Tender in all respect, from the date of issue of telex/telegram/letter/Fax of Intent. The Bidder is required to submit a Project Time Schedule in Bar Chart Form, alongwith the Bid. The Schedule shall cover all aspects like sub-ordering, manufacturing and delivery, indicated in the Bid Document. The Owner interface activities shall be clearly identified with their latest required dates. Owner reserves the right to disqualify the Bidder if the above Schedule submitted by the Bidder is not in line with the over all Project requirement.

b) Scheduling & Monitoring System

The Bidders should describe their system of Project Scheduling and monitoring, the extent of computerization, level of detailing, tracing methodology etc. with the name of computer package and sample outputs.

55.1 After the Award of Contract

a) Time Schedule

The Completion Time Schedule for the work (including mobilization period) as per Annexure-3 to SCC of Tender in all respect, from the date of issue of Fax of Acceptance.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

The Bidder is required to submit a Project Time Schedule in Primavera. The Schedule shall cover all aspects like sub-ordering, manufacturing and delivery, indicated in the Bid Document. The Owner interface activities shall be clearly identified with their latest required dates. Owner reserves the right to disqualify the Bidder if the above Schedule submitted by the Bidder is not in line with the over all Project requirement.

b) Scheduling & Monitoring System

the extent of computerization, level of detailing, tracing methodology etc. with the name of computer package and sample outputs.

c) Overall Project Schedule

The Contractor shall submit within 1 week of Fax of Acceptance, a sufficiently detailed over all Project Schedule in the activity network form, clearly indicating the major milestones, interrelationship/ interdependence between various activities together with analysis of critical path and floats.

The network will be reviewed and approved by Engineer- in-Charge and the comments if any shall be incorporated in the network before issuing the same for implementation. The network thus finalised shall form part of the contract document and the same shall not be revised without the prior permission from Engineer-in- Charge during the entire period of contract.

d) Progress Measurement Methodology

The contractor is required to submit within 1 week of award of work, the methodology of progress measurement of sub-ordering, manufacturing/ delivery, sub- contracting construction and commissioning works and the basis of computation of overall services/physical progress informed. Owner reserves the right to modify the methodology in part or in full.

e) Functional Schedules

The contractor should prepare detailed functional schedules in line with network for functional monitoring and control and submit scheduled progress covers for each function viz. ordering, delivery and construction.

55.2 Project Review Meetings

The Contractor shall present the programme and status at various review meetings as required.

a) Weekly Review Meeting

Level of Participation : Contractor's/Consultant's RCM/ Site Incharge & Job Engineers.

Agenda : a) Weekly programme v/s actual achieved in the past week & programme for next week.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

b) Remedial Actions and hold up analysis.

c) Client query/ approval.

Venue : Site Office

b) Monthly Review Meeting

Level of Participation : Senior Officers of BGL and Contractors.

Agenda :

- a) Progress Status/ Statistics
- b) Completion Outlook
- c) Major hold ups/slippages
- d) Assistance required
- e) Critical issues
- f) Client query/ approval

Venue : BGL Office/ Site at the discretion of BGL

55.3 Project Review Meetings

A) Monthly Progress Report

This report shall be submitted on a monthly basis within 10 (ten) calendar days from cut-off date, as agreed upon covering overall scenarios of the work. The report shall include, but not limited to the following :

- a) Brief Introduction of the work.
 - b) Activities executed/ achievements during the month.
 - c) Schedule versus actual percentage progress and progress curves for Detail Engg. Sub-ordering, Manufacturing/ Delivery, Subcontracting, Construction, Commissioning and Overall and quantum wise status & purchase orders against schedule.
 - d) Area of concern/ problem/ hold-ups, impacts and action plans.
 - e) Resources deployment status.
 - f) Annexures giving status summary for drawings, MRs, deliveries, sub- contracting and construction.
 - g) Procurement status for items to be supplied by Contractor.
- B) Weekly Reports

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

The report will be prepared and submitted by the Contractor on weekly basis and will cover following items :

- a) Activities programmed and completed during the week.
- b) Resource deployed men and machines.
- c) Quantities achieved against target in construction
- d) Record of Mandays lost.
- e) Construction percentage progress schedule and actual.
- C) Daily Repots
 - a) Activity programme for the day
 - b) Progress of the previous day and commutative progress.
 - c) Manpower & machinery deployed.
- D) Any other additional reports/ information as may be required by E.I.C.

55.4 Progress Reports

55.4.1 CONTRACTOR shall make every effort to keep the OWNER adequately informed as to the progress of the WORK throughout the CONTRACT period.

CONTRACTOR shall keep the OWNER informed well in advance of the construction schedule so as to permit the OWNER to arrange for requisite inspection to be carried out in such a manner as to minimize interference with progress of WORK. It is imperative that close coordination be maintained with the OWNER during all phases of WORK.

55.4.2 By the 10th (tenth) of each month, CONTRACTOR shall furnish the OWNER a detailed report covering the progress as of the last day of the previous month. These reports will indicate actual and scheduled percentage of completion of construction as well as general comments of interest or the progress of various phases of the WORK. The frequency of progress reporting by the CONTRACTOR shall be weekly.

55.4.3 Once a week, CONTRACTOR shall submit a summary of the WORK accomplished during the preceding week in form of percentage completion of the various phases of the WORK, to the OWNER.

55.4.4 Progress reports shall be supplied by CONTRACTOR with documents such as chart, networks, photographs, test certificate etc. Such progress reports shall be in the form and size as may be required by the OWNER and shall be submitted in at least 3 (three) copies.

55.4.5 Contractor shall prepare daily progress report (DPR) in the desired format and submit it to Engineer-in-charge along with schedule of next day to Engineer-in-charge.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

56.0 RESPONSIBILITY OF CONTRACTOR

- 56.1 It shall be the responsibility of the Contractor to obtain the approval for any revision and/or modifications decided by the Contractor from the Employer/Consultant/Engineer-in-charge before implementation. Also such revisions and/or modifications if accepted/ approved by the Employer/Consultant/Engineer-in-charge shall be carried out at no extra cost to the Employer/Consultant. Any changes required during and/or after approval for detailed construction drawings due to functional requirements or for efficient running of system keeping the basic parameters unchanged and which has not been indicated by the Contractor in the data/drawings furnished along with the offer will be carried out by the Contractor at no extra cost to the Employer/Consultant.
- 56.2 All expenses towards mobilisation at site and demobilisation including bringing in equipment, clearing the site etc. shall be deemed to be included in the prices quoted and no separate payments on account of such expenses shall be entertained.
- 56.3 It shall be entirely the Contractor's responsibility to provide, operate and maintain all necessary construction equipments, scaffoldings and safety gadgets, cranes and other lifting tackles, tools and appliances to perform the work in a workman like and efficient manner and complete all the jobs as per time schedules.
- 56.4 Preparing approaches and working areas for the movement and operation of the cranes, levelling the areas for assembly and erection shall also be the responsibility of the Contractor. The Contractor shall acquaint himself with access availability, facilities such as railway siding, local labour etc. to provide suitable allowances in his quotation. The Contractor may have to build temporary access roads to aid his own work, which shall also be taken care while quoting for the work.
- 56.5 The procurement and supply in sequence and at the appropriate time of all materials and consumables shall be entirely the Contractor's responsibility and his rates for execution of work will be inclusive of supply of all these items.

57.0 CHECKING OF LEVELS

- 57.1 The Contractor shall be responsible for checking levels, orientation plan of all foundations, foundation bolts, etc., well in advance of taking up the actual erection work and bring to the notice of Engineer-in-Charge discrepancies, if any. In case of minor variations in levels etc. the Contractor shall carry out the necessary rectifications to the foundations within his quoted price.
- 57.2 The Contractor shall also be responsible for checking with templates, wherever necessary, the disposition of foundation bolts with the corresponding bases of structure and shall effect rectifications, as directed, within his quoted rate.

58.0 STORAGE FACILITIES



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

58.1 The Contractor shall maintain wherever required an air-conditioned room for the storage of the instruments as well as for calibration and testing of the instruments at his own cost. The contractor shall provide these facilities with in the quoted price.

59.0 INSURANCE FOR FREE ISSUE MATERIAL

59.1 Contractor shall at his own expense arrange, secure and maintain insurance cover for Employer/Consultant's supplied free issue materials as defined in Bidding Document. Contractor's quoted price shall be inclusive of all costs on account of insurance liabilities covered under the Contract. Contractor to note that the beneficiary of insurance cover shall be BGL. The insurance cover of the free issue material shall be for the period from the date of handing over the material to Contractor from Employer/Consultant's designated place of issue/ dumpsite to date of handing over the completed work to Employer/Consultant.

59.2 The schedule of insurance cover for free issue materials given above shall be as follows:

Upto 2 Months	-	25% of value
Beyond 2 Months	-	100% of value

The value of free issue material supplied by BGL the will be intimated to the successful bidder after placement of order.

60.0 INSURANCES IN INDIA

60.1 In addition to the insurance covers specified in the General Conditions of Contract to be obtained and maintained by the Contractor, Contractor shall at his own expense arrange, secure and maintain insurance with reputable insurance companies to the satisfaction of the Employer/Consultant as may be necessary and to its full value for all such amounts to protect the works in progress from time to time and the interest of Employer/Consultant against all risks as detailed herein. The form and the limit of such insurance as defined herein together with the under writer works thereof in each case should be as acceptable to the Employer/Consultant. However, irrespective of work acceptance, the responsibility to maintain adequate insurance coverage at all times during the period of Contract shall be that of Contractor alone. Contractor's failure in this regard shall not relieve him of any of his responsibilities and obligations under Contractor.

60.2 Any loss or damage to the equipment during ocean transportation, port/custom clearance, inland and port handling, inland transportation, storage, erection and commissioning till such time the Work is taken over by Employer/Consultant, shall be to the account of Contractor. Contractor shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/or replacement of the parts of the Work damaged or lost. Contractor shall provide the Employer/Consultant



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

with a copy of all insurance policies and documents taken out by him in pursuance of the Contract. Such copies of documents shall be submitted to the Employer/Consultant immediately upon the Contractor having taken such insurance coverage. Contractor shall also inform the Employer/Consultant at least 60 (Sixty) days in advance regarding the expiry cancellation and/or changes in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time.

60.3 Statutory clearances, if any, in respect of foreign supply required for the purpose of replacement of equipment lost in transit and/or during erection, shall be made available by the Employer/Consultant. Contractor shall, however, be responsible for obtaining requisite licenses, port clearances and other formalities relating to such import. The risks that are to be covered under the insurance shall include, but not be limited to the loss or damage in handling, transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, war risk (during ocean transportation only) etc. The scope of such insurance shall cover the entire value of supplies of equipments, plants and materials to be imported from time to time.

60.4 All costs on account of insurance liabilities covered under this Contract will be to Contractor's account and will be included in Contract Price. However, the Employer/Consultant may from time to time, during the currency of the Contract, ask the Contractor in writing to limit the insurance coverage risk and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in Value Of Contract to the extent of reduced premium amounts.

60.5 Contractor as far as possible shall cover insurance with Indian Insurance Companies, including marine Insurance during ocean transportation.

61.0 SUBMISSION OF COLOURED PHOTOGRAPHS

61.1 The Contractor shall shoot, prepare and submission coloured photographs in 2 sets alongwith softcopies to BGL/PMC site office along with monthly progress report covering all the activities of pipeline constructions highlighting the progress or other areas of work. Similarly photographs for problem areas should be submitted well in advance with a proposed methodology to execute the works and meet the construction schedule. The cost of same shall be deemed to be inclusive in the rates and no separate payment shall be made.

62.0 SPARES

GCC clause 54.0 is modified as below:

62.1 Contractor shall procure and supply all spare parts required during commissioning of the various items / materials supplied by him as enumerated in the Bidding Document. The quoted lumpsum prices shall be deemed to have been inclusive of all such



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

provision of commissioning spares, required till commissioning of such items. Contractor shall make available all the commissioning spares required at site at least 4 (four) weeks before start of commissioning. However, listed spares not used during commissioning shall be handed over to Employer at their designated place. Contractor shall also supply commissioning spares not listed but required during commissioning within the contracted price.

62.2 In addition to above, special tools & tackles required, if any, for operation & maintenance shall also be supplied by the Contractor and the quoted prices shall be deemed to have been inclusive of all such provisions.

63.0 BUILDING AND OTHER CONSTRUCTION WORKER'S ACT

63.1 In order to govern welfare and working conditions of labourers engaged in construction activities, the Building and other Construction Workers' (Regulation of Employment and Conditions of Service "RE &CS") Act, 1996 came into force. RE&CS Act'1996 is applicable in respect of building and other construction work. Wherever applicable, The SUB-CONTRACTOR shall strictly comply with the following provisions pertaining to RE &CS Act'1996.

- a. The SUB-CONTRACTOR must be registered with the concerned authorities under the Building and Other Construction Workers' (RE&CS) Act, 1996 or in case of non-registration; the SUB-CONTRACTOR should obtain registration within one month of the award of contract.
- b. The SUB-CONTRACTOR shall be responsible to comply with all provisions of the Building and Other Construction Workers' (RE&CS) Act, 1996, the Building and Other Construction Workers' Welfare Cess Act, 1996, the Building and other Construction Workers' (RE&CS) Rules, 1998 and the Building and Other Construction Workers Welfare Cess Rules, 1998.
- c. Cess as per the prevailing rate, shall be deducted at source from bills of the SUBCONTRACTOR by the engineer-in-Charge of the contract and remitted to the "Secretary, Building and Other Construction Workers Welfare Board" of the concerned State. The SUB-CONTRACTOR shall be responsible to submit final assessment return of the cess amount to the assessing officer after adjusting the cess deducted at source.

64.0 SINGLE POINT RESPONSIBILITY

64.1 The entire work as per scope of work covered under this contract shall be awarded on single point responsibility basis.

65.0 BONUS FOR EARLY COMPLETION

65.1 The Clause 27.3 of GCC for Bonus for early completion shall not be applicable in this Contract.



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

66.0 AHR ITEMS

66.1 In item rate contract where the quoted rates for the items exceed 50% of the estimate rates, such items will be considered as Abnormally High Rates (AHR) items and payment of AHR items beyond the SOR stipulated quantities shall be made at the lowest amongst the following rates:

Rates as per SOR, quoted by the Contractor/Bidder.

Rate of the item, which shall be derived as follows:

- a. Based on rates of Machine and labour as available from the contract (which includes contractor's supervision, profit, overheads and other expenses).
- b. In case rates are not available in the contract, rates will be calculated based on prevailing market rates of machine, material and labour plus 15% to cover contractor's supervision profit, overhead & other expenses.

67.0 CONTRACT PERFORMANCE SECURITY / CONTRACT PERFORMANCE BANK GUARANTEE

GCC clause no. 24.0 is modified as below:

67.1 Contract performance Security / Security Deposit (CPS earlier known as CPBG) shall be submitted within 30 days of the receipt of the notification of award/ FOA / LOA from BGL, the successful Bidder shall furnish the CPS equivalent to 10% of the contract / total order value (exclusive of all taxes, duties). The CPS shall be in the form of either Banker's Cheque or Demand Draft or Bank Guarantee or Letter of Credit and shall be in the denominated in the currency of the Contract for the amount as applicable. However, CPS shall not be applicable in cases wherein the individual order/contract value as specified in Notification of Award is less than INR 5 Lakh (exclusive of GST).

67.2 The CPS shall be for an amount equal to specified in bid document towards faithful performance of the contractual obligations and performance of equipment. For the purpose of CPS, Contract/order value shall be exclusive of GST (CGST & SGST/UTGST or IGST) to be reimbursed by the Owner.

Bank Guarantee towards CPS shall be from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank in case of Indian bidder as well as foreign bidder. However, in case of bank guarantees from banks other than the Nationalized Indian banks, the bank must be a commercial bank having net worth in excess of Rs 100 crores and a declaration to this effect should be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead. This bank guarantee shall be valid for a period as three months beyond the DLP specified in bid document. CPS will also have



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

30 days claim period beyond expiry date.

- 67.3 Failure of the successful bidder to comply with the requirements of this article shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD.
- 67.4 The CPS has to cover the entire contract value including extra works/services also. As long as the CPS submitted at the time of award take cares the extra works/ services executed and total executed value are within the awarded contract price, there is no need for additional CPS. As soon as the total executed value is likely to burst the ceiling of awarded contract price, the contractor should furnish additional CPS.
- 67.5 Further, the bidder can submit CPBG online through issuing bank to BGL directly as per Ministry of Finance (MOF) Department of financial service direction vide letter ref number F.No.7/112/2011-BOA dated 17th July 2012. In such cases confirmation will not be sought from issuing banker by BGL.

"In addition to existing specified form (i.e.Demand Draft (DD)/ Banker's Cheque/ Bank Guarantee/ Letter of Credit) mentioned in tender documents for submission of Security Deposit/ Contract Performance Guarantee, the successful bidder can also submit the Security Deposit/ Contract Performance Guarantee through online banking transaction i.e. IMPS/NEFT/RTGS etc.

For this purpose, the details of Bhagyanagar Gas Limited Bank Account is as under

Account Holder's Name: M/S Bhagyanagar Gas Ltd

Account Number: 000805017218

IFSC Code: ICIC0000008

Other details: Khairatabad, Hyderabad

While remitting, the bidder must indicate "Security Deposit/ Contract Performance Guarantee against FOA/LOA/PO no. _____ (Contractor/ vendor to specify the FOA/LOA/PO no.)" under remarks column of respective bank portal. The contractor/ vendor shall be required to submit the successful transaction details to the concerned C&P officer(s) immediately and necessarily within 30 days from the date of FOA/LOA.

"CPBG/Security Deposit will not be accepted in case the same has reference of 'remitter' / 'financer' other than bidder on the aforementioned financial instrument of CPBG/Security Deposit submitted by the Supplier/ contractor/ Service Provider.

68.0 DOCUMENTS TO BE SUBMITTED/ PRODUCED ALONGWITH R.A. BILLS

- i) Computerized R.A. Bill/ Manual Bill, with IT No./ ST No./ Labour License No. Printed thereon.
- ii) ESI/ EPF clearance certificates for the last month along with R.A. Bills.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- iii) Insurance Policy as per relevant clauses of Contract Agreement.
- iv) Attendance Register and Salary Records.
- v) Photocopy of the measurement book to be attached with R.A. Bills.
- vi) Any other document required for the purpose of processing the bills.
- vii) Registration Certificate with Sales tax authorities of state concerned.

NOTE TO BIDDERS:

1. Laying of steel pipeline, with or without casing, in case of existing RCC/BW trench etc is provided with top RCC cover, then scope included removal of prevailing RCC cover from channel, laying of pipeline, testing and sand filling (including supply) refixing the top cover of pipe trench.
2. Moiling: Survey of underground utilities, execution of the work as per specification, including excavation of adequate size pits at both the sides, manual or machine moiling with the hole size not exceeding 20% of the pipe dia, insertion of steel pipe, testing & commissioning and restoration of the pits to original condition, submission of As-Built Graph as per specifications and the instruction of Engineer-in-charge. It should be ensured that no asphalt or concrete road surface damaged during moiling
3. Liasioning with state authorities / local offices / society association/ traffic police / public representatives etc. is the one of the important activity for smooth laying of the pipeline. Preferably a local person having experience for co-ordination to be deployed separately.
4. All PCC/RCC items of the SOR are having volumetric mix. Hence, No design mix is required but testing of the materials such as sand, aggregate and reinforcement etc shall be required as per CPWD specification and testing norms.
5. Since Hyderabad is traffic congested city, it shall be required to carry out the trenching, laying and other related works in night time also. There shall not be any additional payment paid separately for working at night. All arrangements such as caution light / diversion sign boards, PPE to work at night for carrying out the work should be arranged by the contractor
6. It may be required to commission the network partially as per requirement. Contractor should able to commission with requisite equipment, tools, tackles & manpower without any additional implication.
7. There are some conditions stipulated by the Government agencies for laying the pipeline at GHMC / HMDA / HMWSSB jurisdiction. The General conditions stipulated

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

by GHMC / HMDA / HMWSSB / NHAI / IR is as below: However the conditions may vary while issuing permissions:

General conditions for Permission for laying of Gas Pipelines by Open Trench Method is accorded subject to adhering to the following conditions by GHMC / HMDA / HMWSSB / NHAI / IR /other state authorities:-

1. The concerned ward engineer shall supervise the work and ensure that the conditions imposed are complied with.
2. Before commencement of the work, the Agency must give prior written intimation to the Jurisdictional /Zonal and Road Infrastructure Engineers of GHMC / HMDA and also keep the GHMC / HMDA Engineers informed during erection of work.
3. As far as newly asphalted roads, are concerned, work should be carried out strictly by intimating and in co-ordination with Major Road/Road Infrastructure division.
4. At start, during and after the execution of work, the Agency must inform office of the Chief Engineer OFC-Ce11.
5. HDD Pits must be restored on the same day itself. Any delay is liable for penalty.
6. Excavation must be as per the instructions of the concerned GHMC Zonal /Road Infrastructure Engineers.
7. Any over burden debris/earth should be removed immediately and conveyed to the designated dumping yards failing which, a penalty will be levied by the concerned ward engineer.
8. Strictly follow the procedure laid down in road opening and restoration protocol.
9. Barricading sign boards and other precautionary signage, name and telephone numbers of the executing Agency, opening and closing dates should be displayed, also warning lights should be displayed for the road users and for easy flow of traffic during execution of work, failing which it would attract heavy penalty and cancellation of permission, etc and also entail blacklisting of the executor
10. During execution of work, care must be taken not to cause any damages to GHMC property like drains, Name boards, etc. In case of such damage, commensurate penalty to be paid.
11. Absolutely no deviations from the permitted route is allowed. If deviation is found, not only penalty would be levied, the cable on the deviation portion would be confiscated /destroyed.
12. After completion of the work, as per specification given by GHMC, the Agency must get a Satisfactory Work done Certificate from the jurisdictional GHMC Engineers along with 3rd Party Inspection Reports.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

13. During execution, any damage caused to the limb or life of public, damage caused to any Government / ESCOM / BSNL / HMWSSB / TSPTCL / Bhagyanagar Gas Limited etc, property, the responsibility lies solely with the executing Agency and any claims/compensation should be borne by the executing Agency alone.
 14. Redoing of Road cut portion to be carried out as per the MORTH Specification, procedure for Redoing of Road cut portion, specification details enclosed.
 15. If the restoration of pits is not done as per MORTH Specification, the cost of Same will be recovered by forfeiting the Security Deposit.
 16. During Rainy season, extra care should be taken to ensure that the pits are properly barricaded keeping in mind the safety of pedestrian and vehicular traffic.
 17. At the site of construction of HMDA flyover & underpass prior approval of the undersigned is essential before the start of the work
 18. The proposed gas pipe line should be laid with top of both steel and PE pipes at 1 m depth from the top of undisturbed soil. However if required by authorities specifically for any additional cover due to site requirement the same needs to be done.
 19. Damage to utilities & restoration: Any utilities damaged during execution to be restored with out loss of time. In case if not done by the contractor, the same shall be restored through the other agencies at the contractor's risk & cost.
 20. MONITORING / EXECUTION METHODOLOGY:
 - The contractor has to submit the schedule with bar chart for the area allotted to the contractor for execution. Weekly schedule / plan is also to be submitted in accordance with the plan.
 - If the progress is not as per the schedule / plan, he has to submit the catch up plan to achieve the target with additional deployment of manpower / machinery.
 - In case of failure to achieve the catch up plan & schedule, BGL / BGL/PMC shall allot the work to the other party who is working in the same part after issuing the notice.
 21. All the supply items of bidders scope includes manufacturing, factory testing, inspection, packaging, forwarding, transportation, insurance, receipt and storage at site.
- 69.0 POST ORDER CORRESPONDENCE
- All post-order correspondence shall be addressed to:
- A.) General Manager (Project)
Bhagyanagar Gas Limited,
2nd Floor, Parishram Bhavan, TSIDC Building,
Basheer Bagh, Hyderabad



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

B.) Manager (C&P)

Bhagyanagar Gas Limited,
2nd Floor, Parishram Bhavan, TSIDC Building,
Basheer Bagh, Hyderabad

70.0 CORRESPONDING ADDRESS

70.1 PURCHASER:

Bhagyanagar Gas Limited
2nd Floor, TSIDC Building
Parishram Bhavan,
Basheer Bagh, Hyderabad-500 004
Contact Person: Mr. Pradeep Kumar Yadav
Telephone: +91 7531075337
Email: pradeep.yadav@bglgas.com

70.2 CONSULTANTS:

VCS Quality Services Pvt. Ltd.
Unit no. 1116 - 1121, Tower 4, 11th Floor,
Assotech Business Cresterra, Plot No. 22, Sector-135, Expressway Noida-201301,
U.P. Telephone: +91 8595073057/ 8076548002/ 8010489356/ 9034159430
Email: amit.kumar@vcsprojects.com; hk.sharma@vcsprojects.com;
rachna.shukla@vcsprojects.com; rajesh.sharma@vcsprojects.com;
sachin.singh@vcsprojects.com;

ANNEXURES TO SCC

C O N T E N T S

- Annexure-1 : Scope of Work**
Annexure-2 : Scope of Supply
Annexure-3 : Time Schedule
Annexure-4 : Measurement of Work
Annexure-5 : Terms of Payment
Annexure-6 : Specification for Quality Assurance System requirements from

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Bidders

- Annexure-7 :** Specification for Health, Safety and Environment (HSE) Management
- Annexure-8 :** Conditions for issue & reconciliation of material
- Annexure-9A :** List of Minimum Equipment's required to be owned by the bidder.
- Annexure-9 :** List of minimum nos. of construction equipment to be deployed.
- Annexure-10 :** Minimum no. of skilled labour to be deployed
- Annexure-11 :** Hiring / Recovery Rate for Deployment of Manpower
- Annexure-12 :** Equipment Hiring / Recovery Rate

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

**SCOPE OF WORK
(ANNEXURE-1 TO SPECIAL CONDITIONS OF CONTRACT)**

ANNEXURE-1 TO SCC

1.0 SCOPE OF WORK

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- 1.1 The brief scope of work covered in this bidding document broadly consist of Laying, Testing and Commissioning of 6"NB dia. x 0.841 Km approx. long pipeline to connect Sai Priya filling station at Shahpur, Hyderabad.
- 1.2 The brief scope of work includes supply of bulk materials (other than free issue), pipe laying work including but not limited to Construction Management, HSE & Quality Management, Survey, clearing of ROU, grading. Stringing, bending, welding, trenching, lowering, crossings. Tie-ins, NDT and destructive testing, backfilling, site restoration, hydrotesting, dewatering, drying, pre-commissioning, commissioning and Gas-in of pipeline of size 6"Dia. including construction / installation of related facilities at consumer ends & metering skids, SV Stations, tap-off station at various locations including associated Mechanical, Civil, Structural, Cathodic Protection at stations etc.
- 1.3 **Total Scope of work has been divided into Two (02) parts as mentioned below:**

GA	Part (s)	6" (Dia.)	Total (in Km)
Hyderabad	Part – B	0.841	0.841

- 1.4 The Lengths & Locations mentioned above are tentative and subject to change.
- 1.5 For detailed Scope of work and specifications, refer Technical volume.



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

**SCOPE OF SUPPLY
(ANNEXURE-2 TO SPECIAL CONDITIONS OF CONTRACT)**

ANNEXURE-2 TO SCC

1.0 SCOPE OF SUPPLY

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

1.1 Owner's Scope of Supply

Owner's scope of supply shall be as specified in Particular Job Specification, Technical Specifications, Schedule of Rates & various other parts of the Bidding Document.

Free Issue Materials shall be issued to the Contractor from the designated store(s) of Owner. Contractor shall be responsible for lifting the free issue materials from Owner's storage point(s) and transporting the same to work site(s) at his own cost within Hyderabad GA limits but maximum 60 km to Contractor's stock yard/work shop/work site.

Conditions for Issue and Reconciliation of Materials shall be as per Document enclosed as Annexure-8 to Special Conditions of Contract.

1.2 Contractor's Scope of Supply

All materials except what is under Owner's scope of supply as mentioned in Clause No. 1.1 above, and required for successful completion of works in all respects shall be supplied by the Contractor and the cost of such supply shall be deemed to have been included in the quoted price without any additional liability on the part of Owner.



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

TIME SCHEDULE

(ANNEXURE-3 TO SPECIAL CONDITIONS OF CONTRACT)

ANNEXURE-3 TO SCC

TIME SCHEDULE

Name of Work	Time of Completion
Laying of Underground Steel to connect the M/s. Saipriya Filling Station, Shapur.	The period of Contract shall be 06 months from the date of issue of FOA / LOA / WO (Fax of Acceptance / Letter of Acceptance / Work Order)

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

MEASUREMENT OF WORK

(ANNEXURE- 4 TO SPECIAL CONDITIONS OF CONTRACT)

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

ANNEXURE-4 TO SCC

MEASUREMENT OF WORK

1.0 GENERAL

- 1.1 The mode of measurement shall be as mentioned in relevant standard specification incorporated in the Bidding Document. Any other mode of measurements not covered in above specifications shall be followed in accordance with relevant BIS codes/ Schedule of Rates/ Specifications etc. and/ or as decided by Engineer-in-charge.
- 1.2 Payment will be made on the basis of joint measurements taken by Contractor and certified by Engineer-in-charge. Measurement shall be based on "Approved for Construction" drawings, to be the extent that the work conforms to the drawings and details are adequate.
- 1.3 Wherever work is executed based on instructions of Engineer-in-charge or details are not adequate in the drawings, physical measurements shall be taken by Contractor in the presence of Engineer-in-charge.
- 1.4 Measurements of weights shall be in metric tonnes corrected to the nearest Kilogram. Linear measurements shall be in meters corrected to the nearest centimeters.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- 1.5 The weights mentioned in the drawing or shipping list shall be the basis for payment. If mountings for panels etc. are packed separately, their erection weights shall include all mountings.
- 1.6 Welds, bolts, nuts, washers etc. shall not be measured. Rates for structural steel work shall be deemed to include the same.
- 1.7 No other payment either for temporary works connected with this Contractor for any other item such as weld, shims, packing plates etc. shall be made. Such items shall be deemed to have been included for in the rates quoted.
- 1.8 Measurement will be made for various items under schedule of rates on the following basis as indicated in the unit column.

- i) Weight : MT or Kg
- ii) Length : M (Metre)
- iii) Number : No.
- iv) Volume : Cu.M
- v) Area : Sq.M

1.9 All measurements shall be in metric system. All the works in progress will be jointly measured by the representative of the Engineer-in-charge and the contractor's authorized agent progressively. Such measurements will be either recorded/typed by the contractor in the numbered measurement sheets to be supplied by Engineer-in-Charge / Owner or computerized by Contractor themselves. The measurements shall be signed in token of acceptance by the contractor or his authorized representative. The contractor shall submit the bill in the approved Performa in quadruplicate to the Engineer-in-Charge of the work. Issued materials from owner's / BGL/PMC storage points to contractor's store/workshop within 50 km in GA of Hyderabad and the same are deemed to be included in the unit rates for the respective item of work.

1.11 In-case the Valve chamber sizes for the items 16.0 & 18.0 in the SOR varies due to site constraints, the payment for exceeded quantity shall be paid under respective civil works.

2.0 PIPING

2.1 For pipe sizes 2" and above, Length of pipes shall be measured along the curvilinear centre of the pipelines laid/ installed and shall exclude all types of specials, fittings, flanges, valves and

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

instruments like pressure gauges, RPD meters with EVC. Length of all types of specials, fittings, flanges, valves, and instruments like pressure gauges, RPD meters with EVC, shall be excluded from piping measurement and shall be considered on number basis at the rates given separately in the Schedule of Rates. Any dismantling and re-erection of the valves required for the purpose of testing, calibration etc. will be carried out by the contractor within his quoted rates.

2.2 For pipe sizes below 2", Length of pipes shall be measured along the curvilinear centre of the pipelines laid/ installed and shall include all types of specials, fittings, flanges, and valves etc i.e All Socket weld fittings & hot/cold bends, reducers etc. for size 1½" and below shall be fabricated and erected as per requirements by the contractor at no additional cost and his rates for piping of size 1½" and below shall be inclusive of this work.

2.3 Vents and drains shall be measured from O.D. of pipe lines and shall be paid for at the corresponding unit rates for similar sizes of pipe. Other piping attachment such as couplings, earthing lugs etc. shall be supplied & erected by the contractor within his quoted rates for piping.

2.4 Fabrication of spool pieces for temporary use to aid Contractor's work such as fabrication, erection, flushing and testing of piping etc. shall be done by Contractor as part of piping work and no separate payment shall be made for this.

2.5 In case of branch piping, the measurement shall be made from outer surface of the main line except in case of equal size branches, in which case measurement shall be made from centre line of the branching header.

2.6 DRS and MRS along with associated accessories shall be paid in nos.

2.7 Fabrication of Supports

- Fabrication of all types of pipe supports, provided as per drawings & instructions of the Engineer-in-Charge, will be paid on weight basis. Bolts, nuts and washers including U-bolt will be supplied by contractor. Weight of bolts, nuts and clamps etc. shall not be added to the weight of pipe support for payment purpose.
- Erection of all types of supports, spring supports and turn buckles, including grouting of supports, if required, shall be carried out by the Contractor as part of piping work and no separate payment will be made for it.
- While fabricating the supporting elements, the contractor will ensure that the dimensions shown in the drawings match with site conditions. No payment shall be made for rectification arising out of discrepancies in dimensions of the fabricated items of supporting elements due to site conditions.
- Additional supports as necessary with the site condition shall be fabricated and erected in accordance with the standard engineering practices and instructions of Engineer-in-charge.

3.0 RADIOGRAPHY/DYE-PENETRANT EXAMINATIONS/MAGNETIC PARTICLE TEST (MPT)

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Radiography charges towards Pipeline works is included in laying cost and no separate payment shall be paid for mainline and other Mechanical & piping works. Repeat radiography due to defective films or on repaired joint due to Contractor's fault or for additional radiography necessitated due to poor performance of Contractor's welder will be done at Contractor's cost

4.0 STRUCTURAL STEEL WORK

- 4.1 Payment for steel work shall be made on basis of admissible weight of the structure accepted, the weight being determined as described below.
- 4.2 The weight for payment will be assessed from the approved fabrication drawings and the respective bill of materials prepared by the contractor and approved by the Engineer-in-Charge. The weight of structural material/ Plate shall be calculated wherever necessary on the basis of IS Hand Book. If sections are different from IS sections, then Manufacturer Hand Book shall be referred to.
- 4.3 Sections built out of plates/structural shall be paid on the actual weight incorporated except for gussets which will be paid on the weight of the smallest rectangle enclosing the shape.
- 4.4 Gratings shall be paid on the basis of calculated weights as determined from the dimensions given on the design drawings/ bill of materials. Full deduction shall be made for all opening above 300 mm size and skews.
- 4.5 Welds, bolts, nuts, washers etc. shall not be measured. Rate of structural steel work shall be deemed to include the same.
- 4.6 No other payment either for temporary works or for any other item such as welds, shims, packing plates etc., shall be made. Such items shall be deemed to have been included in the rate quoted for steel work.

5.0 ELECTRICAL WORKS

Earthing

Payment is on lump sum basis for each set as per SOR.

6.0 INSTRUMENTATION WORKS

- 6.1 Pressure Gauges ,RPD meters shall be accounted in terms of the quantity in numbers.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

TERMS OF PAYMENT

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

(ANNEXURE-5 TO SPECIAL CONDITIONS OF CONTRACT)

ANNEXURE- 5 TO SCC

1.0 TERMS OF PAYMENT

Pending completion of the whole works, provisional progressive payments for the part of work executed by the contractor shall be made by Owner on the basis of said work completed and certified by the Engineer-in-Charge as per the agreed milestone payment schedule and the percentage break-ups given below.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Contractor shall submit his invoices to the Engineer-in-Charge fortnightly in the manner as instructed by Owner. Each invoice will be supported by documentation acceptable to Owner and certified by the Engineer-in-Charge. Payments made by owner to the contractor for any part of the work shall not deem that the Owner has accepted the work.

Document Required – Invoice shall be processed only after submission of statutory documents like Workmen Compensation (WC) policy, Insurance policies (Open transit policy), labour license, BOCW registration, Contractor All Risk (CAR) policy, GST registrations, etc. Further all Running bills shall be processed only after submission of RPFC/ESI challans of previous month and BOCW Challan.

1.	<u>MAINLINE WORKS</u>		
A	Pipeline Laying with Associated Works by open cut (SOR item no.1.1 & 1.2)		
	After grading, stringing, trenching, welding, NDT, joint coating, lowering, and Backfilling (as per respective item rate of SOR)	:	65%
	Tie-in, NDT & field coating of tie-in joints (as per respective item rate of SOR) and backfilling of respective area.	:	10%
	Hydro-testing, dewatering & Swabbing incl. testing of PE pipe	:	10%
	Final cleanup and restoration (as per respective rate)	:	5%
	Submission of As built drgs. and documents line pipe book etc. and reconciliation of materials Final completion, handing over of complete pipeline system and acceptance of the system by Owner along with the final bill	:	10%
B	Cutting/ Breaking of Hard Rock & Borrowed soil for filling (SOR item No 1.5 & 3.0)		
	On completion of work & certification by EIC	:	90%
	After completion of works and along with final bill	:	10%
C	Restoration (SOR Item no.2.0)		
	On completion of work & certification by EIC	:	75%
	After obtaining NOC from concerned authorities	:	15%
	After completion of works and along with final bill :	:	10%
D	Pipeline Laying by HDD/ boring / Moling (SOR item nos. 1.6, 1.8, 4.0, 5.0)		

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

	On completion of HDD/Boring/moling	:	80%
	Final tie-in and testing	:	10%
	Submission of all as-built drawings material reconciliation and 5% closure of contract	:	10%
E	Supply of Long radius bends (SOR Item no.13.0)		
	On supply with TC	:	60%
	On lowering / erection at site	:	20%
	Testing & Commissioning	:	10%
	After completion of works and along with final bill	:	10%
F	Repair of pipes / leak /burst , idle time preservation of pipe line, (SOR Item no. 7.0, 8.0, 10.0, 12.0)		
	On completion and acceptance by EIC	:	90%
	Along with final bill	:	10%
G	Permanent markers (SOR Item no.9.0)		
	On supply & installation	:	90%
	After completion of works and along with final bill	:	10%
H	Pre-commissioning & assistance in commissioning (SOR item nos. 11.0)		
	On completion pre-commissioning	:	80%
	On commissioning	:	10%
	On final closure of contract	:	10%
I	Valves erection (SOR Item no.14.0)		
	On installation	:	80%
	On testing & documentation	:	10%
	After completion of works and along with final bill :	:	10%
J	Supply & Installation of Fittings, Flanges, PE isolation valves (SOR item No. 15, 17)		
	On supply with TC	:	60%
	On lowering / erection at site	:	20%
	Testing & Commissioning	:	10%
	After completion of works and along with final bill	:	10%
K	Liaisoning activities (SOR no. 6)		

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

	On obtaining demand note from authorities	:	70%
	Progressively, laying min 3 KM pipeline in single stretch.	:	20%
	After completion of works and along with final bill	:	10%
L	Construction of Valve pits (SOR item No 16, 18)		
	On completion of work & certification by EIC	:	90%
	After completion of works and along with final bill	:	10%
M	Supply of Hard Barricading (SOR item No 19)		
	On supply & installation	:	90%
	After completion of works and along with final bill	:	10%
N	Hot Tapping Works (SOR Item no. 20)		
	On supply with TC of Tees and Valves	:	20%
	On hot tapping / erection at site	:	60%
	Testing & Commissioning	:	10%
	After completion of works and along with final bill	:	10%
2.0	<u>CATHODIC PROTECTION WORKS (TCP)</u>		
2.1	Design of TCP works (SOR Item no.1) On Design Approval	:	90%
	After handing over & final documentation	:	10%
2.2	Supply & installation of TCP works (SOR Item no.2)		
	On supply	:	55%
	On installation & testing	:	35%
	After handing over & final documentation	:	10%
3.0	Piping & Mechanical works (PP)		
3.1	Erection of pipes and valves supplied as free issue items (SOR no.1.0 & 3.0)		
	Fabrication & erection	:	60%
	Testing & supports	:	30%
	On commissioning & final billing	:	10%
3.2	Supply & installation of pipes & fittings (SOR no.2.0)		
	Supply of pipes & valves	:	70%
	Installation	:	20%
	On commissioning & final billing	:	10%

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

3.3	Erection of free issue valves & installation of free issue MRS/ DRS (SOR no. 4 & 5)		
	On completion of erection of valves & MRS/DRS	:	90%
	On commissioning & final billing	:	10%
4	Civil works (SOR Sl. no. CIV-1 to 13)		
	On completion and acceptance by EIC	:	90%
	On submission of all the documents (All test certificates, cement consumption statement etc.) with final bill	:	10%
5	Structural works (SOR No. ST-1 to 3)		
	Supply of steel structures	:	70%
	Completion of Fabrication, welding & erection work	:	20%
	On commissioning & final billing	:	10%
6	Electrical works (EL)		
	Supply of electrical items	:	70%
	Completion of installation work including testing	:	20%
	On commissioning & final billing	:	10%
7	Instrumentation works (IN)		
	Supply, if instrumentation items	:	70%
	Completion of installation work including testing	:	20%
	Along with final bill with complete testing & commissioning if required.	:	10%

PAYMENT METHODOLOGY

1. The contractor may raise invoices on monthly basis. Bidder shall enclose all documents as per check list issued by BGL/PMC/BGL.
2. The payments to the Contractor will be released within a period of 15 days from the date of receipt of the complete invoice as per the terms and conditions of the Contract
3. Payments may be made through electronic modes via NEFT/RTGS & Cheques etc.
4. Further break-up of Lumpsum Prices, if deemed necessary for any progressive payment of individual item may be permitted after request by Contractor showing relevance of further breakup & recommendation by EIC

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

5. All payments against running bills are advance against the work and shall not be taken as final acceptance of work / measurement carried out till the final bill

SPECIFICATION FOR QUALITY ASSURANCE SYSTEM REQUIREMENTS

(ANNEXURE - 6 TO SPECIAL CONDITIONS OF CONTRACT)

(For Details – Refer our Attachment-01, VCS – SS – PP – 2044)



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

**STANDARD SPECIFICATION
FOR HEALTH, SAFETY AND ENVIRONMENTAL (HSE) MANAGEMENT AT CONSTRUCTION
SITES**

(ANNEXURE – 7 TO SPECIAL CONDITIONS OF CONTRACT)

(For Details – Refer our Attachment-01, VCS – SS – PP – 2021)

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

**CONDITIONS FOR ISSUE AND RECONCILIATION OF MATERIAL
(ANNEXURE – 8 TO SPECIAL CONDITIONS OF CONTRACT)**

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

ANNEXURE-8 TO SCC

1.0 CONDITIONS FOR ISSUE OF MATERIALS

Whenever any material is issued by Owner, following conditions for issue of material in addition to other conditions specified in the contract shall be applicable:

- 1.1 Necessary indents will have to be raised by the Contractor as per procedure laid down by the Engineer-in-Charge from time to time, when he requires the above material for incorporation in permanent works.
- 1.2 Materials will be issued only for permanent works and not for temporary works, enabling works etc. unless specifically approved by the Engineer-in-Charge and the same shall not be taken into account for the purpose of materials reconciliation.
- 1.3 The Contractor shall bear all other cost including lifting, carting from issue points to work site / Contractor's store, custody and handling etc. and return of surplus/serviceable scrap materials to Owner's storage / dumpyard points to be designated by the Engineer-in-Charge etc. No separate payment for such expenditure will be made.
- 1.4 No material shall be allowed to be taken outside the plant without a gate pass.
- 1.5 The Contractor shall be responsible for proper storage of free issue material including line pipe, preservation and watch & ward of the materials.

1.6 RETURN OF UNUSED MATERIAL

- 1.6.1 All unused/scrap materials shall be the property of the Owner and shall be returned in good and acceptable condition size wise, category wise by the Contractor at his own cost to Owner's Store(s).
- 1.6.2 No credit will be given to the Contractor for return of scrap. The Contractor should quote the rates accordingly.
- 1.6.3 In case the Contractor fails to return unused/scrap materials, then recovery for such quantity of materials, not returned by the Contractor shall be affected at following penal rates from the Contractor's bills or from any other dues of the Contractor to the Owner. Contractor shall make his own arrangements for weighing the off cuts to be returned to Owner's stores.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

1.6.4 Penal Rates for non return of materials:

Sl. No.	Material	Penal Rates
1.	(a) Penal rate for non return of accountable scrap. (b) Penal rate for return of serviceable materials in excess permitted % allowances. (c) Penal rate for issuance of unplanned OFC jointing kits.	Issue Rate + 25% or Landed Rate + 25% (in case issue rate are not indicated in the contract)
2.	Penal rates for non return of Unused material/excess scrap	Twice the Issue Rates or Twice the Landed Rates (in case Issue Rates are not indicated in the Contract)

NOTE : 1) Landed Rate shall be arrived from the latest Purchase Order of respective material received at site by Owner/PMC.

2) In case different penal rates have been indicated in the Contract (based on Project requirement), the same will supersede the above rates.

2.0 PIPING MATERIALS

2.1 All pipes shall be issued in available lengths/shapes and no claims for extra payments on account of issue of non-standard length & shape will be entertained. Pipes shall be issued on linear measurement basis. All valves, flanges, fittings etc. shall be issued on number(s) basis. Contractor shall store the materials in such a way so as to avoid mixing of different types of material and shall maintain complete identification and traceability at all times.

2.2 The scrap allowance for pipes issued by the Owner shall be 3% (2½% accountable + ½% non accountable) of the actual consumption as incorporated in the works.

2.3 All pipes in length of 2 meters and above shall be considered as serviceable material provided the material is in good and acceptable condition and has clear identification and traceability (Manufacturer's name, heat number/batch number and test certificates). Pipes in lengths less than 2M shall be treated as scrap.

2.4 For the non account of pipes drawn by the Contractor over and above the actual consumption as determined by the Engineer-in-Charge, plus 3% (2½% accountable + ½% non accountable) thereof to cover the scrap allowance, recovery at penal rate shall be effected from the Contractor's bill(s) or from any other dues of the Contractor to the Owner.

2.5 All unused/scrap pipes, valves, flanges, forged fitting like elbows, reducers tees shall be returned by the Contractor category wise duly cleaned, greased and spec. marked at his own cost to Owner's stores. In case the Contractor fails to do so then recovery for such quantity of

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

pipes not returned by the Contractor at the penal rates shall be effected from the Contractor's bill(s) or from any other dues of the Contractor to the Owner.

3.0 EQUIPMENT

Various equipment/materials intended for the installation will be received by Owner in unpacked, skid mounted, crated, packed or loose condition and will be stored in the warehouses and open yards. In general, materials will be issued to the Contractor in 'as received' condition. It will be the Contractor's responsibility to draw, load and transport all materials from Owner's designated places of issue to the point of installation and return all packing materials like steel frames, wooden boxes/scrap etc. to Owner's stores. All materials supplied by the Owner shall be duly protected by the Contractor at his own cost with appropriate preservative like primer, lacquer coating, grease etc. as required.

4.0 CABLES - DELETED

4.1 Appropriation of cables shall be done as follows:

4.1.1 All the surplus and serviceable cables out of the cables quantity(ies) issued by the Owner to the Contractor shall be returned by the Contractor to the Owner's store in good condition and as directed by the Engineer-in-Charge.

4.1.2 The Contractor shall be allowed a cutting/wastage allowance of 1.5% for power cables and 3% for the control cables. This cutting/wastage allowance shall be computed on the length of cables actually laid, measured and accepted.

4.1.3 All cables being returned to store should carry Aluminium sheet tags indicating the size & type of cable. Cables of less than 15 meters length will be termed as scrap. Cables of lengths 15M and above shall be termed as serviceable material & shall be returned size wise and category wise to the Owner's store in wooden drums. Cables of serviceable length being returned to stores in drum(s) shall be accepted only after Megger value continuity test and physical measurement is carried out by the Contractor to the satisfaction of Engineer-in-Charge. Empty cable drums and major packing material (as decided by Engineer-in-charge) shall be Owner's property and shall be returned to Owner's Store/designated place without any additional cost.

4.1.4 While carrying out material appropriation with the Contractor, the above points will be taken into account. All serviceable materials returned by the Contractor (size wise & category wise) shall be deducted from the quantity(ies) issued to the Contractor for the respective sizes. Scrap generated for power cable and control cable shall also be returned to Owner's store on Lot basis.

4.1.5 Material appropriation shall be done & allowable scrap quantity calculated. The wastage generated by the Contractor in excess of the allowable percentage shall be charged at the penal rates.

5.0 LINE PIPES

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

5.1 All coated line pipes as per Line Pipe specifications shall be issued on linear measurement basis. The line pipes shall be issued in available lengths and shapes and no claim for extra payment on account of issue of non-standard length and shape will be entertained. Contractor shall store and maintain the line pipes in proper manner to avoid mixing of different classes of pipes. Contractor shall maintain complete identification and traceability at all times. All cut pieces when returned to Owner's storage points after bevelling, shall be considered as serviceable material provided:

5.1.1 Corrosion Protection Coating is intact.

5.1.2 Pipe pieces have pipe specifications, manufacturer's logo/name and heat number duly authenticated with hard stamp of the authorized inspector as per approved procedure. All cut pieces of pipes measuring less than 2 M will be treated as wastage/scrap.

5.2 For the purpose of accounting of coated line pipes, following allowances shall be permitted:

a) Unaccountable wastage:

I)	Upto 100 km	0.1%
II)	101 to 500 km	0.07%
III)	Beyond 500 km	0.05%

b) Scrap (All cut pieces of pipes measuring less than 2 Meter) 0.25%

c) Serviceable materials (All cut pieces of pipe measuring 2 Meter and above) 0.5%

Scrap shall be accounted at actuals as per site assessment subject to maximum limits as stated above.

The percentage allowance shall be accounted on the basis of pipe book chainage for main pipeline

5.2.1 Material appropriation shall be done & allowable scrap quantity calculated. The wastage generated by the Contractor in excess of the allowable percentage shall be charged at the penal rates as per clause no. 1.6.4 above as given in the contract.

6.0 OPTICAL FIBRE CABLE

For the purpose of accounting of optical fibre cable, all cut pieces measuring in length of 40 m and above when returned to Owner's storage points shall be treated as serviceable materials. All cut pieces of cable measuring less than 40 M will be treated as scrap. For the purpose of accounting of OFC (Optical Fibre Cable) following allowances shall be permitted:

(i) Unaccountable wastage 0.1%

(ii) Scrap (All cut pieces of cables measuring less than 40 M) 0.25%

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

(iii) Serviceable material (measuring 40M and above) 0.25%

Material appropriation shall be done & allowable scrap quantity calculated. The wastage generated by the Contractor in excess of the allowable percentage shall be charged at the penal rates as given the contract.

**List of Minimum Equipment's required to be owned by the bidder.
(Annexure- 9A of Special Conditions of Contract)**

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

ANNEXURE-9A TO SCC

LIST OF MINIMUM EQUIPMENTS REQUIRED TO BE OWNED BY THE BIDDER

Serial No	Equipment Description	Quantity (Nos.)
1	Holiday Detector with accessories	1
2	Diesel Welding Machine/ DG set with Rectifier	2

Note:

1. The bidder shall submit the certificate from statutory auditor / chartered accountant (for ownership / possession of equipments / vehicles) as per format F-15 enclosed in the Bid Document.
2. The submission of Format F-15 is mandatory.
3. "For equipment to be purchased" - Purchase order duly accepted by equipment supplier and with equipment delivery to project site, meeting the equipment deployment schedule. However, contractor to own minimum 50% of the equipment against each type of equipment; balance 50% may be covered under to be purchased "Category". If 50% is a fraction, the same needs to be rounded off to next higher number for the minimum owned category. The purchase order shall be duly signed & stamped by statutory auditors.
4. The bidder shall submit Certificate from Chartered Engineer certifying that the bidder own equipment's are under good health and working condition as per Format F-16 enclosed in the Bid Document.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

**MINIMUM NUMBER OF EQUIPMENTS TO BE DEPLOYED / MINIMUM NO. OF MAJOR
EQUIPMENTS REQUIRED TO BE OWNED**

(Annexure- 9 of Special Conditions of Contract)

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

ANNEXURE-9 TO SCC

LIST OF MINIMUM EQUIPMENT TO BE DEPLOYED BY THE BIDDER

Sl. No.	Equipment Description	Qty (In Nos.)
1.	<i>Excavator/Back-Hoe (\geq Hitachi 60 or equivalent)</i>	<i>As Required</i>
2.	<i>JCB</i>	2
3.	<i>Hydraulic Crane</i>	2
4.	<i>DG Welding Machines</i>	2
5.	<i>DG Set 62.5 KVA to 200 KVA + Stabilizer</i>	1
6.	<i>HDD Rig with All Equipments & Accessories (Min. Cap. 30 T)</i>	<i>As Required</i>
7.	<i>Horizontal Auger Boring Machine</i>	<i>As Required</i>
8.	<i>Gamma Source</i>	1
9.	<i>X-Ray M/C – Internal</i>	-
10.	<i>X-Ray M/C – External</i>	1
11.	<i>Water Lifting / Filling Pumps (Adequate capacity)</i>	1/1
12.	<i>Pressurization Pump – Motorized</i>	1
13.	<i>Air Compressor – (Min Capacity -300CFM)</i>	1
14.	<i>Complete hydro testing kit (pressure & temperature recorder, Dead WT Tester, thermocouple, Dozing Pump etc.)</i>	1
15.	<i>Dewatering Pump</i>	1
16.	<i>Holiday Detector Unit</i>	1
17.	<i>Blast Cleaning Machine</i>	1
18.	<i>X-Ray Unit (Complete)</i>	1
19.	<i>External Clamp</i>	1
20.	<i>Manual UT Machine</i>	1
21.	<i>Dead WT Tester</i>	1
22.	<i>Pipe/Cable locator</i>	1
23.	<i>Mobile Workshop</i>	1

Notes:

5. Bidder is required to mobilize the above minimum critical equipments in good working condition and suitable for piping & associated work. Bidder is required to augment the above list with additional numbers / categories of equipments as per actual requirement and instruction of Engineer-In-Charge without any additional financial implication to client.
6. Contractor to ensure **WELDING & NDT** procedure and welders are qualified within **30 DAYS**

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

time after award of contract.

7. Bidder shall replace any defective / damaged equipments promptly to complete the work without any time & cost implication to the client / owner.
8. After completion of certain activities, in case equipments are not required the same can be demobilised with prior approval of Engineer-In-Charge.
9. Capacity of HDD Rig indicated above is tentative only. Actual capacity of HDD Rig to be deployed shall be as per design calculation. Contractor shall not be compensated for any increase in Rig capacity, if required, for successful execution of HDD crossing.

**MINIMUM NO. OF SKILLED MANPOWER TO BE DEPLOYED
(ANNEXURE-10 OF SPECIAL CONDITION OF CONTRACT)**

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

ANNEXURE-10 TO SCC

MINIMUM NUMBER OF SKILLED MANPOWER TO BE DEPLOYED

Sl. No	Description	Requirement (in Nos.)
1.	<i>Resident Construction Manager</i>	1
2.	<i>Planning engineer</i>	1
3.	<i>QA/QC Engineer</i>	1
4.	<i>Safety officer</i>	1
5.	<i>Qualified Surveyor</i>	1
6.	<i>Welding/ NDT Engineer</i>	1
7.	<i>Discipline Engineer's (Civil/ Mech)</i>	1/1
8.	<i>Foreman / Supervisor</i>	2
9.	<i>Civil survey crew</i>	1
10.	<i>Document Controller</i>	1
11.	<i>Store Keeper/ Store in-charge</i>	1
12.	<i>Welder</i>	4
13.	<i>Fitter</i>	<i>As required</i>
14.	<i>Grinder</i>	<i>As required</i>
15.	<i>Machine operator</i>	<i>As required</i>
16.	<i>Blast cleaning crew</i>	<i>As required</i>
17.	<i>Electrician / Machine mechanic</i>	<i>As required</i>
18.	<i>Rigger</i>	<i>As required</i>
19. \	<i>Drivers</i>	<i>As required</i>
21.	<i>X-ray crew</i>	1
22.	<i>Field joint coating crew</i>	1
23.	<i>HDD crew (Driller and supporting staff)</i>	<i>As required</i>
24.	<i>Hydro-testing crew</i>	1
25.	<i>Holiday Testing Crew</i>	1
26.	<i>Unskilled worker</i>	<i>As required</i>

The above proposed list of skilled manpower is the minimum to be deployed by Contractor.

NOTES:-

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- (1) HDD equipment and Crew as required shall be deployed based on the SOW finalized and as per instructions of EIC.
- (2) The details of minimum manpower required to be mobilized by the execution contractor to complete the work within schedule is given above and it is not exhaustive. Contractor is required to augment the above list with additional numbers/categories of workmen as required and directed by Engineer-In charge to complete the work within the completion time schedule and quoted price.
- (3) The Manpower as identified above, should have required qualification and adequate relevant experience.
- (4) *CV of proposed Resident Construction Manager, QA/QC Engineer, Planning Engineer & Safety Officer to be submitted along with the bid.* The experience should be related to execution of Cross Country Hydrocarbon Transportation Pipeline laying.
- (5) These manpower are to be mobilized **within 30 days** of award of work.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

ANNEXURE –11 TO SCC

HIRING / RECOVERY RATE FOR DEPLOYMENT OF MANPOWER

1. The labour rates are “all inclusive”. These rates include but are not limited to all payroll costs and allowances, payroll taxes, fringe benefits, protective and/or special clothing, construction supplies required for work of a nature included in this contract, overhead, profit insurance, transportation and travel time.
2. The rates are inclusive of providing hand tools and consumables such as electrodes, filler wire, gases, grinding wheels where the concerned category of labour is expected to use in execution of the job but exclusive of all major equipment and machineries.
3. The normal time labour rates shall apply for all hours worked upto eight (8) hours in a day and overtime rates shall apply for all hours worked in excess of eight (8) hours in one working day, Sunday and Public Holidays. The payment for part of the day shall be made on prorata basis.

Sl. No.	Classification Personnel	Rates per day of Normal Hours (in Rs.)	Rate per hour for OT, Sunday & Holiday (in Rs.)
1.	Foreman	2475	545
2.	Supervisor	2475	545
3.	Engineer	3300	650
4.	Gas Cutter	1155	215
5.	Grinder	1155	215
6.	Brick Mason	660	150
7.	Stone Mason	660	150
8.	Structural welder	1650	330
9.	Qualified Arc welder – manual / semi automatic	1980	330
10.	Qualified Arc welder – automatic	2000	430
11.	Welder helper	380	150
12.	Pipe Fitter /Bender	825	190
13.	Structural Fitter	660	150
14.	Pipeline Fitter	990	240
15.	Coater	660	152
16.	Mechanic	660	152
17.	Site Equipment / Machine Operator	660	152
18.	Electrician	825	190
19.	Fabricator	825	190

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Sl. No.	Classification Personnel	Rates per day of Normal Hours	Rate per hour for OT, Sunday & Holiday
		(in Rs.)	(in Rs.)
20.	Carpenter	760	165
21.	Plumber	660	150
22.	Painter	660	150
23.	Cable Jointer	990	240
24.	Instrumentation Technician	990	240
25.	Insulator	570	140
26.	Rigger	570	140
27.	Bhisti (water man)	315	75
28.	Heavy duty driver	910	215
29.	Civil Surveyor	750	130
30.	Document Controller	1000	300
31.	Account Officer	1500	360
32.	Store Keeper / Incharge	1000	300
33.	AUT Interpreter	5000	750
34.	Liasioning Team (2 persons)	2000	430
35.	Light duty driver	660	150
36.	Sand Blaster	735	165
37.	Qualified Surveyor	750	130
38.	Unskilled Worker	380	80
39.	Construction Manager	10000	1000
40.	QA/QC / Safety / Planning / NDT Engineer / Spread-in charge/ Billing Coordinator	5000	750

(SIGNATURE OF BIDDER)

NOTES:-

1. Rates are final and Tenderer is to sign only without deviation.
2. In case of foreign bidder, conversion rate applicable on one day prior to price bid opening date published by the State Bank of India will be considered.
3. The recovery rates shall be as following:

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

- a) For Sl. No. 1-38; the rates provided above plus 20% (twenty percent)
- b) For Sl. No. 39 & 40; the rates provided above plus 50% (fifty percent)

**EQUIPMENT HIRING/RECOVERY RATES
(ANNEXURE-12 OF SPECIAL CONDITION OF CONTRACT)**

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

ANNEXURE-12 TO SCC

EQUIPMENT HIRING/RECOVERY RATES

SL NO	DESCRIPTION OF EQUIPMENT	HIRING/ RECOVERY RATE (NOTE-2) (IN INR) RATE / DAY
1	Pipe Layer / Side Boom – 70 T & Above Capacity	Rs. 9500.00
2	Pipe Layer / Side Boom - 60 T and above (but below 70 T)	Rs. 8500.00
3	Pipe Layer / Side Boom - 40 T and above (but below 60 T)	Rs.8000.00
4	Excavator / Back Hoe-Series Ex 280/300 or Equivalent or above Capacity	Rs. 7500.00
5	Excavator / Back Hoe- Series Ex 200/260 or Equivalent	Rs. 7000.00
6	Rock Breaker attachment	Rs. 5600.00
7	Mono Drill Crawler Mounted/ Hand Drill (Pneumatic) for rock blasting	Rs. 3000.00
8	Pipe Bending Machine- For all sizes	Rs. 7000.00
9	Dozer With Ripper - D8 Or Equivalent	Rs. 7500.00
10	Dozer - D7 / D6 Or Equivalent	Rs. 4500.00
11	Horizontal Auger Boring Machine-For all sizes	Rs. 3500.00
12	Auto Welding Unit-with operators & technicians	Rs. 75000.00
13	Pipe facing (Beveling) machine (appropriate size) for Automatic Welding	Rs. 3000.00s
14	Bevel Cutting Machine (Manual)	Rs. 600.00
15	Grinding	Rs. 200.00
16	Gas cutting set with cylinders	Rs. 350.00
17	AUT Machine with 2 operators	Rs. 15000.00
18	Semi Auto Welding Machines	Rs. 2000.00
19	DG Welding Machines(SMAW)	Rs. 1140.00
20	D.G. Sets : 62.5 KVA to 200 KVA (inclusive of generators)	Rs. 3000.00
21	Induction/Resistance Heating Equipment	Rs. 3000.00
22	Pipe Clamp (Pneumatic/Hydraulic)- Internal	Rs. 1000.00
23	Pipe Clamp – External	Rs. 500.00
24	X-Ray M/C – Internal Crawler	Rs. 2500.00
25	X-Ray M/C – External	Rs. 1800.00
26	Gamma	Rs. 760.00
27	Manual UT Machine with 2 operators	Rs. 500.00
28	Tyre Mounted Cranes (20 - 40 MT)	Rs. 4500.00
29	Hydra (8 –	Rs. 3500.00

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

SL NO	DESCRIPTION OF EQUIPMENT	HIRING/ RECOVERY RATE (NOTE-2) (IN INR) RATE / DAY
30	HDD Rig with All Equipments & Accessories (Capacity 150 T and above)	Rs. 50000.00
31	Blast Cleaning Machine set	Rs. 250.00
32	Air Compressor – (300CFM)	Rs. 2000.00
33	Air Compressor - (450/600/800 CFM)	Rs. 2500.00
34	Air Compressor - (1100 CFM)	Rs. 2800.00
35	Water Lifting Pumps (400 m3/hr and above)	Rs. 850.00
36	Filling Pumps (400 m3/hr to 1000 m3/hr)	Rs. 900.00
37	Mud Mat (for working in Monsoon season)	Rs 12500.00 (per piece of min. size 4 m x
38	Tyre Mounted Cranes (75 MT & above)	Rs. 7500
39	Pressurization Pump – Motorized	Rs. 3000
40	Pipe Trailers (FB / Semi Low Bed)	Rs. 3500
41	Hand drill(pneumatic)for rock blasting	Rs. 2000
42	Dozing Pump	Rs. 250
43	Dewatering Pump	Rs. 800
44	Holiday Detector Unit	Rs. 400
45	Dead WT Tester	Rs. 200
46	Dumper / Tippers	Rs. 1500
47	Pipe locator	Rs. 500
48	Cable Cranes	Rs.8000
49	Pipe Trailer for Coated Line Pipe	Rs. 3000
50	Rock Breaking Machine with Excavator	Rs. 5600/-
51	Trucks with driver	Rs. 2000/-
52	Car/Jeep with driver	Rs. 800/-
53	Tractor with trolley	Rs. 600/-
54	Tripod with 5 Tons Chain Pulley Block	Rs. 300/-
55	Pneumatic Drill (Tractor mounted for blasting) with Compressor	Rs. 3500/-

NOTES:-

1. Rates are final and Tenderer is to sign only without deviation.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

2. Rates are inclusive of operators / drivers and POL.
3. Rates are inclusive of contractor's overheads & profit.
4. The recovery rates shall be the rates provided above plus 20% (twenty percent).

SIGNATURE OF THE BIDDER: _____

NAME OF THE BIDDER: _____



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

**SECTION-9
SCHEDULE OF RATES**

Signature & Seal of Bidder



Bhagyanagar Gas Ltd.

**LAYING OF UNDERGROUND STEEL PIPELINE
AT TOLICHOWKI NALLAH AND PROVISION
OF PCC PROTECTION DUE TO SHALLOW
DEPTH AND STEEL PIPELINE TO CONNECT
THE M/S. SAIPRIYA FILLING STATION,
SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of II

Part-A

Laying of underground steel pipeline at Tolichowki Nallah and provision of PCC protection due to shallow depth



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

SCHEDULE OF RATES (PART-A)

Tender Name:- Laying of underground steel pipeline at Tolichowki Nallah and provision of PCC protection due to shallow depth

Tender No:- BGL/704/2025-26

Sl. No.	Description of Item	HSN/SAC CODE	Unit	Qty	Unit Rate (Inclusive of all taxes except GST) in Rs.	Total Amount (Inclusive of all taxes except GST) in Rs.
(1)	(2)		(3)	(4)	(5)	(6)
						(4) x (5)
ML-1	CARBON STEEL PIPES & MDPE PIPES					
1.1	PIPELINE LAYING / INSTALLATION					
	a) Coated Steel pipe lines laying					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Receiving , loading , unloading and transportation and stacking of 3-Layer PE coated and bare line pipes issued by BGL as free issue materials from BGL designated store yard within GHMC limits of Hyderabad to Contractor's stock yard/workshop/work-site. The scope of contractor includes preparation of drawings, wherever required for crossing etc. including handling, stacking, stringing on the pipeline route alignment, carrying out inspection of BGL supplied materials including linepipes at the time of taking over, laying/ installation of coated linepipes as per specification wherever required depending on site condition including execution of all works, "taking over", handling , including loading and unloading, transportation of Owner supplied materials from Owner's designated place (s) of issue to work site. Arrangement of all additional lands required for Contractor's storage, fabrication, access for construction, procurement and supply of all materials (except Owner supplied materials), consumables, equipment, labour and other inputs, carrying out all temporary, ancillary, auxiliary works, ready for commissioning of pipeline as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works:

Signature & Seal of Bidder



Bhagyanagar Gas Ltd.

**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Surveying of route and detours required at the time of execution including marking the same in topographical sheet, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.					
Clearing, full filling all the requirements of various statutory/ environment authorities to the entire satisfaction of concerned authorities, grading of work area. Relocating of any obstruction within the Pipeline route alignment / Approved route viz. electrical lines/ poles, telephone line / poles, foreign pipeline, etc. in co-ordination with concerned authorities and obtain permissions from these authorities for pipeline execution.					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Trenching to required depths by excavation in all types of soils **except built up sections** on top as different type of pavement / footpath / roads etc. as required by using mechanical excavator or manually depending on the site condition and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline coating to the top of undisturbed surface of the soil or as per SCC/ relevant code, whichever is higher]. All necessary arrangement will be made and adequate precautions for working at the required depth will be taken by the contractor. Dewater of trenches if required as per site condition is included in the scope of contractor. As SVs shall be buried on the pipeline alignment itself with RCC pits and covers, the steel pipeline has to be taken to the required lower depth (as required) by use of slope or vertical bends to accommodate the above without additional cost to BGL

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

<p>During the execution of the work, the construction area shall be barricaded to ensure the smooth execution of work and safety of the public/ working area. The item also includes fabrication, transportation and placing the barricading at the site. Barricading to be made as per approved drawing and to the entire satisfaction of Owner / Engineer-in-charge. cost towards barricading shall be paid as per separate SOR item.</p>					
<p>Carrying out repairs of pipe defects/ replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner including defects/ damages occurring during transportation / handling.</p>					
<p>Stringing of line pipes along pipeline trench /sand / soft soil bags including supply of bags and its filling materials.</p>					
<p>Checking, cleaning, aligning, bending, cutting and bevelling (as required) of pipes for welding and field adjustments including pipe fittings, welding, carrying out non-destructive testing of welds as required including 100% radiography by X - ray (Gamma Ray where X-ray is not possible at the discretion of EIC) and providing all requisite equipment, labour, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required, carrying out repairs of weld joints found defective by Engineer-in-Charge, carrying out re-radiography and other tests as required on repaired joints.</p>					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Carrying out installation of carrier line pipe at all minor crossing viz. road, cartrack, pathway, water bodies etc. at designated depth by open cut (except at crossing by HDD method/ moling / Augur boring).

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Obtaining in principle ROU permission for laying of the pipeline from the concerned land owning authority (i.e. GHMC / HMWSSB / NHAI / HMDA , R&B etc.) is in the scope of the contractor. Amount for Application fees, Demand note or any other statutory fees will be paid by BGL. Also all the liasioning with any authority such as GHMC / HMWSSB / NHAI / HMDA, R&B, local officials, traffic police, police, ESCOM, BSNL, Railways, RTO etc. and any other utility companies / agencies such as OFC operators etc. during the execution of pipeline laying, are in the scope of the contractor.

The scope also includes liasioning with Society / individual land owners, road owning authorities for smooth execution of pipeline laying. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies/ authorities) is in scope of the Contractor.

The liasioning during the execution for all the pipelines for the installed buried length shall be paid as per SOR item ML-6.0 separately.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Coating of field weld joints, long radius bends (R=3D), elbows, buried fittings and valves etc. including supply of coating materials etc. (i.e. heat shrinkable sleeves and high build epoxy etc.) as per PJS & Technical Specification compatible with 3 layer PE coating material of the line pipe.					
Installation of LR Bend (R = 3D) , as per specification wherever required depending on site condition. However, Supply of 3D bends shall be paid by separate item mentioned elsewhere in SOR.					
Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings including padding around pipeline with suitable soil duly approved by EIC including supply of padding material, backfilling and its compaction to the satisfaction of concerned authorities with excavated earth / borrowed select soil including supply of borrowed select soil duly approved by EIC.					
Supply & Installation of warning mat (600 mm width and 0.5 mm thick) covering both steel & MDPE pipe on the entire length of both the pipelines as per specification. Warning tape should have anti rodent properties.					
Supply and installation of slope breakers, wherever required or, as directed by Owner / Engineer-in-charge.					
Crossing the all-foreign pipeline / HT line / cable / any other utilities etc. with necessary concrete / PVC protection/ grating including coordination with all agencies and obtaining NOC.					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Carrying out air cleaning, flushing, cleaning and hydrostatic testing of complete pipeline with required quantity of corrosion inhibitor including pre-testing of designated sections complete as per specification and approved by Engineer-in-charge to specified pressures indicated elsewhere and duration after stabilization as per specification, providing all equipment, pumps, fittings, instruments, dead weight tester, pressure recorder, thermocouples etc., and services, supervision, labour, consumables, water including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defect attributable to Contractor (rectification of defects in linepipe material not attributable to contractor shall be paid separately as per other item of schedule of rate), re-testing after rectification, dewatering after successful completion of hydrotesting of entire section and as approved by Engineer-in-Charge.

(Note : Leak detection, its rectification and successfully re-hydrotesting shall be carried out by Contractor with a view that completion of all activity for successful hydrotesting is not inordinately extended, which will hamper the overall project schedule. Further, no extra payment claim shall be entertained for re-hydrotesting and leak detection if defects found attributable to Contractor.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

<p>All tying-in, including the tie-in(s) of the pipeline with the adjacent sections of pipeline including cutting of test header, rebeveling as required, radiography and other NDT examination, joint coating as per specification.</p>					
<p>Final clean-up & restoration of right-of-use or area disturbed by contractor including obtaining NOC from respective land owner and statutory authorities during their construction activities for laying of pipeline works and disposal of debris, excess soil to designated disposal areas as per local authorities/BGL and returning all surplus material to designated storage yard and backfilling of trench and compaction of the same as per satisfaction of Owner and / Or as directed by Engineer-in-charge.</p>					
<p>Restoration of land, facilities and boundary wall etc. And associated facilities dismantled/damaged by the Contractor during construction;</p>					
<p>Installation of all buried valves inside the valve pit and making provision to operate the valve.</p>					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

<p>Carrying out Sectionalising valve station including tap-off for distribution pipelines on underground steel grid main pipeline & branch pipeline, valves, barred tees, insulating joints, bends (R=3D/1.5D/1D), flanges & fittings, accessories etc. , tie-in of valve assembly including radiography of tie-in joints as per Schematic Layout Drawings of respective sections, Technical Specification and aboveground approach pipeline upto Insulating Joint (including installation of aboveground / underground insulating joint) for various stations. However, construction of valve pits and erection of flow tees, valves, pipe fittings etc. on the burried pipeline in the valve pits for sectionalising valve stations and tap off shall be paid by separate item mentioned elsewhere in SOR.</p>					
<p>Protective coating of 500 micron thick two component (applied with the help of minimum three coats) liquid epoxy including supply of materials duly approved by Owner for all piping valves, fittings, structural steels etc. for buried installation and inside the valve pit as approved by the Engineer-in-charge.</p>					
<p>Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre-commissioning;</p>					
<p>Preparation of as-built drawings, pipe-books including collection of GPS co-ordinates.(Drawings /documents to be submitted as per SCC) All the works shall be executed in accordance with the provision of contract including carrying out all temporary/ ancillary/ auxiliary works required for the performance of the works and all other acts, deeds, matters and things necessary to make the pipeline ready for precommissioning activities.</p>					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

b) MDPE Pipes laying in the same trench of Steel pipe lines

Trenching to required depths by excavation in all types of soils except built up sections on top as different type of pavement / footpath / roads etc. Storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width (steel pipe line to MDPE clearance shall be 150 mm) to accommodate the pipeline , MDPE Pipe (125 / 90mm, SDR 11, PE 100 Pipe), adjacent to each other with 150 mm clearance except for the location of crossover points of MDPE over steel pipeline for change of sides due to site condition and MDPE pipe flexibility as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline to the top of undisturbed surface of the soil or as top of MDPE pipeline wherever crossing the steel pipeline, as per SCC/ relevant code, whichever is higher]. Dewater of trenches if required as per site condition.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

<p>Loading, storing, unloading and laying of PE100, SDR11 line pipes of size 125 / 90 mm in steel pipe line trench including ,proper stacking, identification,and supply of accessories of all sizes & thickness like PE Bends, Couplers, Endcaps, Tee, Reducer, CS to PE Fittings, Saddle Tapping, GI sleeves etc.. Handling, Stringing/ uncoiling,aligning of the PE line pipe on the pipeline Right-of-Use/route , laying/ installation of PE line pipe alongwith required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; additional lands required for contractor's storage , fabrication, access for construction;procurement and supply of all materials , consumables,equipments, labour and other inputs. In case of free issue items,the scope also includes, receiving and loading from BGL designated store, transportation, unloading and stacking of free issue items at Contractor's store</p>					
<p>Carrying out all temporary, ancillary, auxiliary works requiredto make the PE pipeline ready for commissioning including cleaning, flushing and removing the ingress of water / moisture etc., as per drawings.</p>					
<p>Specifications, scope of work indicated in PJS and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works:</p>					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Carrying out preliminary activities such as preparation of drawings wherever required for crossing etc.					
Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.					
Uncoiling/ stringing & aligning of PE pipes, clamping, jointing of the pipe ends/ fittings/ valves by qualified personnel using approved electro-fusion techniques as per specification.					
Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings.					
Electro-fusion jointing of valves wherever required and as directed by Engineer-in-charge.					
Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.					
Supply of bricks (class 35) and placing the brick along its length across the length of MDPE pipeline.					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	<p>Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified schedule at no extra cost to BGL. All the work shall be executed in accordance with the provision of contract.</p>																
	<p>Installation of Coated Line Pipes & MDPE pipes as per following details:</p>																
	<table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">Specified dia.</td> <td style="width: 15%;">Thk (mm)</td> <td style="width: 20%;">Material</td> <td style="width: 10%;">Coating</td> </tr> <tr> <td>Type</td> <td></td> <td>Length of each pipe</td> <td></td> </tr> <tr> <td>(mm) NB</td> <td></td> <td></td> <td></td> </tr> </table>	Specified dia.	Thk (mm)	Material	Coating	Type		Length of each pipe		(mm) NB							
Specified dia.	Thk (mm)	Material	Coating														
Type		Length of each pipe															
(mm) NB																	
	<p>Note:</p>																
<p>i)</p>	<p>This item shall be applicable for the underground steel grid main pipeline & branch pipeline including tap-off for distribution pipelines, valves, barred tees, insulating joints, bends (R=3D), flanges & fittings, accessories etc. , tie-in of valve assembly including radiography of tie-in joints as per Schematic Layout Drawings of respective sections, Technical Specification and aboveground approach pipeline upto Insulating Joint (including installation of aboveground / underground insulating joint) for various stations.</p>																
<p>ii)</p>	<p>Supply of all valves, flanges, fittings, assorted pipes, barred tees & insulating Joints, etc. shall be paid by separate item mentioned elsewhere in SOR.</p>																

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

iii)	In above item, backfilling of pipeline trench by borrowed select soil duly approved by Owner / EIC shall be paid by separate item mentioned elsewhere in the SOR.					
iv)	Contractor shall not perform any pipeline activities along Pipe alignment without specified barricading as per Std. Drg. and other safety measures.					
v)	The lengths of pipelines are tentative. All items required to complete the laying and commissioning except the Items covered separately in this SOR are included under the scope of this item					
vi)	Cutting of Hard Rock shall be paid on CUM basis as per separate SOR item.					
vii)	The Quoted rate shall be of laying of steel pipe line & MDPE pipeline laying in the same trench as per the drawing. line trench . CS main pipes & MDPE pipes are free issue materials to the contractor. Any stand-alone trenching required to detour PE pipeline laying due to space constraint shall be in the scope of contractor without any extra cost to BGL.					

Signature & Seal of Bidder



LAYING OF UNDERGROUND STEEL PIPELINE AT TOLICHOWKI NALLAH AND PROVISION OF PCC PROTECTION DUE TO SHALLOW DEPTH AND STEEL PIPELINE TO CONNECT THE M/S. SAIPRIYA FILLING STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26

Vol II of II

viii)	The Quoted rate shall include PE pipe branch connections laying in the same item as steel pipe laying. BGL will not provide any Tees, pipe, caps and fittings as free issue for PE branch connections wherever required. PE pipe laying is to be included in the rate quoted for steel pipe laying. i.e. parallel laying of both steel and MDPE in same					
1.2	Same as item 1.1 above but with built up sections (different type of pavement / footpath / roads etc. which includes Asphalt roads, Tiled pavement and PCC/RCC roads) on the top surface					
	Installation of Coated Line Pipes & MDPE Pipes as per following details:					
	Specified dia. Thk (mm) Material Coating Type Length of each pipe (mm) NB					
1.2.1	300 6.4 API 5 L Gr.X-52 3 Layer PE Double random Coating (Externally) (approx.11.5m to12.5m) MDPE Pipe - 125 mm dia of PE 100		Meter	200.00		0
1.4	PE Pipe Laying using Horizontal Directional Drilling (HDD) Technique:					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Laying of PE pipe , including supply of Couplers, as required to complete the job. Survey of U/G utilities, survey with requisite equipment / manpower, submission of profile drawings and design for approval, execution of the work as per standard procedure attached with proper capacity machine including excavation of pits and subsequent backfilling, compaction, jointing and insertion of PE pipe, testing & commissioning, restoration of the pits to to original condition, submission of As-Built Graph as per specifications and the instruction of Engineer-in-charge. If any additional temporary space is required for positioning of equipment for HDD adjacent to pipeline route, same needs to be arranged by the contractor. Item also includes liaisoning with all local authorities, permission if any required, shall be obtained by the contractor.

i)	HDD Without casing Pipe					
1.4.1	125 / 90 mm PE 100 pipe		Meters	120.00		0
ML-2	Restoration of asphalted roads / concrete roads / pavements / foot paths, wherever instructed by EIC .Job includes getting NOC from the concerned authorities.					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

a)	<p>Asphalt road :Restoration of bitumen Asphalt road after laying of Pipe lines as per the relevant drawing, specifications and instruction of Engineer-In-Charge. Restoration of roads shall be done as per requirement of EIC/Hyderabad GHMC/NH/etc. and to get NOC from the concerned authorities. Restoration of the asphalt road cut portion for pipeline trench width shall be carried out by filling the bottom layer with with stone dust / Quarry dust watering & compaction followed by 200mm thk GSB & 250 mm thk WMM with top bituminous layers comprising of primer coat, tack coat, 50mm thk DBM & 40 mm thk BC matching with the existing road top level.This item alos includes disposal of surplus soil / debris with all lift & leads. Reinforced Cement Concrete road/ pavement: Restroation of Reinforced concrete road and pavements shall be done by providing PCC 1:4:8 of 75 mm thick and RCC 1:2:4 of 100 mm thickness and providing minimum 8mm dia reinforcement steel at 200mm c/c . The cost of reinforcement . Shuttering, compacting the base surface etc. are in the scope of this item.</p>		Meter	150.00		0
ML-4	Steel Pipeline Laving by Horizontal Directional Drilling (HDD) Technique (without casing pipe):					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Complete HDD work of the road /Nala crossing (between the limits are defined as in approved drawings including HDD along the road / nala) by HDD method including "Receiving and taking over" owner supplied three layer PE coated line pipes from Owner's designated place to issue/ dump site(s) and transportation to Contractor's stock yard/ work shop/ work site including all handling loading, unloading, aligning etc., manpower, equipment, other resources and acquiring the required land for storage, fabrication including string preparation of pipes(carrier), welding, welding repair, radiography, coating of field joints with special type Heat Shrink Sleeve and repair of pipeline coating with special repair patch materials as per specification, pre-testing etc. of complete string made for crossing access for Contractor etc. and execution of, but not limited to, following works in accordance with specifications and instruction of Engineer-in- charge and as per all provision of Contract Document.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Pre-construction survey based on site visit, collection of data(if required) from concerned Authority including design and detail engineering and making of crossing drawings for getting their approval from concerned Authority/ & Engineer-in- charge, getting work permit/ NOC for road/ Nala crossing as well as utility crossings (if any) encountered during road/ Nala crossing prior to start the execution of work.					
Directional drilling to required depth from top of road/ Nala Bed including maintenance of drill hole in all types of strata including rocky terrain at all depth to accommodate the pipeline at all conditions encountered during road/ Nala crossing by approved HDD methods for providing minimum cover specified in code/ specification or the actual depth as decided by concerned authority, whichever is more.					
Backfilling of the ditch/ trench including restoration and cleanup of area and all other works including pigging, cleaning, final hydrotesting etc. alongwith mainline works (as mentioned in item no. 1.0 above) required as per specification, approved drawings, calculations, methods and to the satisfaction of Engineer-in-charge and/or as directed by concerned Authority.					

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Obtaining in principle permission for HDD of the pipeline from the concerned authority (i.e. GHMC / HMWSSB / NHAI / HMDA , R&B, railway etc.) is in the scope of the contractor. Amount for Application fees, Demand note or any other statutory fees will be paid by BGL. Also all the liasioning with any authority such as GHMC / HMWSSB / NHAI / HMDA, R&B, local officials, traffic police, police, ESCOM, BSNL, Railways, RTO, Local vendors, shops, etc. and any other utility companies / agencies such as OFC operators etc. during the execution of pipeline laying, are in the scope of the contractor. The scope also includes liasioning with Society / individual land owners, road owning authorities for smooth execution of work. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies/ authorities) is in scope of the Contractor. The liasioning during the execution for all the pipelines for the HDD length shall be paid as per SOR item ML-6.0 separately.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	Incase of hard rock contractor has to establish through bore log soil investigation data for carrying out the HDD with suitable diamond bit					
4.1	Steel pipeline HDD (without casing pipe): In all type of soil excluding HARD ROCK AREA					
i	For carrier pipeline of 3LPE Coated Carbon Steel Pipeline with Line pipe detail 12" NB, 6.4 mm thk API 5LX52.		Meter	75		0
4.2	Steel pipeline HDD (without casing pipe): IN HARD ROCK AREA USING DIAMOND CUTTER with drilling in hard rock length at the rate of not more than 4.5 m per hour and carrying out soil investigation and lab analysis at a maximum span of 25 metres for establishing the hard rock HDD length to be paid under this item					
	For carrier pipeline of 3LPE Coated Carbon Steel Pipeline with Line pipe detail 6" NB, 6.4 mm thk API 5LX52					
i	For carrier pipeline of 3LPE Coated Carbon Steel Pipeline with Line pipe detail 12" NB, 6.4 mm thk API 5LX52.		Meter	25		0

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

ML-6	<p>Liasoning & Obtaining Permission for laying of steel pipelines of all sizes by all methods including laying of 125 / 90 NB PE pipeline in the steel pipe trench, wherever required: Obtaining ROU permission for laying of the pipeline from the concerned land owning authority (i.e. GHMC / HMWSSB / NHAI / HMDA , R&B etc.) is in the scope of the contractor. All liasioning and pursuation till issuance of Demand note / other applicable similar document is issued by the permitting authority, is to be carried out by the contractor only. BGL will hand over the application form to the contractor. Amount for Application fees, Demand note or any other statutory fees will be paid by BGL. Further, all the liasioning with any authority such as GHMC / HMWSSB / NHAI / HMDA, R&B, local officials, traffic police, police, ESCOM, BSNL, Railways, RTO etc. and any other utility companies / agencies such as OFC operators etc. during the execution of pipeline laying, are in the scope of the contractor.</p> <p>The scope also includes liasioning with Society / individual land owners, road owning authorities for smooth execution of pipeline laying. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies/ authorities) is in scope of the Contractor.</p>		Meters	320		0
ML-6.1	12" Rectification including Balance Tie-ins, Hydro-testing, dewatering and Swabbing, Final cleanup, N2 Purging and restoration (as per respective rate), Submission of as built drgs.		Meters	1000		0

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

ML-13	LONG RADIUS BENDS					
	Supply of Long Radius Bends (R = 3D) for 6" dia.pipe, (thk. 6.4 mm) as per specification enclosed in Tender Document. (Installation of bends is included in the pipeline laying and measured along with the pipeline)					
13.1	22.5 ° and lower MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.		Nos.	1		0
13.2	23 ° - 45°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.		Nos.	1		0
13.3	46° - 60°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.		Nos.	1		0
13.4	61° - 90°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.		Nos.	2		0
Total Amount (Inclusive of all taxes except GST) in Rs.						-
Sub Total ((Inclusive of all taxes except GST) in Rs.						-
GST %						
GST Amount (Rs.)						-
Grand Total (Inclusive of all taxes and GST)						-

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

Amoun In Word

Part-B

Laying of Underground steel pipeline to connect the M/s. Saipriya Filling Station, Shapur

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

SCHEDULE OF RATES (PART-B)

Tender Name:- Laying of Underground steel pipeline to connect the M/s. Saipriya Filling Station, Shapur

Tender No.:- BGL/704/2025-26

Sl. No.	Description of Item	HSN/SAC Code	Unit	Size	Rating/ Thk.	Quantity	Unit Rate (Inclusive of all taxes except GST) in Rs.	Total Amount (all inclusive except GST) in Rs.
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)
					Sch.			(6) x (7)
ML-1	CARBON STEEL PIPES & MDPE PIPES							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

1.1 PIPELINE LAYING / INSTALLATION

a) Coated Steel pipe lines laying

Receiving , loading , unloading and transportation and stacking of 3-Layer PE coated and bare line pipes issued by BGL as free issue materials from BGL designated store yard within GHMC limits of Hyderabad to Contractor's stock yard/workshop/work-site. The scope of contractor includes preparation of drawings, wherever required for crossing etc. including handling, stacking, stringing on the pipeline route alignment, carrying out inspection of BGL supplied materials including linepipes at the time of taking over, laying/ installation of coated linepipes as per specification wherever required depending on site condition including execution of all works, "taking over", handling , including loading and unloading, transportation of Owner supplied materials from Owner's designated place (s) of issue to work site. Arrangement of all additional lands required for Contractor's storage, fabrication, access for construction, procurement and supply of all materials (except Owner supplied materials), consumables, equipment, labour and other inputs, carrying out all temporary, ancillary, auxiliary works, ready for commissioning of pipeline as per drawings, specifications, other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works:

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	<p>Surveying of route and detours required at the time of execution including marking the same in topographical sheet, preparation of construction drawings showing survey details, and submit same to Owner for review / approval.</p>						
	<p>Clearing, full filling all the requirements of various statutory/ environment authorities to the entire satisfaction of concerned authorities, grading of work area. Relocating of any obstruction within the Pipeline route alignment / Approved route viz. electrical lines/ poles, telephone line / poles, foreign pipeline, etc. in co-ordination with concerned authorities and obtain permissions from these authorities for pipeline execution.</p>						
	<p>Trenching to required depths by excavation in all types of soils except built up sections on top as different type of pavement / footpath / roads etc. as required by using mechanical excavator or manually depending on the site condition and storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width to accommodate the pipeline as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline coating to the top of undisturbed surface of the soil or as per SCC/ relevant code, whichever is higher]. All necessary arrangement will be made and adequate precautions for working at the required depth will be taken by the contractor. Dewater of trenches if required as per site condition is included in the scope of contractor. As SVs shall be buried on the pipeline alignment itself</p>						

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

<p>with RCC pits and covers, the steel pipeline has to be taken to the required lower depth (as required) by use of slope or vertical bends to accommodate the above without additional cost to BGL</p>						
<p>During the execution of the work, the construction area shall be barricaded to ensure the smooth execution of work and safety of the public/ working area. The item also includes fabrication, transportation and placing the barricading at the site. Barricading to be made as per approved drawing and to the entire satisfaction of Owner / Engineer-in-charge. cost towards barricading shall be paid as per separate SOR item.</p>						
<p>Carrying out repairs of pipe defects/ replacement in case of irreparable defects and repairs of defects of pipe coating not attributable to Owner including defects/ damages occurring during transportation / handling.</p>						
<p>Stringing of line pipes along pipeline trench /sand / soft soil bags including supply of bags and its filling materials.</p>						

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

**Vol II of
II**

<p>Checking, cleaning, aligning, bending, cutting and bevelling (as required) of pipes for welding and field adjustments including pipe fittings, welding, carrying out non-destructive testing of welds as required including 100% radiography by X - ray (Gamma Ray where X-ray is not possible at the discretion of EIC) and providing all requisite equipment, labour, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required, carrying out repairs of weld joints found defective by Engineer-in-Charge, carrying out re-radiography and other tests as required on repaired joints.</p>							
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<p>Carrying out installation of carrier line pipe at all minor crossing viz. road, carttrack, pathway, water bodies etc. at designated depth by open cut (except at crossing by HDD method/ moling / Augur boring).</p>							
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Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Obtaining in principle ROU permission for laying of the pipeline from the concerned land owning authority (i.e. GHMC / HMWSSB / NHAI / HMDA , R&B etc.) is in the scope of the contractor. Amount for Application fees, Demand note or any other statutory fees will be paid by BGL. Also all the liasioning with any authority such as GHMC / HMWSSB / NHAI / HMDA, R&B, local officials, traffic police, police, ESCOM, BSNL, Railways, RTO etc. and any other utility companies / agencies such as OFC operators etc. during the execution of pipeline laying, are in the scope of the contractor.

The scope also includes liasioning with Society / individual land owners, road owning authorities for smooth execution of pipeline laying. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies/ authorities) is in scope of the Contractor.

The liasioning during the execution for all the pipelines for the installed buried length shall be paid as per SOR item ML-6.0 separately.

Coating of field weld joints, long radius bends (R=3D), elbows, buried fittings and valves etc. including supply of coating materials etc. (i.e. heat shrinkable sleeves and high build epoxy etc.) as per PJS & Technical Specification compatible with 3 layer PE coating material of the line pipe.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	<p>Installation of LR Bend (R = 3D) , as per specification wherever required depending on site condition. However, Supply of 3D bends shall be paid by separate item mentioned elsewhere in SOR.</p>						
	<p>Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings including padding around pipeline with suitable soil duly approved by EIC including supply of padding material, backfilling and its compaction to the satisfaction of concerned authorities with excavated earth / borrowed select soil including supply of borrowed select soil duly approved by EIC.</p>						
	<p>Supply & Installation of warning mat (600 mm width and 0.5 mm thick) covering both steel & MDPE pipe on the entire length of both the pipelines as per specification. Warning tape should have anti rodent properties.</p>						
	<p>Supply and installation of slope breakers, wherever required or, as directed by Owner / Engineer-in-charge.</p>						
	<p>Crossing the all-foreign pipeline / HT line / cable / any other utilities etc. with necessary concrete / PVC protection/ grating including coordination with all agencies and obtaining NOC.</p>						
	<p>Carrying out air cleaning, flushing, cleaning and hydrostatic testing of complete pipeline with required quantity of corrosion inhibitor including pre-testing of designated sections complete as per specification and approved by Engineer-in-charge to specified pressures indicated elsewhere and duration after stabilization as per specification, providing all equipment, pumps,</p>						

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

<p> fittings, instruments, dead weight tester, pressure recorder, thermocouples etc., and services, supervision, labour, consumables, water including supply of corrosion inhibitor, air, etc. as required, locating of leaks and rectification of defect attributable to Contractor (rectification of defects in linepipe material not attributable to contractor shall be paid separately as per other item of schedule of rate), re- testing after rectification, dewatering after successful completion of hydrotesting of entire section and as approved by Engineer-in-Charge.</p>							
<p>(Note : Leak detection, its rectification and successfully re-hydrotesting shall be carried out by Contractor with a view that completion of all activity for successful hydrotesting is not inordinately extended, which will hamper the overall project schedule. Further, no extra payment claim shall be entertained for re-hydrotesting and leak detection if defects found attributable to Contractor.</p>							
<p>All tieing-in, including the tie-in(s) of the pipeline with the adjacent sections of pipeline including cutting of test header, rebeveling as required, radiography and other NDT examination, joint coating as per specification.</p>							
<p>Final clean-up & restoration of right-of-use or area disturbed by contractor including obtaining NOC from respective land owner and statutory authorities during their construction activities for laying of pipeline works and disposal of debris, excess soil to designated disposal areas as per local authorities/BGL and returning all surplus material to designated storage yard and backfilling of trench and compaction of the same as per</p>							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	satisfaction of Owner and / Or as directed by Engineer-in-charge.							
	Restoration of land, facilities and boundary wall etc. And associated facilities dismantled/damaged by the Contractor during construction;							
	Installation of all burried valves inside the valve pit and making provision to operate the valve.							
	Carrying out Sectionalising valve station including tap-off for distribution pipelines on underground steel grid main pipeline & branch pipeline, valves, barred tees, insulating joints, bends (R=3D/1.5D/1D), flanges & fittings, accessories etc. , tie-in of valve assembly including radiography of tie-in joints as per Schematic Layout Drawings of respective sections, Technical Specification and aboveground approach pipeline upto Insulating Joint (including installation of aboveground / underground insulating joint) for various stations. However, construction of valve pits and erection of flow tees, valves, pipe fittings etc. on the burried pipeline in the valve pits for sectionalising valve stations and tap off shall be paid by separate item mentioned elsewhere in SOR.							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	<p>Protective coating of 500 micron thick two component (applied with the help of minimum three coats) liquid epoxy including supply of materials duly approved by Owner for all piping valves, fittings, structural steels etc. for buried installation and inside the valve pit as approved by the Engineer-in-charge.</p>							
	<p>Carrying out all temporary, ancillary, auxiliary works and all incidental works required to make the pipeline ready for pre-commissioning;</p>							
	<p>Preparation of as-built drawings, pipe-books including collection of GPS co-ordinates.(Drawings /documents to be submitted as per SCC) All the works shall be executed in accordance with the provision of contract including carrying out all temporary/ ancillary/ auxiliary works required for the performance of the works and all other acts, deeds, matters and things necessary to make the pipeline ready for pre commissioning activities.</p>							
	<p>b) MDPE Pipes laying in the same trench of Steel pipe lines</p>							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Trenching to required depths by excavation in all types of soils except built up sections on top as different type of pavement / footpath / roads etc. Storing excavated soil, reusable materials at designated area as directed by Engineer in charge and to a width (steel pipe line to MDPE clearance shall be 150 mm) to accommodate the pipeline , MDPE Pipe (125 / 90mm, SDR 11, PE 100 Pipe), adjacent to each other with 150 mm clearance except for the location of crossover points of MDPE over steel pipeline for change of sides due to site condition and MDPE pipe flexibility as per the relevant standard/ specification etc. [The minimum depth of the top of pipeline shall be 1.0 m measured from top of pipeline to the top of undisturbed surface of the soil or as top of MDPE pipeline wherever crossing the steel pipeline, as per SCC/ relevant code, whichever is higher]. Dewater of trenches if required as per site condition.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

<p>Loading, storing, unloading and laying of PE100, SDR11 line pipes of size 125 / 90 mm in steel pipe line trench including proper stacking, identification, and supply of accessories of all sizes & thickness like PE Bends, Couplers, Endcaps, Tee, Reducer, CS to PE Fittings, Saddle Tapping, GI sleeves etc.. Handling, Stringing/ uncoiling, aligning of the PE line pipe on the pipeline Right-of-Use/route, laying/ installation of PE line pipe alongwith required accessories as mentioned above as per specification wherever required depending on site condition including execution of all works; additional lands required for contractor's storage, fabrication, access for construction; procurement and supply of all materials, consumables, equipments, labour and other inputs. In case of free issue items, the scope also includes, receiving and loading from BGL designated store, transportation, unloading and stacking of free issue items at Contractor's store</p>							
<p>Carrying out all temporary, ancillary, auxiliary works required to make the PE pipeline ready for commissioning including cleaning, flushing and removing the ingress of water / moisture etc., as per drawings.</p>							
<p>Specifications, scope of work indicated in PJS and other provisions of Contract document and instructions of Engineer- in-charge, including but not limited to carrying out the following works:</p>							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Carrying out preliminary activities such as preparation of drawings wherever required for crossing etc.								
Preparation and getting approval of schedules, execution procedures, drawings/ sketches/ wherever required, making trial pits to determine the underground utilities/ services etc., restoration of the abandoned trial pits to original condition.								
Uncoiling/ stringing & aligning of PE pipes, clamping, jointing of the pipe ends/ fittings/ valves by qualified personnel using approved electro-fusion techniques as per specification.								
Installation / lowering the pipeline in trench to required depth as per PJS, Technical Specification & drawings.								
Electro-fusion jointing of valves wherever required and as directed by Engineer-in-charge.								
Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories and as per the instructions of the Engineer-in-charge.								

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	Supply of bricks (class 35) and placing the brick along its length across the length of MDPE pipeline.							
	Any other activities not mentioned/ covered explicitly above, but otherwise required for satisfactory completion/ operation/ safety/ statutory/ maintenance of the works shall also be covered under the scope of work and has to be completed by the Contractor within specified schedule at no extra cost to BGL. All the work shall be executed in accordance with the provision of contract.							
	Installation of Coated Line Pipes & MDPE pipes as per following details:							
	Specified dia. Thk (mm) Material Coating Type Length of each pipe (mm) NB							
1.1.1 (a)	150# 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx.11.5 m to 12.5 m) & MDPE Pipe - 125 / 90 mm dia of PE 100		Mtrs			50.00		0
(b)	100# 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx.11.5 m to 12.5 m)		Mtrs			70.00		0
	Note:							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

i)	This item shall be applicable for the underground steel grid main pipeline & branch pipeline including tap-off for distribution pipelines, valves, barred tees, insulating joints, bends (R=3D), flanges & fittings, accessories etc. , tie-in of valve assembly including radiography of tie-in joints as per Schematic Layout Drawings of respective sections, Technical Specification and aboveground approach pipeline upto Insulating Joint (including installation of aboveground / underground insulating joint) for various stations.							
ii)	Supply of all valves, flanges, fittings, assorted pipes, barred tees & insulating Joints, etc. shall be paid by separate item mentioned elsewhere in SOR.							
iii)	In above item, backfilling of pipeline trench by borrowed select soil duly approved by Owner / EIC shall be paid by separate item mentioned elsewhere in the SOR.							
iv)	Contractor shall not perform any pipeline activities along Pipe alignment without specified barricading as per Std. Drg. and other safety measures.							
v)	The lengths of pipelines are tentative. All items required to complete the laying and commissioning except the Items covered separately in this SOR are included under the scope of this item							
vi)	Cutting of Hard Rock shall be paid on CUM basis as per separate SOR item.							

Signature & Seal of Bidder



LAYING OF UNDERGROUND STEEL PIPELINE AT TOLICHOWKI NALLAH AND PROVISION OF PCC PROTECTION DUE TO SHALLOW DEPTH AND STEEL PIPELINE TO CONNECT THE M/S. SAIPRIYA FILLING STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26

Vol II of II

vii)	The Quoted rate shall be of laying of steel pipe line & MDPE pipeline laying in the same trench as per the drawing. line trench . CS main pipes & MDPE pipes are free issue materials to the contractor. Any stand-alone trenching required to detour PE pipeline laying due to space constraint shall be in the scope of contractor without any extra cost to BGL.							
viii)	The Quoted rate shall include PE pipe branch connections laying in the same item as steel pipe laying. BGL will not provide any Tees, pipe, caps and fittings as free issue for PE branch connections wherever required. PE pipe laying is to be included in the rate quoted for steel pipe laying. i.e. parallel laying of both steel and MDPE in same							
1.2	Same as item 1.1 above but with built up sections (different type of pavement / footpath / roads etc. which includes Asphalt roads, Tiled pavement and PCC/RCC roads) on the top surface							
	Installation of Coated Line Pipes & MDPE Pipes as per following details:							
	Specified dia. Thk (mm) Material Coating Type Length of each pipe (mm) NB							
1.2.1	150 6.4 API 5L Gr. X-52 3 Layer PE Double random Coating (Externally) (approx. 11.5 m to 12.5 m) & MDPE Pipe - 125 / 90 mm dia of PE 100		Mtrs			691.00		0

Signature & Seal of Bidder



LAYING OF UNDERGROUND STEEL PIPELINE AT TOLICHOWKI NALLAH AND PROVISION OF PCC PROTECTION DUE TO SHALLOW DEPTH AND STEEL PIPELINE TO CONNECT THE M/S. SAIPRIYA FILLING STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26

Vol II of II

1.3	<p>Cutting/ breaking of hard rock found in trenches using mechanical means such as rock breakers / excavators (blasting prohibited) etc. Scope also includes disposal of rocky earth after breaking to designated disposal areas as per local authorities/BGL. (wherever hard rock of single piece exceeding 1.0 m in length along the trench direction as per the decision & direction of EIC) The above item also include liasioning with state authorities / owners : Obtaining ROU and all permissions from the concerned land-owning / statutory authorities along the proposed route / area. However, the required statutory / mandatory fees will be paid by M/s BGL against demand note.The liasioning during the pipeline laying execution with local authorities & local officials, traffic ploice, police and any other utility companies / agencies such OFC operators etc are in the scope of the contractor. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies) is in scope of the contarctor.</p>		CUM		500.00		0
1.4	PE Pipe Laying using Horizontal Directional Drilling (HDD) Technique:						

Signature & Seal of Bidder



LAYING OF UNDERGROUND STEEL PIPELINE AT TOLICHOWKI NALLAH AND PROVISION OF PCC PROTECTION DUE TO SHALLOW DEPTH AND STEEL PIPELINE TO CONNECT THE M/S. SAIPRIYA FILLING STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26

Vol II of II

	Laying of PE pipe , including supply of Couplers, as required to complete the job. Survey of U/G utilities, survey with requisite equipment / manpower, submission of profile drawings and design for approval, execution of the work as per standard procedure attached with proper capacity machine including excavation of pits and subsequent backfilling, compaction, jointing and insertion of PE pipe, testing & commissioning, restoration of the pits to original condition, submission of As-Built Graph as per specifications and the instruction of Engineer-in-charge. If any additional temporary space is required for positioning of equipment for HDD adjacent to pipeline route, same needs to be arranged by the contractor. Item also includes liaisoning with all local authorities, permission if any required, shall be obtained by the contractor.							
i)	HDD Without casing Pipe							
1.4.1	125 / 90 mm PE 100 pipe		Mtrs			100.00		0
ML-2	Restoration of asphalted roads / concrete roads / pavements / foot paths, wherever instructed by EIC .Job includes getting NOC from the concerned authorities.							

Signature & Seal of Bidder



LAYING OF UNDERGROUND STEEL PIPELINE AT TOLICHOWKI NALLAH AND PROVISION OF PCC PROTECTION DUE TO SHALLOW DEPTH AND STEEL PIPELINE TO CONNECT THE M/S. SAIPRIYA FILLING STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26

Vol II of II

2.1	<p>Asphalt road :Restoration of bitumen Asphalt road after laying of Pipe lines as per the relevant drawing, specifications and instruction of Engineer-In-Charge. Restoration of roads shall be done as per requirement of EIC/Hyderabad GHMC/NH/etc. and to get NOC from the concerned authorities. Restoration of the asphalt road cut portion for pipeline trench width shall be carried out by filling the bottom layer with with stone dust / Quarry dust watering & compaction followed by 200mm thk GSB & 250 mm thk WMM with top bituminous layers comprising of primer coat, tack coat, 50mm thk DBM & 40 mm thk BC matching with the existing road top level.This item also includes disposal of surplus soil / debris with all lift & leads. Reinforced Cement Concrete road/ pavement: Restroration of Reinforced concrete road and pavements shall be done by providing PCC 1:4:8 of 75 mm thick and RCC 1:2:4 of 100 mm thickness and providing minimum 8mm dia reinforcement steel at 200mm c/c . The cost of reinforcement . Shuttering, compacting the base surface etc. are in the scope of this item.</p>		Mtrs			30.00		0
ML-3	<p>Steel Pipeline Laving by Horizontal Directional Drilling (HDD) Technique (without casing pipe):</p>							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Complete HDD work of the road /Nala crossing (between the limits are defined as in approved drawings including HDD along the road / nala) by HDD method including "Receiving and taking over" owner supplied three layer PE coated line pipes from Owner's designated place to issue/ dump site(s) and transportation to Contractor's stock yard/ work shop/ work site including all handling loading, unloading, aligning etc., manpower, equipment, other resources and acquiring the required land for storage, fabrication including string preparation of pipes(carrier), welding, welding repair, radiography, coating of field joints with special type Heat Shrink Sleeve and repair of pipeline coating with special repair patch materials as per specification, pre-testing etc. of complete string made for crossing access for Contractor etc. and execution of, but not limited to, following works in accordance with specifications and instruction of Engineer-in- charge and as per all provision of Contract Document.

Pre-construction survey based on site visit, collection of data (if required) from concerned Authority including design and detail engineering and making of crossing drawings for getting their approval from concerned Authority/ & Engineer-in- charge, getting work permit/ NOC for road/ Nala crossing as well as utility crossings (if any) encountered during road/ Nala crossing prior to start the execution of work.

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

<p>Directional drilling to required depth from top of road/ Nala Bed including maintenance of drill hole in all types of strata including rocky terrain at all depth to accommodate the pipeline at all conditions encountered during road/ Nala crossing by approved HDD methods for providing minimum cover specified in code/ specification or the actual depth as decided by concerned authority, whichever is more.</p>							
<p>Backfilling of the ditch/ trench including restoration and cleanup of area and all other works including pigging, cleaning, final hydrotesting etc. alongwith mainline works (as mentioned in item no. 1.0 above) required as per specification, approved drawings, calculations, methods and to the satisfaction of Engineer-in-charge and/or as directed by concerned Authority.</p>							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Obtaining in principle permission for HDD of the pipeline from the concerned authority (i.e. GHMC / HMWSSB / NHAI / HMDA , R&B, railway etc.) is in the scope of the contractor. Amount for Application fees, Demand note or any other statutory fees will be paid by BGL. Also all the liasioning with any authority such as GHMC / HMWSSB / NHAI / HMDA, R&B, local officials, traffic police, police, ESCOM, BSNL, Railways, RTO, Local vendors, shops, etc. and any other utility companies / agencies such as OFC operators etc. during the execution of pipeline laying, are in the scope of the contractor. The scope also includes liasioning with Society / individual land owners, road owning authorities for smooth execution of work. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies/ authorities) is in scope of the Contractor. The liasioning during the execution for all the pipelines for the HDD length shall be paid as per SOR item ML-6.0 separately.

Incase of hard rock contractor has to establish through bore log soil investigation data for carrying out the HDD with suitable diamond bit

Steel pipeline HDD (without casing pipe): In all type of soil excluding HARD ROCK AREA

Signature & Seal of Bidder



LAYING OF UNDERGROUND STEEL PIPELINE AT TOLICHOWKI NALLAH AND PROVISION OF PCC PROTECTION DUE TO SHALLOW DEPTH AND STEEL PIPELINE TO CONNECT THE M/S. SAIPRIYA FILLING STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26

Vol II of II

3.1	For carrier pipeline of 3LPE Coated Carbon Steel Pipeline with Line pipe detail 6" NB, 6.4 mm thk API 5LX52		Mtrs			100.00		0
ML-4	Liasioning							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

4.1	<p>Liasoning & Obtaining Permission for laying of steel pipelines of all sizes by all methods including laying of 125 / 90 NB PE pipeline in the steel pipe trench, wherever required:</p> <p>Obtaining ROU permission for laying of the pipeline from the concerned land owning authority (i.e. GHMC / HMWSSB / NHAI / HMDA , R&B etc.) is in the scope of the contractor. All liasioning and pursuation till issuance of Demand note / other applicable similar document is issued by the permitting authority, is to be carried out by the contractor only. BGL will hand over the application form to the contractor. Amount for Application fees, Demand note or any other statutory fees will be paid by BGL. Further, all the liasioning with any authority such as GHMC / HMWSSB / NHAI / HMDA, R&B, local officials, traffic police, police, ESCOM, BSNL, Railways, RTO etc. and any other utility companies / agencies such as OFC operators etc. during the execution of pipeline laying, are in the scope of the contractor.</p> <p>The scope also includes liasioning with Society / individual land owners, road owning authorities for smooth execution of pipeline laying. Repairing/replacement of all damaged utilities if any, and payment of any compensation (if claimed by owner/other utility agencies/ authorities) is in scope of the Contractor.</p>		Mtrs		841		0
ML-5	PERMANENT MARKERS						

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	Supply, fabrication and installation of all types of permanent markers along the route including all associated civil works such as excavation in all types of soil, construction in all types of soil, construction of pedestals and grouting with concrete, clearing, supply and application of approved colour and quality of primer and paint, stencil letter cutting for numbers, direction, change etc., restoration of area to original condition and performing all works as per drawing, specification and instruction of engineer-in-charge.							
5.1	Pipeline RCC boundary / route marker as per drawing		Nos.			30		0
5.2	Pipeline warning markers with post & foundations		Nos.			4		0
5.3	Pipeline direction marker with post & foundations		Nos.			2		0
5.4	Pipeline KM with post & foundations		Nos.			1		0
ML-6	PRE-COMMISSIONING AND ASSISTANCE IN COMMISSIONING OF PIPELINE SYSTEM							
	Swabbing, vacuum drying, purging with nitrogen of the complete pipeline network and the associated facilities being installed to the specified acceptance criteria, carrying out pre-commissioning works, providing assistance during the complete duration of commissioning operations for entire pipeline network system including supply of all equipment, man-power, consumables (including pigs & nitrogen required for purging with maintaining nitrogen column of minimum							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	10% of pipeline geometric volume) materials for all temporary works and performing all associated works, complete as per the relevant specifications, other provisions of Contract document and instructions of Engineer-in-charge.							
6.1	For 6" NB Line		Mtrs			1351		0
ML-7	IDLE TIME PRESERVATION OF PIPELINE							
	Preservation of complete pipeline and associated facilities forming part of the pipeline as per Bid document and its maintenance including supply of all consumables, all equipment, man-power, etc. complete as per the requirements of specifications, other provisions of Contract document and instructions of Engineer-in-charge.							
	Note : Owner reserves the right to exercise either or none of the rates below.							
7.1	By filling and pressurizing with nitrogen to a pressure of 2 bar(g) for a period of one month.							
i)	For 6" NB Line		Mtrs			1351		0
7.2	For every additional period of one month or proportionately							
i)	For 6" NB Line		Mtrs			1351		0
ML-8	LONG RADIUS BENDS							

Signature & Seal of Bidder



Bhagyanagar Gas Ltd.

**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	Supply of Long Radius Bends (R = 3D) for 6" dia.pipe, (thk. 6.4 mm) as per specification enclosed in Tender Document. (Installation of bends is included in the pipeline laying and measured along with the pipeline)							
8.1	22.5 ° and lower MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.		Nos.			1		0
8.2	23 ° - 45°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.		Nos.			1		0
8.3	46° - 60°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.		Nos.			1		0
8.4	61° - 90°, MSS-SP-75, Gr. WPHY-42, 6.4 mm thk.		Nos.			2		0
ML-9	VALVE ERECTION							
	Handling including lifting and transportation from COMPANY'S warehouse to CONTRACTOR'S Stores and/or work site and installation of all types of valves, including assembly of valve accessories, (if any) by bolting, threading or welding, supply and insertion of gaskets, nuts & bolts, nipples, etc. at all elevations of pipe sleepers, supports or overhead on racks, equipments nozzle, skid & painting etc. supply of all consumables, manpower, equipment, etc. for completion of all works as per scope of work and as per drawings, specifications and instructions of Engineer-in-charge including servicing/ cleaning of valve wherever required.							
9.1	Erection of all types of valves in valve pits on underground pipe lines							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

i)	6"NB		Nos.			1		0
	Note: 2" & Below Valves shall be in contractors scope of supply.							
ML-10	FLANGES							
	Weld Neck (B-16.5, A105(Charpy), 125 AARH, RF, 300#) raised face flanges along with fasteners (A193, Gr. B7, B 18.2 for black studs & A194 Gr. 2H B 18.for black nuts) & Sp.WND SS grafill gaskets (B16.20 & B16.5)							
10.1	(End Thickness to match pipe thickness)							
i)	6"NB		Nos.			1		0
ML-11	Elbow							
	90" Elbow, R=1.5 D (A234 WPB(charpy), B 16.9)							
i)	6" NB		Nos.			2		0
ML-12	Construction of Valve pits for Steel Line							
	Construction of Valve Pits for Steel line as per the enclosed drawing and specification. The item includes supply of all the material including Pre-cast RCC cover, shuttering, reinforcement, labour,curing etc. as per the drgs, specification and instruction of EIC.							
i)	As per drawing with vent lines & horizontal tap off from mainline. Having internal size of 2000mm x1200mm		Nos			1		0

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

ML-17	Supply and installation of PE Isolation Valves							
	Supply of isolation valves (as per data sheet) and installation of valves in the valve pits as per typical drawing and specification enclosed and instructions of Engineer-in-charge. Payment of valve pits shall be paid separately as per SOR item No: 18							
i)	PE Valve 125 / 90mm dia		Nos.			2		0
ML-18	Construction of Valve pits for MDPE line							
	Construction of Valve Pits as per the enclosed drawing and specification. The item includes supply of all the material including Pre-cast RCC cover, shuttering, reinforcement, labour, curing etc as per the drgs ,specification and instruction of EIC.							
i)	Type- having Internal size of Minimum 500x500mm (for 125 mm PE Valve) - RCC type		Nos.			2		0
Total Amount (inclusive of all taxes except GST) in Rs.								0
2-(I)	CATHODIC PROTECTION WORKS							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Sl. No.	Description of Item	HSN/SAC Code	Unit	Size	Rating/ Thk.	Quantity	Unit Rate (all inclusive except GST) in Rs.	Total Amount (all inclusive except GST) in Rs.
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)
					Sch.			(6) x (7)
TCP-1	TEMPORARY CATHODIC PROTECTION SYSTEM							
1.1	Survey, Design, detail engineering of the temporary Cathodic protection system using Mg (Min 3.0 Kg Each)/ Zn galvanic anodes to protect the external surface of 6" dia 3LPE Coated pipeline in the Geographical Area (GA) of Hyderabad against corrosion for a design life of minimum 2 year as per standard specification enclosed with the tender for temporary cathodic protection system, approved design document, data sheets & drawings. Scope shall also include but not limited to the following for completion of jobs:							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

a)	Measurement of soil resistivity along the right of way of the main pipeline & take atleast one soil sample for one pipeline section for its chemical & microbial analysis along the pipeline route as per specification for corrosion survey MEC/TS/05/21/016C.						
b)	Collection of additional data related to cathodic protection along the right of way of pipeline as per standard specifications.						
c)	Design, Detailed Engineering, Preparation of Design Document, Preparation of Test station schedule & Bill of Material as per the corrosion survey & Chemical analysis of Soil / Water samples for Temporary Cathodic Protection system.						
1.1.1	6" Pipeline section from IJ to IJ with varying length and for requisite No. of sections		Mtrs		1351		0
	Note: Design shall be carried out from Insulation Joint to Insulation Joint. Each stretch of length will be vary from location to location						
1.2	Manufacturing, Inspection/FAT (Factory acceptance test), supply, Packing, transportation to site, storage, installation, testing & commissioning of the temporary Cathodic protection system using Mg (Min 3.0 Kg Each)/ Zn galvanic anodes to protect the external surface of 6" dia , 3LPE Coated pipeline in the Geographical Area (GA) of Hyderabad against corrosion for a design life of minimum 2 year as per standard specification enclosed with the tender for temporary cathodic protection system, approved design document, data sheets & drawings. Scope shall also						

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	include but not limited to the following for completion of jobs:							
2-(I)	CATHODIC PROTECTION WORKS							
a)	Supply, installation, testing & commissioning of Mg/Zn Galvanic anodes including carrying out Thermit welding on main pipeline, supply of clits, cables to connect to anodes as per the standard specification-MEC/TS/05/E9/016A. The weight of the Mg Anode & the total nos. of anodes shall be calculated as per the result of corrosion survey, soil chemical analysis, total weight and current requirement of the pipeline section. However, Min one anode is to be installed at every one KM with test station. The scope of work includes the the following:and also to be carried out as per approved design including supply of all item							
b)	Supply, Installation, Testing & commissioning of Test stations (Big Size & Normal Size) weather proof (IP-55) as per specification & enclosed drawings.							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

c)	Supply, installation, testing & commissioning of one set of spark gap arrester 100 kA (Solid State) across each insulating joint provided at tap-off, SV & various consumer terminals as per scope of work / specification. The un-protected/above ground pipeline shall be earthed through GI earth electrodes with separate earth pit. The resistance of grounding shall be limited to 5 ohms max.							
d)	Supply, installation, testing & commissioning one set of polarization cell (Solid State) with zinc anode at all high tension electrical power transmission line/equipments /railway tractions (all 66 KV & above) crossing or running parallel to the pipeline for grounding purpose as per specification. The rating shall depend upon anticipated fault current & ground bed resistance at the location of installation. However, the rating of polarisation cell (solid state) shall not be less than 3.7 KA @ 30 cycle & number of 20 kg net weight zinc anode shall not be less than two. The resistance to earth of grounding shall be limited to 5 ohms max.							
e)	Supply & installation of Zinc Ribbon Anodes at 4-8 O'clock position in the interval of 2 meter (max.) on carrier pipes where casing pipe is coated and no additional protection for carrier pipe where casing is bare which also includes Zn bentonite filling b/w carrier & casing cased crossings i.e. roads etc as per specification & Scope of work.							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

f)	Bonding in between pipelines running parallel or crossing as required.							
g)	Supply, Laying of HDPE/PVC sheets between the GAS pipeline and the other CP protected foreign pipelines at the crossing locations for providing electrical isolation.							
h)	Earthing of above ground cathodically unprotected pipeline at SV, R/T & D/T etc, as applicable the earth electrode shall be 65 mm dia, 4.5 mm thickness & 3000mm long.							
i)	Supply, installation, testing & commissioning of Electrical resistance Probes (1 No. with 1 no. of ER probe reading Instrument)(if applicable) utilizing the electrical resistance technique shall be provided along the pipeline at marshy areas and at vulnerable locations to monitor the external corrosion activity on the pipeline. Location of external ER probe shall be decided during detail engineering.							
j)	Supply, installation, testing & commissioning of Polarisation coupons (2 Nos.) (if applicable) have one side exposed area of 100 mm x 100 mm with 2 nos. of spare coupons shall be provided along the pipeline at marshy areas and at vulnerable locations to monitor the external corrosion activity on the pipeline as per enclosed standard specification. Location of external Polarisation coupons shall be decided during detail engineering. Magnetic							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	devices for operation of magnetic switch shall be provided.							
k)	Supplying,laying ,testing of 35 ,25,10 ,6 sq.mm, 600/1100 V grade copper cables XLP insulated /PVC sheath of including excavation in soil or rock of minimum 1.2m depth below GL,							
l)	Making cable to pipe jointing by thermit welding/Pin brazing (for charged pipeline) for 35 ,25,10 ,6 sq.mm copper cable including excavation and exposing piping , recoating with epoxy, testing etc.							
m)	Monitoring of the TCP system till commissioning of PCP system & handing over of the pipeline system to BGL.							
n)	All civil/ structural works related to TCP system including supply of bricks, cement & steel etc. required for completion of the system.							
2-I.i	6" Pipeline section from IJ to IJ with varying length and for requisite No. of sections		Mtrs			1351		0
Total Amount (inclusive of all taxes except GST) in Rs.								0

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

3-(I) PIPING & MECHANICAL WORKS								
Sl. No.	Description of Item	HSN/SAC Code	Unit	Size	Rating/ Thk.	Quantity	Unit Rate (all inclusive except GST) in Rs.	Total Amount (all inclusive except GST) in Rs.
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)
					Sch.			(6) x (7)
PP-1	PIPING (ABOVEGROUND)							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

-	<p>Transportation including loading, unloading & handling of all piping items (6", 4" NB pipes & valves are free issue items) from Owner's and/ or Contractor's storage point to work site/ workshop as applicable, complete work of fabrication, erection, painting, testing of pipes, flanges and fittings, insulation joints and making ready for further Commissioning / Start-up of carbon steel piping of all sizes and ratings including supply of all consumables, equipment, manpower and other resources and execution of, but not limited to, the following works in accordance with relevant specifications & scope of work, drawings, specification and instructions of Engineer-in-charge and as per all provisions of the CONTRACT DOCUMENT. Note : Valve erection shall be paid through separate SOR</p>						
-	<p>Fabrication including cutting, edge preparation, inclusive of grinding the edges of pipes, fittings, flanges etc. to match with the matching edges of uneven/different thickness wherever required, welding, attachment of all pipe fittings like elbows, tees, reducers. Supply of nipples, couplings, caps, plugs, gasket, stud bolts, nuts, U Clamps etc. as required for completion of job.</p>						

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

-	Checking, cleaning, aligning, bending, cutting and bevelling (as required) of pipes for welding and field adjustments including pipe fittings, welding, carrying out non-destructive testing of welds as required including 100% radiography by Gamma-ray and providing all requisite equipment, labour, supervision, materials, films, consumables, all facilities and personnel to process, develop, examine and interpret radiographs and other tests as required, carrying out repairs of weld joints found defective by Engineer-in-Charge, carrying out re-radiography / x ray and other tests as required on repaired joints.							
-	Fixing/ Installation of weldolets, sockolets, flanges, vent and drain point connection etc., including providing stub-in connections, fabricated fittings and reinforcement pads etc., as required.							
-	Erection including prior cleaning, lifting, placing on pipe sleepers and supports, overhead on racks, skids and at all elevations including installation and carrying out connected activities for all types of valves including supply and fixing of gaskets, studs/ bolts, nuts wherever required for all sizes, levelling, aligning, joining of flanges, blind flanges, connecting with equipment, nozzles, strainers, tie-in with existing piping/facilities, etc. tapping for inline instruments like pressure gauges, thermowells, sample connection, etc.							
-	Preparation of final bill of material based on piping GADs.							
-	Preparation of isometric and fabrication drawings.							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

-	Carrying out Non-destructive testing as required except items mentioned in sl. no. 5 of SOR.							
-	Surface preparation before application of primer by means of sand blasting including supply of approved quality of dry abrasive, manpower, machineries, tools & tackles to achieve required roughness as per specification and as per instruction of Engineer-in-charge.							
-	Painting of entire system (including aboveground all pipes fittings, flanges and accessories) as per specification MEC/S/05/21/07 including supply of approved paints and primers, application of primer and paints, identification lettering/ numbering, colour coding, etc. as specified including rub down & touch up of shop primer or scrapping of shop primer wherever required by COMPANY and providing scaffolding for all heights etc.							
-	Cleaning and flushing by water/ compressed air, testing of the systems including hydrostatic, pneumatic and any other type of testing as specified, draining, drying by compressed air/other methods approved by COMPANY.							
-	Precommissioning & making operational all piping system and equipments and provide all necessary assistance in term of supply of man-power, equipment, tools and tackles required amount of nitrogen for purging of entire terminal piping system including equipments etc. to the company during commissioning activities.							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

-	Clean-up and restoration of site, preparation of as built drawings, documents and project records; transportation of surplus free issue material to Owner's designated plac(s); completing all works in all respects as per the AFC drawing, specifications, standards and other provisions of Contract and instruction of Engineer-in-charge.							
-	Completion of all such work in all respects as per scope of work and as per drawings, specifications and instructions of the Engineer-In-Charge and keeping the system ready in all respects for further commissioning and start up.							
-	Hook-up works including making provision for hooking up and carrying out shutdown activities at terminals if necessary.							
1.1	Complete Carbon Steel Piping Work with painting including all fittings, flanges and supply of all required gaskets, studs bolts & nuts etc. as described under item 1.0 above							
1.1.1	Pipes of different grades and thickness		Mtrs	4" NB		1		0
PP-2	<u>SUPPLY & ERECTION OF ASSORTED PIPE, FITTINGS AND FLANGES AND INSULATION JOINTS</u>							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

	Complete work of supply of pipes, fittings and flanges , insulation joints including all taxes, duties, transportation and inspection charges but not limited to, the following items in accordance with relevant specifications indicated in clause of SCC & scope of work indicated in SCC, drawings, specification and instructions of Engineer-in-charge and as per							
-	Handling including lifting, transportation from Contractor Stores to CONTRACTOR's workshop for fabrication and/ or to work site for field fabrication and erection for all piping items							
2.1	CARBON AND STEEL PIPES							
2.1.1	CS Pipe Sch.80 API 5L, Gr. B, PSL-2, Seamless, BE / ASTM A106, Gr. B (Charpy), Seamless, BE		Mtrs	2" NB	S80	1		0
2.1.6			Mtrs	3/4" NB	S160	1		0
2.2	FLANGES							
	Weld Neck (B-16.5, A105(Charpy), 125 AARH, RF)							
2.2.1	(End Thickness to match pipe thickness)		Nos.	6"	300#	1		0
2.2.3			Nos.	2"	300#	1		0
2.2.5	Socket Welded (B-16.5, A105, 125 AARH, SW end to B16.11)		Nos.	3/4"	300#	4		0

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

2.3	ELBOW							
2.3.2	90° Elbow (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW		Nos.	4"	S40	3		0
2.4	TEE							
2.4.3	Equal Tee (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW		Nos.	6"	S40	1		0
2.4.4	Unequal Tee (A234, Gr. WPB (Charpy), B-16.9, 1.5D), BW		Nos.	4" x 2"	S40 x XS			
2.5	REDUCER							
2.5.2	Concentric Reducer (A234, Gr. WPB (Charpy), B-16.9)		Nos.	6" x 4"	S40	1		0
2.5.3			Nos.	4" x 2"	S40	1		0
2.6	SOCKOLET (A105, SW)							
2.6.1			Nos.	4" x 3/4"	3000#	1		0
2.8	INSULATING JOINTS (As per Standard and Specification Data Sheets enclosed)							

Signature & Seal of Bidder



Bhagyanagar Gas Ltd.

**LAYING OF UNDERGROUND STEEL
PIPELINE AT TOLICHOWKI NALLAH AND
PROVISION OF PCC PROTECTION DUE TO
SHALLOW DEPTH AND STEEL PIPELINE TO
CONNECT THE M/S. SAIPRIYA FILLING
STATION, SHAPUR
BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

2.8.2			Nos.	4"	300#	1		0
	<u>Note:</u> A) All butt welded fittings end shall generally match with connecting pipe wall thickness however in case of misalignment Contractor shall have to do end preparation without any extra cost.							
	B) All coupling, nipples etc. as required shall be supplied by contractor but no separate payments shall be made as it is covered under erection rate.							
PP-3	SUPPLY OF VALVES & INSTALLATION							
	supply and installation of valves including all taxes,duties,transportation and inspection charges in accordance with relevant Specifications & relevant Data Sheets indicated in scope of work indicated in SCC, drawings, specification and instructions of EIC and as per all provisions of the CONTRACT DOCUMENT and Installation							
3.2	Ball Valves							
3.2.6	SW, FB		Nos.	¾"	800#	8		0
PP-4	ERECTION and installation OF VALVES							

Signature & Seal of Bidder



**LAYING OF UNDERGROUND STEEL
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BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Handling including lifting and transportation from COMPANY's warehouse to CONTRACTOR'S Stores and/or work site and installation of all types of valves including assembly of valve accessories, (if any) by bolting, threading or welding, supply and insertion of gaskets, nuts & bolts, nipples, etc. at all elevations of pipe sleepers, supports or overhead on racks, equipments nozzle, skid & painting etc. supply of all consumables, manpower, equipment, etc. for completion of all works as per scope of work and as per drawings, specifications and instructions of Engineer-in-charge including servicing/ cleaning of valve wherever required. For 6" NB valves are under free issue items.

4.1	Butt welded Valves (Full Bore/ Reduced Bore)							
4.1.1	Ball valves BW, FB/ RB		Nos.	6"	300#	1		0
4.1.2	Ball valves BW, FB/RB			4"	300#	1		0
Total Amount (inclusive of all taxes except GST) in Rs.								0.00
3-(III)	STRUCTURAL WORKS							

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BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Sl. No.	Description of Item	HSN/SAC Code	UOM	Size	Rating/ Thk.	Quantity	Unit Rate (all inclusive except GST) in Rs.	Total Amount (all inclusive except GST) in Rs.
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)
					Sch.			(6) x (7)
ST-1	Steel structure Fabrication & Erection							
	Supply ,fabrication and erection of all types of pipes supports like clamps saddle,guide stops,cradles,turn buckles,anchors,T- post,stockade/trestle and pipe bridge for over head piping ,approach ladders and platform,crossover,cable tray supports,etc. including painting as per painting specification(Bolts,nuts,washer,U-clamps etc. shall be supplied by the contractor within the rates quoted.These items will not be measured and paid seperately).The work is to be completed in all respect as per drawings and technical specification and direction of the Engineer-in-Charge		KG			20		0

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BID DOCUMENT NO. BGL/704/2025-26**

Vol II of
II

Total Amount (inclusive of all taxes except GST) in Rs.								0
3-(V)	INSTRUMENTATION WORKS							
Sl. No.	Description of Item	HSN/SAC Code	UOM	Size	Rating/ Thk.	Quantity	Unit Rate (all inclusive except GST) in Rs.	Total Amount (all inclusive except GST) in Rs.
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)
					Sch.			(6) x (7)
IN-1	Supply, Calibration and Installation of instrumentation items listed below							

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Vol II of
II

1.1	Pressure Gauges, Pressure Rating 300# Pressure Range 0 - 50 Kg/cm2 (Includes supply of two isolation valves per each gauge to provide double isolation)		Nos.			2		0
1.2	Temperature Gauges [Range 0 - 100°C]		Nos.			1		0
Total Amount (inclusive of all taxes except GST) in Rs.								0
Sub Total Amount (inclusive of all taxes except GST) in Rs.								0.00
GST %								
GST Amount (Rs.)								0
Sub Total Amount (all inclusive except GST) in Rs.								0.00
Amount in Word:								

Signature & Seal of Bidder