

LETTER OF ACCEPTANCE

To
NAMRATA ENGINEERING
AMRAKUNJ SOCIETY
3/B, NILKANTHA APARTMENT
AMRAKUNJ SOCIETY
GHOD-DOD ROAD
SURAT-395001
Gujarat ,India
Tele No : 0261 2650702

LOA No. : GAIL/HZR/110746/5300038652/FL-59C/22-23
Dated : 18.04.2023

RFQ No. & Date : 3300096581 Dt. 14.03.2023
Your offer/Qtn.No.: NIL
Qtn. Dt. : 01.04.2023
E Tender No.: NIL
Vendor Type : MSE-MICRO-OT
Vendor GSTN No : 24AAVPP6580B1ZE

Kind Attn : Mahesh Patel

Name of Work : ARC for ROU Maintenance & Other Associated facilities of Pipeline systems under Hazira Maintenance base.

Dear Sir/Madam

With reference to your Offer against our RFQ and all subsequent correspondences (if any) till date and in continuation of our Fax/Letter of Intent (if any) we are pleased to award the subject works highlighting the following salient features:

Scope of Work : Scope of work under this contract shall be as detailed in enclosed document.

Price Basis:

ITEM	1	PART-A SERVICES FOR PROVIDING MANPOWER	INR	3,253,827.24
ITEM	2	PART-B ARC P/L ROU MAINT	INR	14,586,688.00

Abnormally High Rated Items :

No AHR Items

Duration of Contract/Completion Schedule :

- The duration of contract shall be 02 Years from the date of issue of LOA dt.19.04.2023.

Performance Bank Guarantee:

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1) You are required to furnish the Security Deposit of value equivalent to 3% of Annualized contract value (excluding taxes & duties) i.e. Rs. 2,26,786.00 through SFMS mode for the due and faithful performance of the work within 30 days of the date of award by way of Demand Draft / Bankers Cheque or Bank Guarantee

issued by Scheduled Bank having a net worth of Rs. 100 Crores in acceptable format provided by GAIL. The SD shall be valid beyond 3 months from DLP period if any as per SCC.

2) Validity: The Performance Bank Guarantee shall remain valid upto 90 days beyond the expiry of Defect-Liability-Period (DLP) i.e. upto 18.01.2026.

Contract Agreement:

You shall execute contract agreement, as per the proforma of Agreement provided in General Conditions of Contract of Bid Document, within 15 days from the receipt of this Letter of Acceptance. The same shall be executed on a Non-Judicial stamp paper of appropriate value and the cost of stamp paper shall be borne by you.

Payment Terms:

As per SSC clause no.6-

The Vendor shall submit running bill on monthly basis, in Online Anjani portal of GAIL. The necessary work flow in Anjani such as submission of Measurement of Bill, Abstract and Memorandum of Payment has to be duly followed by the vendor in this regard for timely processing of payment.

The payment will be made by E-banking within 15 days on receipt of the bill, with applicable TDS deduction. The contractor shall submit their bank account details and consent for e-payment facility. No additional payment shall be made to the contractor other than the rate of the SOR.

Paying Authority:

HOD

Finance & Accounts Department,
GAIL, Hazira

PAN Particulars:

GAIL (India) Ltd PAN No. AAACG1209J

"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".

GSTN Details :

Please note that our state/plant wise GSTN details as below for invoicing and other purpose.

NG Comp Stn - Hazira (3011) 24AAACG1209J1Z2

GAIL is in the process of implementing Vendor Invoice Management System for processing of invoices w.e.f. 01.04.2023. The solution is being configured to handle both physical invoices as well as digitally signed invoices. This system is expected to highly optimize the invoice management at GAIL and expedite their processing in future. The detailed methodology for submission of invoices shall be informed separately.

As a pre-requisite to the system, it is important to mention the details of Purchase Order/ Letter of Acceptance number on the face of invoice. Accordingly you are requested to ensure Purchase Order/ Letter of Acceptance number is clearly mentioned on the Invoice. Further Invoices should be system generated and no handwritten invoices shall be eligible for OCR conversion on VIM portal.

Your Bank Details :

Please note that details of your bank account in our system are as under. You are requested to verify the same and intimate discrepancies, if any

Your Bank Details :

Please note that details of your bank account in our system are as under. You are requested to verify the same and intimate discrepancies, if any

Account No. - 31485808389

Bank Name - sbi

IFSC Code - SBIN0000577

Price Reduction Schedule:

1. In case of delay in completion of awarded works & services beyond contractual completion schedule, unless such delays are due to FORCE MAJEURE as specified in Para 2.21 of GCC, the TOTAL CONTRACT PRICE shall be reduced by ½% of the TOTAL CONTRACT PRICE (excluding taxes and duties) per complete week of delay or part thereof subject to a maximum of 5% of the TOTAL CONTRACT PRICE (excluding taxes and duties), by way of reduction in price for delay and not as penalty.

2. Other Provisions of 'PRICE REDUCTION SCHEDULE' as specified in Para 2.22 of 'GENERAL CONDITIONS OF CONTRACT' (GCC) and else where in the bidding document including 'SPECIAL CONDITIONS OF CONTRACT' (SCC), if any, may also be referred in this regard.

Defect Liability Period:

Defects liability period shall be SIX (06) months from the date of completion of contract works.

Contract Document:

The following shall constitute the contract document:

- i) This Letter of Acceptance alongwith its enclosures.
- ii) Tender no. GAIL/HZR/C&P/110746/FL-59C/22-23 (NIC tender no. 2023_GAIL_148793_1) dated 14.03.2023.
- iii) Agreement on non-judicial stamp paper.

FOI Reference/Regularization:

Engineer-In-Charge:

Shri Prashant Dwivedi, Sr.Manager (Pipeline), shall be the Engineer In charge for this Work. You may please contact the EIC for further instructions regarding execution of the job.

Other Contractual Stipulations:

1. SCOPE OF WORK:

The Scope of work under this contract shall be as detailed in our tender no. GAIL/HZR/C&P/110746/FL-59C/22-23 (NIC tender no. 2023_GAIL_148793_1) dated 14.03.2023 and this Letter-of-Acceptance (LOA), alongwith its enclosures.

2. TOTAL CONTRACT VALUE:

- The total contract value is Rs. 1,78,40,515.24 (Rupees One Crore Seventy-Eight Lakhs Forty Thousand Five Hundred Fifteen and Twenty-Four Paise only), as detailed in the Schedule of Rates, inclusive of Levies, Taxes, Duties, IGST@18% and all other charges necessary for carrying out the job. The applicable taxes shall be clearly indicated in the invoice.

- No escalation, except statutory variation in taxes (as per RFQ), will be entertained during the complete

contract period.

3. TERMINATION OF CONTRACT:

The contract can be terminated with applicable notice-period, for the reasons specified in the tender Documents.

Terms of delivery:

The completion schedule is binding and essential and consequently, no delay is allowed without the written approval of GAIL. Any request concerning delay will be void unless accepted by GAIL through a modification to the CONTRACT. Completion schedule as agreed & accepted as a part of contract shall include time for mobilization in all respect, submission of drawings for approval, incorporation of comments, if any, and final approval of drawing by GAIL, execution/erection, testing, if any, commissioning, if any and handing over of contracted supply, works & services, complete in all respect as per provisions of contract. In the event of delay in delivery, beyond contractual completion date, Price Reduction Schedule / Liquidated Damages as stipulated in this bidding document shall apply.

General Conditions of Contract:

Shall be fully applicable as per General Conditions of Contract (GCC-Services) of our Bid Documents. However, if the condition(s) deviate elsewhere in this order, then the condition(s) stand modified accordingly.

Special Conditions of Contract:

"Scope of Work" and "Special Conditions of Contract" shall be applicable, as per tender document.

Vendor Code: 101033185
NAMRATA ENGINEERING

LOA No. : GAIL/HZR/110746/5300038652/FL-59C/22-23
LOA Date : 18.04.2023

Enclosures :

This order is being issued in triplicate. Two copies of the order duly signed, stamped and dated on each page, may be returned within 3 days from date of receipt of the order to the undersigned..

For & on behalf of
GAIL (India) Ltd.

(Authorized Signatory)

NAME :
DESIGNATION :

CONTRACTOR'S ACCEPTANCE:

PLACE : SIGNATURE :

DATE :
NAME :
DESIGNATION :
SEAL :

NOTE: Each page of this order including its annexure should be signed and stamped by the contractor before returning to GAIL (India) Ltd..

SCHEDULE OF RATES

Item : 1 - PART-A SERVICES FOR PROVIDING MANPOWER
Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
10	SERVICES FOR PROVIDING MANPOWER	24	MON	114,895.03	2,757,480.72	

ITEM NO. 10: SERVICES FOR PROVIDING MANPOWER FOR ROU MAINTNENCE ASISTANCE (02-SKILLED, 01-SEMI-SKILLED AND 01 UNSKILLED) AS PER SCC OF TENDER.

Contractor has to provide fulltime technician support throughout the contract period by deploying Specified Minimum Resource as per below mentioned details.

Fixed / full time minimum nos. of man-power required for maintenance in Pipeline ROU/ Maintenance of Cross Country Pipe Line is as under:

1. Supervisor cum Mechanical Technician - 1 no. (Skilled)
2. Technician Electrical - 01 Nos (Skilled)
3. Technician Instrument - 01 No. (Semi-Skilled)
4. Helper - 01 No. (Unskilled)

Minimum qualification of technician should be ITI.

Wage components are mentioned in SCC of tender document.

Note: To execute the various SOR items as mentioned in Part B of SOR, the human resource / manpower / labours etc. other than full time technicians as mentioned above, shall have to be arranged by the contractor time to time. The remuneration to all such human resources mentioned above must be in compliance with prevailing labour law / rule etc.

Rs 1,77,625 has been kept for Overtime charges as per Labour Law.

Work Order Item 00001 Basic Item Value : INR 2,757,480.72
(RUPEE TWO MILLION SEVEN HUNDRED FIFTY-SEVEN THOUSAND FOUR HUNDRED EIGHTY AND PAISE SEVENTY-TWO ONLY):

Item Specific Conditions :
Total Tax = 496,346.52
18 % GST (SGST 9 % + CGST 9 %)-Non Cenvatable-(SC)
Total item value including taxes & duties : INR 3,253,827.24

Item : 2 - PART-B ARC P/L ROU MAINT
Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
10	SUPPLY AND INSTALLATION OF KM MARKERS	30	EA	7,500.00	225,000.00	

Scope includes supply of all material & manpower for fabrication, welding, painting, transportation & installation (including excavation) of marker at site. Rate quoted against this SOR shall only be paid after successful installation. No additional payment shall be released for execution of this SOR.

10.1 Fabrication of KM Markers

Fabrication of KM markers as shown in drawing attached as Annexure-1

Item : 2 - PART-B ARC P/L ROU MAINT
Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
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10.2 Painting & Lettering of KM Markers

Painting & lettering of KM markers shall be as shown in drawing attached as Annexure-5 & painting scheme as mentioned in Technical Specification & Scope of work of tender document.

10.3 Installation/Grouting of KM Marker

Installation of marker shall be done as shown in drawing attached as Annexure-1.

10.4 Excavation of Foundation

Excavation of foundation for markers shall be done as per drawing attached as Annexure-1).

10.5 Transportation & Fixing of KM Markers: Transportation & Installation of markers to site anywhere along the ROU of pipe is in scope of contractor. Installation should be as per specification mentioned in Annexure-1. Marker should be installed at a distance of one meter on either side of pipeline. Contractor has to first locate the pipeline at the location where marker is to be installed. Pipe locator shall not be provided by GAIL and same is in scope of contractor. GAIL shall provide GPS coordinate of the pipeline where marker is to be installed. If upon verification marker is found installed more than one meter away from pipeline, then the contractor has to rectify the same by reinstalling it at a distance of 1 meter. No payment of re-allocation shall be made by GAIL. Any Liaising with the local farmer for execution of this SOR is in scope of contractor.

20	SUPPLY AND INSTALL OF BOUNDARY PILLAR	500	EA	1,550.00	775,000.00	
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Scope includes supply of all material & manpower for fabrication, casting, painting, transportation & installation (including excavation) of boundary pillars. Rate quoted against this SOR shall only be paid after successful installation. No additional payment shall be released for execution of this SOR.

20.1 Casting of Boundary Pillars/Markers

Providing & laying in position cement concrete of specified grade including the cost of material, cent ring & shuttering - 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size). Casting of Boundary Pillars as per drawing attached as Annexure-IV. All material for pillar fabrication is in scope of contractor.

20.2 Installation/Grouting of Boundary Pillars/Marker

Installation of markers shall be as per drawing attached as Annexure-4. Location of pipeline Chainage shall be provided by EIC. Providing & laying in position cement concrete of specified grade including the cost of cementing & shuttering etc. - all work up to plinth level 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).

20.3 Reinforcement for Boundary Pillars

Fabrication of Boundary Pillars shall be as per drawing (Annexure-4). Reinforcement for RCC work including cost of material, straightening, cutting, bending, placing in position and binding all in complete cold.

20.4 Painting & Lettering

Painting & lettering of Boundary Pillars / ROU markers shall be as per drawings (Annexure-4) by using Golden Yellow Paint of Asian/Burger/Nerolec make including cost of material. The markers should be painted and lettered with min. two or more coat of specified colour paint.

20.5 Excavation of Foundation for Boundary Pillars/ROU Markers

Excavation of foundation for markers shall be as per drawing (Annexure-4). Earth work in excavation in foundation trenches or drains (not exceeding 1.5m in which or 10 sq m on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil & rocks and disposal of surplus excavated soil & rocks as directed, within a lead of 50m, with all kind of soils & rocks.

20.6 Transportation, Stringing & Fixing of Boundary Pillar

Transportation & Installation of Boundary pillar to site anywhere along the ROU of pipe is in scope of contractor. Installation should be as per specification mentioned in Annexure-4. Marker should be installed at the edge of pipeline ROW as per direction of EIC. Contractor has to first locate the pipeline at the location where marker is to be installed. Pipe locator shall not be provided by GAIL and same is in scope of contractor. Any Liaising with the local farmer for execution of this SOR is in scope of contractor.

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Item : 2 - PART-B ARC P/L ROU MAINT
Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
30	SUPPLY AND INSTALL OF WARNING MARKER	50	EA	7,000.00	350,000.00	

Scope includes supply of all material & manpower for fabrication, welding, painting, transportation & installation (including excavation) of marker at site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful installation. No additional payment shall be released for execution of this SOR.

16.1 Fabrication of Warning Markers

Fabrication of markers as shown in drawing attached as Annexure-2.

16.2 Painting & Lettering of Warning Markers

Painting & lettering of markers shall be as shown in drawing attached as Annexure-7 & painting scheme as mentioned in Technical Specification & Scope of work of tender document.

16.3 Installation/Grouting of Warning Marker

Installation of marker shall be done as shown in drawing attached as Annexure-2.

16.4 Excavation of Foundation

Excavation of foundation for markers shall be done as per drawing attached as Annexure-2.

16.5 Transportation & Fixing of Warning Markers: Transportation & Installation of markers to site anywhere along the ROU of pipe is in scope of contractor is in scope of contractor. Installation should be as per specification mentioned in Annexure-2. Marker should be installed at a distance of one meter on either side of pipeline. Contractor has to first locate the pipeline at the location where marker is to be installed. Pipe locator shall not be provided by GAIL and same is in scope of contractor. GAIL shall provide GPS coordinate of the pipeline where marker is to be installed. If upon verification marker is found installed more than one meter away from pipeline then contractor has to rectify the same by reinstalling it at a distance of 1 meter. No payment of re-allocation shall be made by GAIL. Any Liaising with the local farmer for execution of this SOR is in scope of contractor.

40	SUPPLY AND INSTALL OF DIRECTION MARKER	30	EA	5,500.00	165,000.00	
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Scope includes supply of all material & manpower for fabrication, welding, painting, transportation & installation (including excavation) of marker at site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful installation. No additional payment shall be released for execution of this SOR.

40.1 Fabrication of Warning Markers

Fabrication of markers as shown in drawing attached as Annexure-3.

40.2 Painting & Lettering of Warning Markers

Painting & lettering of markers shall be as shown in drawing attached as Annexure-6 & painting scheme as mentioned in Technical Specification & Scope of work of tender document.

40.3 Installation/Grouting of Warning Marker

Installation of marker shall be done as shown in drawing attached as Annexure-3.

40.4 Excavation of Foundation

Excavation of foundation for markers shall be done as per drawing attached as Annexure-3.

40.5 Transportation & Fixing of Warning Markers: Transportation & Installation of markers to site anywhere along the ROU of pipe is in scope of contractor is in scope of contractor. Installation should be as per specification mentioned in Annexure-3. Marker should be installed at a distance of one meter on either side of pipeline. Contractor has to first locate the pipeline at the location where marker is to be installed. Pipe locator shall not be provided by GAIL and same is in scope of contractor. GAIL shall provide GPS coordinate of the pipeline where marker is to be installed where marker is to be installed. If upon verification marker is found installed more than one meter away from pipeline, then contractor has to rectify the same by reinstalling it at a distance of 1 meter. No payment of re-allocation shall be made by GAIL. Any Liaising with the local farmer for execution of this SOR is in scope of contractor.

50	PAINTING AND LETTERING OF	300	EA	1,800.00	540,000.00	
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Item : 2 - PART-B ARC P/L ROU MAINT
 Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
	MARKER & BOARD					

PAINTING AND LETTERING OF EXISTING MARKERS & BOARDS

Scope includes removal of complete old paint & rust of existing markers manually or by using of rust free paint remover or using wire brush/emery paper. After surface preparation, one coat of approved brand primer / red oxide to be applied prior to painting & lettering of the markers as per drawings and technical specification by using synthetic enamel. Supply of Paint of Asian/Berger/Nerolac or equivalent make including cost of material, manpower & transportation etc. is in scope of contractor. Minimum two coat of paint is to be applied on marker so that no dark patches should be visible. Dimensions of markers to be painted are attached as mentioned in above SOR#s & scheme of painting is attached as "Marker Painting specs". Painting scheme to be followed as mentioned in Technical Specification & Scope of work of tender document. Supply of all material & manpower for painting & transportation to the site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

60	PAINTING OF ABOVE GROUND PIPELINE	2,000	M2	200.00	400,000.00	
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PAINTING OF ABOVE GROUND PIPELINE & OTHER STRUCTURES

Scope includes painting of above ground pipeline at RR/SV's. One coat of approved brand or Epoxy Zinc Phosphate Primer (P-6) to be applied after surface preparation prior to painting of High Build Epoxy Finish Coating Paint or equivalent paint of Asian/Burger/Nerolac or equivalent make. Minimum three coat of paint is to be applied on pipeline so that no dark patches should be visible. DFT (Dry film thickness) shall have to be established for both primer and paint. DFT for primer is 50 microns, DFT for 1st coat of paint is 65 microns, DFT of 2nd & 3rd coat of paint is 30 microns each. Supply of all material & manpower for painting & transportation to the site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

70	PAINTING OF CHAIN LINK FENCING, LIGHTING	50	M2	10.00	500.00	
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PAINTING OF CHAIN LINK FENCING, LIGHTING POLES PAINTING & OTHER STEEL STRUCTURES OF SV/IP

Scope includes painting of chain link fencing including lighting poles and other steel structures at SV/IP stations. Painting is to be done after surface preparation, one coat of approved brand primer/red oxide to be applied prior to painting of Paint of Asian/Burger/Nerolac make. Aluminium paint is to be applied in case on chain-link fencing and electricity poles. Supply of all material & manpower for painting & transportation to the site is in scope of contractor. Minimum three coat of paint is to be applied so that no dark patches should be visible. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

80	BACK FILLING OF EARTH / SOIL ON PIPELINE	1,000.000	M3	150.00	150,000.00	
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BACK FILLING OF EARTH / SOIL ON PIPELINE ROU

Scope includes supply of good quality soil from outside of ROU or from any other location free from stones, rocks etc. and same is to be brought and dumped on washout/exposure/soil eroded site within the pipeline ROU area as per the direction of the EIC. Supply & transportation of soil to the site and levelling is in scope of contractor. All machineries, equipment, manpower etc. required for this job is in the scope of contractor. Any Liaising with the local farmer for execution of this SOR is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer for execution of this SOR is in scope of contractor.

90	PROVIDING SAND-CEMENT FILLED	4,000	EA	120.00	480,000.00	
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Item : 2 - PART-B ARC P/L ROU MAINT
 Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
	GUNNY BAGS					

PROVIDING SAND-CEMENT FILLED GUNNY BAGS

Scope includes supply and installation of Gunny bags filled with Cement - Sand in the ratio 1:4. Sand cement should be properly mixed and gunny bags should be stitched and stacked on the Pipeline affected area as per direction of EIC. Supply, preparation & installation of sand cement bags along with transportation to the site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer for execution of this SOR is in scope of contractor.

100	JUNGLE CUTTING/REMOVING OF TREES/PLANTS/	2,000	M2	1.00	2,000.00	
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JUNGLE CUTTING/REMOVING OF TREES/PLANTS/HERBS

Scope includes cutting/removing of jungle trees and plants from pipeline ROU up to roots. Manpower & tools for cutting of jungle along with transportation to the site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

110	BRICK WORK	20.000	M3	5,500.00	110,000.00	
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BRICK WORK

Scope includes brick work (construction) including plaster and excavation work. Supply of brick (Class-I/II), sand, cement and labour along with scaffolding, all tools, tackles consumables and excavation is in scope of contractor. Proportion for Cement mortar 1:4 (1 cement: 4 local). Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

120	STONE PITCHING	50	M2	100.00	5,000.00	
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STONE PITCHING

Scope includes providing stone pitching of 200 mm size for side slopes of rivers/canals/ROW and laid with joint in Cement mortar having ratio of Cement 1 and sand 6. All material and manpower along with transportation to the site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

130	PROVIDING AND LAYING IN PCC	60.000	M3	8,300.00	498,000.00	
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PROVIDING AND LAYING IN POSITION CEMENT CONCRETE

Scope includes providing and laying in position cement concrete in portion 1:2:4 (1 cement: 2 locally available coarse sand: 4 graded stone aggregate 20 MM nominal size) for making path way or for covering on pipe line as per direction of EIC. All material and manpower along with transportation to the site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

140	CONCRETE COATING	20	M2	100.00	2,000.00	
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CONCRETE COATING

Scope includes coating of Pipeline with in-position cement concrete (50 MM thickness) in portion 1:1.5:3 (1 cement: 1.5 locally available coarse sand: 3 graded stone aggregate 5 MM nominal size) including wire mesh for covering exposed pipeline as per direction of EIC. All material and manpower along with transportation to the site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

150	SUPPLY & FIXING OF HUME PIPES	10	EA	1,000.00	10,000.00	
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Item : 2 - PART-B ARC P/L ROU MAINT
Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
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SUPPLY & FIXING OF HUME PIPES

Scope include supply & installation of Hume pipes of Size 300 mm dia of standard length (2.5 m) and MP-2 class including of all type of labour work (including site levelling & excavation work) & material. Transportation of material & manpower to the site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful installation of Hume pipes. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

160	PAINTING JOBS AT MANUAL TEST STATION	80	EA	100.00	8,000.00	
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PAINTING JOBS AT MANUAL TEST STATION INCLUDING LETTERING

Applying priming coat of ready mixed red oxide primer of approved brand after removing rust and oil bound dust etc. by scrapping, sand papering and preparing the surface smooth including necessary repairs of scratches and repainting with ready mixed paint of approved brand (2 coats) and manufacturer (Asian/Nerolac/Berger or equivalent) in all shades to give an even shade on old painted and existing MTS (Manual Test station). All material and manpower along with transportation to the site is in scope of contractor.

170	RADIOGRAPHIC TESTING OF PIPE JOINTS	480	ID	250.00	120,000.00	
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RADIOGRAPHIC TESTING OF PIPE JOINTS

Scope of this work includes radiographic inspection of weld joints as per the directions of EIC. All manpower, machinery (like radiography machine, DG set etc.) & materials (like radiography film etc.) required for inspection of weld joint is in scope of contractor including transportation of the same. Submission of report verified by RT level-II engineer is also in scope of contractor. Excavation of underground pipe weld joint, pipe coating removal & surface preparation for RT is in scope of contractor. After completion of RT, recoating of pipeline with cold tape (coating material shall be provided by GAIL), holiday detection test on recoated area and backfilling of excavated section of pipeline is in scope of contractor. Any Liaising with the local farmer/ authority for excavation is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

180	ALUMINUM WALL PARTITION	400	FT2	500.00	200,000.00	Y#
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ALUMINUM WALL PARTITION

Scope includes partitioning of room with Aluminium Wall Partition including doors, plain glass window etc. Supply of material, fabrication, transportation to site & installation is in scope of contractor. Contractor has to provide the partition as per the direction of EIC. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

190	UT TEST OF PIPE LINE	10	D	3,000.00	30,000.00	
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UT TEST OF PIPE LINE

Scope of this work includes UT inspection of pipe wall as per the directions of EIC. All manpower, machinery & materials required for inspection of is in scope of contractor including transportation of the same. Submission of report verified by RT level-II engineer is also in scope of contractor. For UT testing of above ground pipeline, pipeline paint shall not be removed therefore contractor has to bring UT meter which can measure thickness of pipe metal through pipe coating. Maximum thickness of pipeline paint coating shall be 200 microns. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

200	DEWATERING	160	D	1,000.00	160,000.00	
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Scope includes dewatering of water from pits/waterlogged section with the help of water pump including transportation and consumable. Supply of machinery (dewatering pump with accessories), manpower (for operation) & materials are in the scope of contractor. Rate quoted against this SOR shall only be paid after

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S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
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successful completion of work. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

210	EXCAVATION & BACKFILLING	500.000	M3	300.00	150,000.00	
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EXCAVATION & BACKFILLING

This line item is for only manual excavation. Scope includes excavation of earth soil & backfilling of the same. All necessary manpower and tools & tackles are in the scope of contractor. Contractor has to remove pebbles/concrete/bricks etc. first and keep it at separate place before excavation in case of station underground pipe and after backfilling of the same contractor has resume the site as before. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

220	PAINTING OF UNDER GROUND PIPELINE	100	M2	350.00	35,000.00	
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PAINTING OF UNDER GROUND PIPELINE AT SV/IP/TERMINAL STATIONS

Scope includes painting of underground pipeline along with underground valves at SV stations. Before painting old paint to be removed completely. After surface preparation, Pipeline to be painted with high build epoxy after primer application. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

230	STATION UPKEEPING	250	EA	4,000.00	1,000,000.00	Y#
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STATION UPKEEPING

This job shall cover up-keeping of SV/IP stations, including grass cutting, booming of station area, cleaning of weeds, vegetables, cleaning of piping, cleaning of drains, watering & maintenance of station horticulture activities. Provision of necessary housekeeping tools, consumables (Soap solution, Broom, Toilet Cleaners etc.), cleaning items, grass cutting tools, removal of waste material from SV/IP is in scope of contractor. Transportation of station-up keepers is in the scope of contractor. Contractor has to do all above activities in each station every month. All consumables are to be supplied at each station every month. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

240	PROVIDING & LAYING RCC	100.000	M3	3,500.00	350,000.00	
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PROVIDING & LAYING RCC

Scope includes providing and laying in position Reinforced cement concrete (RCC 1:1.5:3) at various locations including the cost of centring and shuttering in pavement & foundation, supply of aggregate, consumable, iron rods, manpower, transportation, excavation, levelling etc. is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. TMT bars - FE 500D or above. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

250	HIRE CHARGE FOR JCB	400.0	HR	2,000.00	800,000.00	
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Scope includes hire charges for JCB including all consumables such as Diesel etc. and wages of operator is in scope of contractor. Contractor has to provide JCB as per direction of EIC. The scope under this line item includes execution of work by JCB like excavation, back filling, levelling, grading, cleaning etc. as per the direction of EIC. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. The working hour shall be after the JCB reaching at work site and entering the gate of SVs/IPs/Hazira Compressor Stations.

260	HIRE CHARGE FOR HYDRA	200.0	HR	1,200.00	240,000.00	
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HIRE CHARGE FOR HYDRA

Item : 2 - PART-B ARC P/L ROU MAINT
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S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
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Scope includes hire charges for Hydra including all consumables such as diesel etc. and wages of operator is in scope of contractor. Contractor has to provide Hydra as per direction of EIC. The scope under this line item includes lifting shifting of items etc. as per the direction of EIC. All the required lifting equipment (certified) shall be provided by the contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. The working hour shall after the Hydra reaching at work site and entering the gate of SVs/IPs/Hazira Compressor Stations.

270	PROVIDING AND FIXING OF BAMBOO	100	M	1.00	100.00	
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PROVIDING AND FIXING OF BAMBOO

Scope includes providing and fixing of bamboo barricading at the location of ROU washout. Barricading is to be done by fixing series of bamboos in close interval of maximum 2 inch gap of standard height as per recordation of EIC and tying them together with the help of rope. Supply of bamboos and rope, transportation and installation of the same at site is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

280	PROVIDING PORTABLE DEG	10	D	1,000.00	10,000.00	
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PROVIDING PORTABLE GENERATOR SET INCLUDING FUEL

Scope includes provision of portable Generator set of minimum 5 KVA at site as per direction of EIC. Transportation of the same to site along with Generator operator and Fuel is in scope of contractor. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR.

290	SUPPLY & INSTALLATION OF GASKETS	30	EA	100.00	3,000.00	
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SUPPLY & INSTALLATION OF GASKETS (6IN & 4IN 600#)

Scope includes services for supply & installation of gaskets in flanged joints at various SV stations under Hazira maintenance base. Supply of material is in scope of contractor. Gaskets to be installed are of 6 & 4 Inch of 600 class.

300	PROVIDING SERVICE FOR DGPS	10	D	5,000.00	50,000.00	
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PROVIDING SERVICE TO CAPTURE COORDINATES USING DGPS IN FIELD

Scope includes providing services of DGPS at any location under Hazira pipeline maintenance base as per direction of EIC. Provision of DGPS device, transportation of the same to the site & capturing of coordinates is in scope of contractor.

310	SUPPLY & INJECTION OF VALVE FLUSH IN VAL	40	EA	500.00	20,000.00	
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SUPPLY & INJECTION OF VALVE FLUSH IN VALVES

Scope includes supply of valve flush and injection of the same in pipeline valves installed in SV stations. UOM is given as EA (1 box) which corresponds to 1 Box which contains 6 sealant sticks. Specification of valve flush is as under:

Part No: SHVX/J sticks

Make: Savgen

The product is required to perform the function of Valve Cleaner/Valve Flush as well as Valve Lubricant in Ball valves/Plug Valves of AUDCO, CAMERON, NP, GROVE-DRESSOR, VIRGO etc. The product is to be supplied in J Sticks (Pack of Six J Sticks) and should be suitable for use in Sealant Hand Gun NORDSTROM 400D. The product offered should be able to dissolve hardened sealants, debris etc. Unit of measurement is box and each box contains sticks. Same is to be used in hand held hydraulic sealant gun.

320	SUPPLY & INJECTION OF SEALANT	10	EA	500.00	5,000.00	
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S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
	(GRADE-1)					

SUPPLY & INJECTION OF SEALANT (GRADE-1) IN VALVES

Scope includes supply of valve sealant for medium passing and injection of the same in pipeline valves installed in SV stations. UOM is given as EA (1 box) which corresponds to 1 Box which contains 6 sealant sticks. Specification of valve flush is as under:

Part No: SHF195V/Q

Make: Savgen

Valve sealant SHF195V/Q, specially blended sealant product for Indian high temp conditions and Gas line medium. Formulated and modified so that no ingredients breakdown and cause either short term or long term valve problems associated with general sealants.

Fully synthetic thicker product designed to seal valves of HBJ pipeline and provide guaranteed results. Special ingredients include G92 mollies, synthetic EJ poly olefins, cellulosic based fibres as well as 2 blends of lubriplate ground particles. Has special long term softening agents. Withstands temps over 306C and pressures of up-to 20,000 psi. Unit of measurement is box and each box contains six sticks. Same is to be used in hand held hydraulic sealant gun.

330	SUPPLY & INJECTION OF SEALANT (GRADE-2)	50	EA	500.00	25,000.00	
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SUPPLY & INJECTION OF SEALANT (GRADE-2) IN VALVES

Scope includes supply of valve sealant for heavy passing and injection of the same in pipeline valves installed in SV stations. UOM is given as EA (1 box) which corresponds to 1 Box which contains 6 sealant sticks. Specification of valve flush is as under:

PART NO.: SHK0C7V/QG

Make: Savgen

Valve sealant SHK0C7V/QG, specially blended sealant product for Indian high temp conditions and HBJ Gas medium suitable for Ball valves and plug valves for mp use. Formulated and modified so that no ingredients breakdown and cause problems. Fully synthetic product designed to lubricate valves and provide guaranteed results. Special ingredients include E63 mollies, synthetic EO olefins as well as blend of lubriplate ground particles. Have special long-term softening agents. Withstands temps over 390C and pressures of up-to 20,000 psi. Unit of measurement is box and each box contains six sticks. Same is to be used in hand held hydraulic sealant gun.

340	LOAD TESTING OF PIG HANDLING STRUCTURE	5	EA	20,000.00	100,000.00	
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LOAD TESTING OF PIG HANDLING STRUCTURE

Scope includes load testing of pig handling structure installed at Hazira & Jhagadiya. All material, manpower required for successful testing is in scope of contractor. Transportation of the same is also in scope of contractor. After successful testing contractor have to provide testing certificate from authorised agency in standard format.

350	STRUCTURAL STEEL WORKS-SUPPLY, FABRICATI	5,000	KG	180.00	900,000.00	
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STRUCTURAL STEEL WORKS-SUPPLY, FABRICATION AND ERECTION OF ALL TYPES OF STEEL STRUCTURE

Scope includes supply of material (structural steel), design and fabrication, transportation & installation of the same at site as directed by EIC. All material for fabrication of structure, welding, painting, lettering, transportation & installation is in scope of contractor. TMT bars - FE 500D or above. Supply of raw materials, fabrication of steel structures such as columns, column bracings, beams, ladders, crossover, valve operating platforms, hand railing, MS Grating ,Post for chain link fencing, Chequered Plates, Electrofuged gratings etc. to complete the terminal work including loading, transportation and unloading delivery at erection site of all fabricated structures, storage and handling at site, site assembly and finally erection of structures at appropriate

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location including Anchor Fastening/Grouting, alignment and welding of all structures true to line, level, plumb and dimension. The work shall be completed in all respect as per drawings, technical specification and direction of the Engineer-in-Charge.

360	SERVICE FOR ONLINE GAS LEAK ARREST	3	EA	30,000.00	90,000.00	Y#
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SERVICE FOR ONLINE GAS LEAK ARREST AT SV/IP/TERMINAL STATIONS

Scope includes supply and installation of leak clamp of 600# which is to be installed around the flange of size 2 inches, installation of the same at the location of leakage and injection of leak arresting sealant in the clamp. All material like clamp, sealant is in scope of contractor. Contractor has to ensure the quality of work as If after installation leakage arises again within one year of installation from the same clamp then contractor has to repair the same and no extra payment shall be made for repair.

370	GABION PROTECTION WITH WIRE MESH	50.000	M3	4,500.00	225,000.00	
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GABION PROTECTION WITH WIRE MESH

Gabion Size 1 meter X 1 meter X 0.5 meter Providing and laying Gabion structure with mechanically woven double twisted hexagonal shaped wire mesh gabion boxes as per IS 16014 or BS EN 10218-2, Morth Clause 2500, of required size, mesh type 10x12(D= 100mm with tolerance of + /- 2%) Zinc+ PVC coated, mesh wire diameter 2.7/3.4 mm, mechanically edged / selvedged with partitions as specified in technical specification perpendicular to twist, tying with lacing wire of diameter 2.2 / 3.2 mm (ID/OD), supplied @ 3% by weight of gabion boxes, filled with boulders with least dimension of 200 mm, all complete as per directions of Engineer-in-charge.

380	LEAK REPAIR OF 30" -36" SIZE PIPE	2	EA	20,000.00	40,000.00	
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LEAK REPAIR OF 30" -36" SIZE PIPE

Scope includes attending pipeline emergency leak in 30"-36" size pipe by applying GAIL supplied leak repair clamps at designated locations/site under GAIL Hazira. Scope also includes lifting & transportation of clamp to site, supply of manpower & machinery, excavation of soil surrounding effected area of pipeline & backfilling, leak testing as per standards to complete the work in all respect as per direction of engineer in charge. The restoration time of the leak repair is 08 hours from the time of intimation by EIC through Fax/ E-mail/Telephone. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

390	LEAK REPAIR OF 12" -16" SIZE PIPE	2	EA	5,000.00	10,000.00	
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LEAK REPAIR OF 12" -16" SIZE PIPE

Scope includes attending pipeline emergency leak in 12"-12" size pipe by applying GAIL supplied leak repair clamps at designated locations/site under GAIL Hazira. Scope also includes lifting & transportation of clamp to site, supply of manpower & machinery, excavation of soil surrounding effected area of pipeline & backfilling, leak testing as per standards to complete the work in all respect as per direction of engineer in charge. The restoration time of the leak repair is 08 hours from the time of intimation by EIC through Fax/ E-mail/Telephone. Rate quoted against this SOR shall only be paid after successful completion of work. No additional payment shall be released for execution of this SOR. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

400	EXTENSION OF VENT & DRAIN	1,000	KG	150.00	150,000.00	
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EXTENSION OF CASING PIPE DRAIN & VENT

Scope of this item includes

- (i) Supply, Fabrications & welding of vent/drain pipes of CS (3"/2# N.B SCH-40)

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(ii) Transportation & fixing at site and installation at Road/Rail crossings of pipeline. Excavation for installation of drain & vent pipe (by welding) is also in scope of contractor. Please note that existing casing pipes are installed at a depth of 2.5 to 3.5 mtrs. from ground level.

(iii) Installation/Grouting of Vent & Drain as per drawing by providing/ laying of PCC grade 1:2:4 (1 cement: 2 course sand: 4 graded metal of 20 mm aggregate) including cost of centering & shuttering etc. all work upto plinth level

(iv) Painting of Vent & Drain with synthetic enamel paint of reputed brand applying 3 or more coats on exposed surface after applying of primer complete in all respect as per drawing & specifications given and instruction of EIC.

Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

410	LRUT OF PIPELINE	5	D	10,000.00	50,000.00	
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LRUT OF PIPELINE

LRUT of pipeline ranging from 12 inch to 36 inch.

LRUT is used to locate areas in metal pipes in which wall loss has occurred due to corrosion or erosion. LRUT utilizes ultrasonic guided waves, sent in the axial direction of the pipe, to non-destructively test pipes for defects or other features by detecting changes in the cross-section and/or stiffness of the pipe. It does not provide a direct measurement of wall thickness, but is sensitive to a combination of the CSC and circumferential extent and axial extent of any metal loss. Based on this information, a classification of the severity can be assigned. The LRUT method provides a screening tool to quickly identify any discontinuity along the pipe. Where a possible defect is found, follow-up inspection of suspected areas with ultrasonic testing or other NDT methods is normally required to obtain detailed thickness information, nature, and extent of damage. It also provides some information on the axial length of a discontinuity, provided that the axial length is longer than roughly a quarter of the wavelength of the excitation signal. LRUT technique applies to pipes that are straight, constructed of a single pipe size and schedules, fully accessible at the test location, jointed by girth welds, supported by simple contact supports and free of internal, or external coatings, or both; the pipe may be insulated or painted.

LRUT Inspection of line pipes at site shall include:

1. On-site LRUT inspection
2. Submission of brief daily report on site
3. Preparation of final reports with overall summary, photos and tables identifying the anomaly location, isometric drawings showing appropriate metal loss locations in standard reporting format.
4. Surface preparation including the removal of 3-LPE coating in sin the scope of contractor.

LRUT Equipment shall have following capabilities:

1. LRUT Multi-Mode Flaw Detector with accessories.
2. Focusing capability to evaluate corrosion distribution around the pipe's circumference.
3. Typical test range ± 20 mts in each direction from a single location for aboveground lines, ideal conditions can achieve more in a single inspection depending on the pipe layout, attachments, supports, product etc.
4. Proven capability on pipe in service from 0°C up to 100°C according to the LPG in service.
5. Reliable detection of min. 3% Cross section metal loss flaws.

Level II as per ANSI/ASNT CP-189, SNT-TC-1A or similar having expertise in carrying out LRUT, Interpretation skill and minimum 3 years# experience in inspection by LRUT / SRUT technique, however interpretation of test results shall be reviewed by ASNT UT Level-III having minimum 05 years of experience.

420	PAUT AT GWA/LWA/SWA AT WELD LOCATIONS	10	EA	20,000.00	200,000.00	
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PAUT AT GWA/LWA/SWA AT WELD LOCATIONS

PAUT AT GWA/LWA/SWA AT WELD LOCATIONS of pipeline ranging from 12 inch to 36 inch.

Phased arrays are used for weld, HAZ and parent metal inspections. The arrays consist of a series of individual

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transducer elements, each separately wired, time-delayed and electrically isolated; the arrays are typically pulsed in groups to permit #phasing,# or constructive destructive interference. Though primarily a method of generating and receiving ultrasound, phased arrays are also a method of scanning and imaging. All necessary equipment#, tools and manpower are in scope of contractor. Excavation of weld joint for execution of this SOR is also in scope of contractor.

All PAUT Reports should be reviewed by ASNT Level-III.

Report shall be submitted in hard (01 set) and Soft Copies to the Company.

All the jobs must be carried out, as per tender document towards successful completion of the job. All the works have to be undertaken as per standard specifications and instructions & directions of Engineer-In-Charge.

430	TOFD OF THE GWA/LWA/SWA AT WELD LOCATION	10	EA	1,000.00	10,000.00	
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TOFD OF THE GWA/LWA/SWA AT WELD LOCATION

TOFD AT GWA/LWA/SWA AT WELD LOCATIONS of pipeline ranging from 12 inch to 36 inch.

TOFD is an ultrasonic examination technique that can provide improved detection and sizing capabilities of discontinuities compared to standard ultrasonic pulse-echo techniques. It uses forward scattered tip diffraction and reflection of transmitted ultrasonic pulse. In addition to a stand-alone ultrasonic detection technique TOFD may be used to improve sizing estimates of flaws detected by the manual or mechanized pulse-echo techniques and help discriminate between flaws and geometric reflectors.

All PAUT Reports should be reviewed by ASNT Level-III.

Report shall be submitted in hard (01 set) and Soft Copies to the Company.

All the jobs must be carried out, as per tender document towards successful completion of the job. All the works have to be undertaken as per standard specifications and instructions & directions of Engineer-In-Charge.

440	WELDING OF PIPE JOINTS IN GAS PIPELINE	100	ID	5,000.00	500,000.00	
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WELDING OF PIPE JOINTS IN GAS PIPELINE

Scope of this work include, EQT, PQT & WQT, WPS, stringing of line pipe over sand bags, bevel preparation, welding of pipe joints as per procedure specification. Hiring of TPI, material, manpower & machinery for successful completion of job is in scope of contractor. Lifting of pipe from designated GAIL yard is in scope of GAIL however transportation of the same to site is in scope of contractor. Excavation, NDT & inspection of weld joints by UT & RT is in scope of GAIL.

450	PEST & RODENT CONTROL IN SV/RR/IP	300	EA	50.00	15,000.00	
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PEST & RODENT CONTROL IN SV/RR/IP

Frequency for this service will be once in a month for all terminals. The contractor has to plan to keep the suitable powder/ cake/glue pad. If any complaint arises then contractor has to provide additional service on their cost. Transportation to all terminals is in the scope of contractor.

Name of chemical: ZINC PHOSPHIDE/COUMATETRALYL (0.0375%W/W) TRACKING POWDER BROMADIOLONE 0.005% (CACK).

Rodent control services in areas as per list enclosed in SCC part by using loose baits/cakes with anti-coagulant rodenticides (Which should not be dangerous to human being) in both inside and outside the building area as per scope of work. Frequency of services will be monthly or as decided by EIC. One visit for treatment will be treated as one service for payment purpose. For different SV Stations and IP Station situated on DUPL and HVJ pipelines of Hazira jurisdiction. List enclosed in SCC.

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Contractor has to take signature of security person deployed or Concerned In charge of Terminal as a Proof of Obtaining services.

460	REPTILE CONTROL IN SV/RR/IP	300	EA	50.00	15,000.00	
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REPTILE CONTROL IN SV/RR/IP

Frequency for this service will be once in a month for all terminals. Spraying / putting suitable insecticide at the location directed by the EIC. The contractor has to ensure that no snake found in the compound, Building Area and in other locations of terminals. Frequency can be increased or decreased and will be decided by EIC, However, the contractor has to ensure effective service by providing any alternative method with duly consent of EIC.

Chemical Recommended: METHYL PARATHION2% DP/CARBOLIC ACID GRANULS / RAPEX OR ANY OTHER ALTERNATIVE EFFECTIVE CHEMICALS AVAILABLE IN MARKET FOR BETTERMENT SERVICE.

Snake control services in various pipeline terminals (RR, SV, IP Station) by putting suitable snake protective powder / liquid and insecticide for effective services for all buildings Terminals. In this item only operation charges to be quoted, however consumables will be paid extra in separate item. (One visit for treatment will be treated as one service for payment purpose and consumable material will be paid in separate item.) After treatment, contractor has to take the signature from GAIL authorized representative / Security guard.

470	SUPPLY & INSTALLATION OF CASING END SEAL	5	EA	2,000.00	10,000.00	
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SUPPLY AND INSTALLATION OF CASING END SEAL FOR CARRIER PIPE SIZE 36" & CASING SIZE 42"

Scope includes supply and installation of Fiberglass reinforced backing for high mechanical resistance. Resists a wide range of environmental and mechanical forces and Reliable, moisture-proof seal. Specially formulated sealant to ensures a strong bond & tight seal to virtually any substrate and maintain its elasticity and sealing characteristics over a wide temperature range. Sealing adhesive to automatically flow and repairs minor mechanical damages. Zipper closure system which to simple & fast installation. Should be usable when service pipe is not concentric with the casing. No special equipment should be required for installation. Maximum pipeline operating temp. is 60 deg. Celsius. Compatible with 3LPE line coatings. The mobilization of resources, manpower, materials etc. for the installation in the scope of contractor. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

480	SUPPLY & INSTALLATION OF CASING END SEAL	10	EA	2,000.00	20,000.00	
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SUPPLY AND INSTALLATION OF CASING END SEAL FOR CARRIER PIPE SIZE 30" & CASING SIZE 36"

Scope includes supply and installation of Fiberglass reinforced backing for high mechanical resistance. Resists a wide range of environmental and mechanical forces and Reliable, moisture-proof seal. Specially formulated sealant to ensures a strong bond & tight seal to virtually any substrate and maintain its elasticity and sealing characteristics over a wide temperature range. Sealing adhesive to automatically flow and repairs minor mechanical damages. Zipper closure system which to simple & fast installation. Should be usable when service pipe is not concentric with the casing. No special equipment should be required for installation. Maximum pipeline operating temp. is 60 deg. Celsius. Compatible with 3LPE line coatings. The mobilization of resources, manpower, materials etc. for the installation in the scope of contractor. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

490	SUPPLY & INSTALLATION OF CASING	4	EA	2,000.00	8,000.00	
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	END SEAL					

SUPPLY AND INSTALLATION OF CASING END SEAL FOR CARRIER PIPE SIZE 12" & CASING SIZE 18"

Scope includes supply and installation of Fiberglass reinforced backing for high mechanical resistance. Resists a wide range of environmental and mechanical forces and Reliable, moisture-proof seal. Specially formulated sealant to ensures a strong bond & tight seal to virtually any substrate and maintain its elasticity and sealing characteristics over a wide temperature range. Sealing adhesive to automatically flow and repairs minor mechanical damages. Zipper closure system which to simple & fast installation. Should be usable when service pipe is not concentric with the casing. No special equipment should be required for installation. Maximum pipeline operating temp. is 60 deg. Celsius. Compatible with 3LPE line coatings. The mobilization of resources, manpower, materials etc. for the installation in the scope of contractor. Any Liaising with the local farmer / authority for execution of this SOR is in scope of contractor.

500	SUPPLY & INSTALLATION OF MISCELLANEOUS I	500,000	EA	1.13	565,000.00	
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SUPPLY & INSTALLATION OF MISCELLANEOUS ITEMS

Supply of miscellaneous items/Spares/Consumables which are not covered in SOR. The market price will be determined by obtaining minimum 3 quotations from authorized supplier of particular item.

510	HYDROTEST OF 12-16 INCH U/G AND A/G	4	EA	100,000.00	400,000.00	Y#
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HYDROTEST OF 12-16 INCH UNDERGROUND AND ABOVE GROUND PIPES

Hydro testing of pipes at various pressures (maximum 140 Kg/Sqcm or as per EIC) with holding period decide by EIC, at designated yard or as directed by EIC. The job includes handling of pipe within yard area, making all arrangement for hydro testing like providing end caps & header, welding end caps, welding of headers, pumps etc. and making pipe edges ready by bevelling after completion of test etc. complete including stacking of tested line pipes at the yard as directed by EIC (Each unit shall be pipe string not more than 24 Meters consisting of 1 welding joint)The Contractor's Scope of Work for the underground pipelines shall consist of, but not limited to, Hydrostatic test shall be performed on the entire length of the specified pipeline section under the jurisdiction of respective maintenance base as directed by GAIL. GPS coordinates of pipelines if available, will be shared with contractor and start & end point point/location of pipelines will be shown to contractor during joint field/ site visit.

Hydrostatic test shall be performed in accordance with approved Hydrostatic Test Diagrams clearly indicating the number of test sections and minimum and maximum test pressures in each test sections. All such works that are not indicated here below but are otherwise required completing the work in all respects shall form part of Contractor's Scope of Work. CONTRACTOR shall mobilize and provide all equipment#, manpower (skilled and unskilled), calibrated instruments, consumables and other resources etc. as required for the execution of the complete job defined herein. Contractor shall provide complete details of manpower, equipment#s etc. to be deployed. Hydrostatic test shall commence only after Clearance from GAIL as per length and section finalised by GAIL. Water quality as per specified standards may be used and additive shall be checked and inspected by GAIL.

520	HYDROTEST OF 24 INCH & ABOVE U/G AND A/G	4	EA	100,000.00	400,000.00	Y#
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HYDROTEST OF 24 INCH & ABOVE UNDERGROUND AND ABOVE GROUND PIPES

Hydro testing of pipes at various pressures (maximum 140 Kg/Sqcm or as per EIC) with holding period decide by EIC, at designated yard or as directed by EIC. The job includes handling of pipe within yard area, making all arrangement for hydro testing like providing end caps & header, welding end caps, welding of headers, pumps etc. and making pipe edges ready by bevelling after completion of test etc. complete including stacking of tested line pipes at the yard as directed by EIC (Each unit shall be pipe string not more than 24 Meters consisting of 1 welding joint)The Contractor's Scope of Work for the underground pipelines shall consist of, but

Item : 2 - PART-B ARC P/L ROU MAINT
Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
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not limited to, Hydrostatic test shall be performed on the entire length of the specified pipeline section under the jurisdiction of respective maintenance base as directed by GAIL. GPS coordinates of pipelines if available, will be shared with contractor and start & end point point/location of pipelines will be shown to contractor during joint field/ site visit.

Hydrostatic test shall be performed in accordance with approved Hydrostatic Test Diagrams clearly indicating the number of test sections and minimum and maximum test pressures in each test sections. All such works that are not indicated here below but are otherwise required completing the work in all respects shall form part of Contractor's Scope of Work. CONTRACTOR shall mobilize and provide all equipment#, manpower (skilled and unskilled), calibrated instruments, consumables and other resources etc. as required for the execution of the complete job defined herein. Contractor shall provide complete details of manpower, equipment#s etc. to be deployed. Hydrostatic test shall commence only after Clearance from GAIL as per length and section finalised by GAIL. Water quality as per specified standards may be used and additive shall be checked and inspected by GAIL.

530	PIPE SUPPORTS & OTHER STRUCTURES	300	KG	200.00	60,000.00	
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PIPE SUPPORTS & OTHER STRUCTURES

Supply, fabrication and erection of all types of pipe supports like clamps, saddle, guide stops, cradles, turn buckles, anchors, T-posts; stockade/ trestle and pipe bridge for overhead piping; etc. including anchor fastening labour and supervision & complete work as per drawings, specifications and instruction of Engineer-in-charge. (Bolts, nuts, washers, U-clamps etc. for supporting shall be supplied by the Contractor within the rates quoted. These items will not be measured and paid separately). The work is to be completed in all respect as per scope of work and specification.

540	HIRE BASIS SERVICES FOR HELPER	100	D	700.00	70,000.00	
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HIRE BASIS SERVICES FOR HELPER

Providing Services OF Helper on hire in the following categories complete on Day (8 Hrs) basis with necessary tools-tackles, consumable, accessories etc. (other than special non-sparking tools).

550	HIRE BASIS SERVICES FOR EXCAVATOR CUM LO	100.0	HR	3,500.00	350,000.00	
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HIRE BASIS SERVICES FOR EXCAVATOR CUM LOADER

Excavator cum Loader - JCB (1400 Kg bucket / 1.1 cum loader capacity). Payment to be done on hourly basis, however, min 4 hours of deployment to be considered in case required for less than 4 hrs at one instance. Time will be calculated after deployment at site. Transportation, fuel and all other kind of charges included in this line item. No additional cost will be included.

560	HIRE BASIS SERVICES FOR EICHER TRUCK	500.000	KM	150.00	75,000.00	
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HIRE BASIS SERVICES FOR EICHER TRUCK

Transportation of material as per the instruction of EIC/SIC by Eicher Truck (17ft long long) or equivalent. Kilometres will be calculated after deployment at source site. Transportation, fuel and all other kind of charges included in this line item. No additional cost will be included.

570	HIRING OF LIQUID N2 TANKER WITH VAPORISE	3,000	KG	150.00	450,000.00	
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HIRING OF LIQUID N2 TANKER WITH VAPORISER

Liquid Nitrogen in tanker with Vaporiser and operator. Time will be calculated after deployment at site. Transportation, fuel and all other kind of charges included in this line item. No additional cost will be included.

Item : 2 - PART-B ARC P/L ROU MAINT
Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
580	2-8 INCH VALVE RECONDITIONING & OVERHAUL	5	EA	5,500.00	27,500.00	

2-8 INCH VALVE RE-CONDITIONING & OVERHAULING

Job includes Re-conditioning & Overhauling of gas pipeline valves as per following scope of works:

- Collect Valves from terminal under jurisdiction of Hazira O&M maintenance base.
- Shifting of valves to Vendor's Workshop.
- Dismantling of valves for Inspection of components.
- Cleaning, Polishing, Machining, Lapping, Replacing of all soft seals, Gaskets, O Rings & Gland Packing, Assembly, Testing & Painting.
- Repairing/ servicing of gear Box
- Hydro Testing of valve as per applicable standard in presence of GAIL representative.
- Deliver the refurbished valve to GAIL Hazira.
- Submission of test reports & job performance reports to GAIL.
- Any other work required to complete the job in all respects.

Note:

All spares, consumables & other materials required for Repair/ Refurbishment of Valves shall be in the scope of contractor.

590	10-16 INCH VALVE RECONDITIONING & OVERH	5	EA	10,500.00	52,500.00	
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10-16 INCH VALVE RE-CONDITIONING & OVERHAULING

Job includes Re-conditioning & Overhauling of gas pipeline valves as per following scope of works:

- Collect Valves from terminal under jurisdiction of Hazira O&M maintenance base.
- Shifting of valves to Vendor's Workshop.
- Dismantling of valves for Inspection of components.
- Cleaning, Polishing, Machining, Lapping, Replacing of all soft seals, Gaskets, O Rings & Gland Packing, Assembly, Testing & Painting.
- Repairing/ servicing of gear Box
- Hydro Testing of valve as per applicable standard in presence of GAIL representative.
- Deliver the refurbished valve to GAIL Hazira.
- Submission of test reports & job performance reports to GAIL.
- Any other work required to complete the job in all respects.

Note:

All spares, consumables & other materials required for Repair/ Refurbishment of Valves shall be in the scope of contractor.

600	SUPPLY AND LAYING OF LOCK PAVER BLOCK	500	M2	800.00	400,000.00	
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SUPPLY AND LAYING OF COLOURED INTER-LOCKING CC PAVER BLOCK

Providing and laying CC Paver blocks, Providing and laying factory made coloured chamfered edge cement concrete Paver blocks of required strength, thickness & size/shape made by table vibratory method using rubber (PU) mould, laid in required colour & pattern over 50mm thick compacted bed of fine sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications & direction of EIC. 80 mm thick C.C. paver block of M-30 grade with approved colour, design & pattern. DSR 16.91.2 2018

Item : 2 - PART-B ARC P/L ROU MAINT
Plant : 3011 - NG Comp Stn - Hazira- Gujarat (GJ)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
610	WALL PAINTING	5,000	M2	50.00	250,000.00	

WALL PAINTING

Wall painting with weatherproof and water resistant external acrylic emulsion paint, with silicone additives. Application of two coats, and including additional coats wherever required, to achieve even shade and colour as per EIC direction. The surface shall be thoroughly cleaned and dusted off. All rust, dirt, scales, smoke splashes, mortar droppings and grease shall be thoroughly removed before painting is started. The prepared surface shall have received the approval of the Engineer-in-Charge after inspection, before painting is commenced. The surface on finishing shall present a flat velvety smooth finish. If necessary more coats will be applied till the surface presents a uniform appearance. Painting of Boundary Wall is to be done with APEX. For Main surface: - Morning Dream (Asian Paints)/Celestial Sun (Burger Paints) or Equivalent. For Projections/Patta: - TERRACOTTA-N (ASIAN PAINTS) / RUST RED (BERGER PAINTS) or equivalent. This line item includes manpower, transportation, measurement, scaffolding, all kind of consumables etc.

Work Order Item 00002 Basic Item Value : INR 12,361,600.00
(RUPEE TWELVE MILLION THREE HUNDRED SIXTY-ONE THOUSAND SIX HUNDRED ONLY)
Total Tax = 2,225,088.00
18 % GST (SGST 9 % + CGST 9 %)-Non Cenvatable-(SC)
Total item value including taxes & duties : INR 14,586,688.00

Total estimated contract value excluding all tax and duties : 15,119,080.72
(RUPEES ONE CRORE FIFTY-ONE LAC NINETEEN THOUSAND EIGHTY & PAISE SEVENTY-TWO ONLY)

Total estimated contract value including all tax and duties : 17,840,515.24
(RUPEES ONE CRORE SEVENTY-EIGHT LAC FORTY THOUSAND FIVE HUNDRED FIFTEEN & PAISE TWENTY-FOUR ONLY)

*Service items marked YY under AHR column are AHR items. Any service item marked #Y or Y# confirmation is required from authorized dealing officer who shall be final authority regarding AHR declaration. However, service items marked #Y or Y# shall be treated as AHR unless confirmed Non-AHR by dealing officer.