

Tender Inviting Authority: GAIL (India) LIMITED

Name of Work: Coating Refurbishment and Associated works of Vaghodia to RIL & GPU Gandhar to GNFC Pipeline in Gujarat (SECTION-A)

Tender No:

Do you want to quote for this sheet ?

Yes

Name of the Bidder/ Bidding Firm / Company :

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )

| NUMBER # | TEXT #   | TEXT #        | NUMBER # | TEXT #      | NUMBER #   | NUMBER #  | TEXT #  |
|----------|--|---------------|----------|-------------|--|---|---|
| Sl. No.  | Item Description   | Item Code     | Quantity | Units       | UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT [IN FIGURES] | TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT [IN FIGURES] | TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT [IN WORDS] |
| 1        | 2  | 3             | 4        | 5           | 13   | 63  | 65  |
| 1        | <b>SECTION-A (VAGHODIA - RIL VADODARA LINE (18" dia x 8 Km Length))</b>  |               |          |             |  |   |   |
| 2        | <b>COATING AND WRAPPING OF PIPELINE</b>  | <b>A00100</b> |          |             |  |   |   |
| 3        | Receiving and taking over, as defined in the specifications, handling, loading, transportation and unloading of Owner-supplied 3 PLY & 2PLY coating materials along with associated materials like Primer, Filler Material etc. from Owner's designated stock-yard to Contractor's stock-yard / workshop / work-site including preliminary activities, preparation of drawings, wherever required etc. including handling, stacking, on the pipeline right-of-use / pipeline route alignment, carrying out inspection of Company-supplied materials, at the time of taking over, including execution of all works, including loading and unloading, arrangement of all additional land required for Contractor's storage, 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, as per drawings, specifications, other provisions of Contract Document and instructions of Engineer-in-Charge (EIC), including, but not limited to, carrying out following works: |               |          |             |  |   |   |
| 4        | Survey required for entire pipeline route at the time of construction including marking the route map, alignment sheet, topographical sheet & other survey drawings, etc., preparation of AFC drawings showing survey details, and submit same to Owner for review.  |               |          |             |  |   |   |
| 5        | Excavating in all type of soil including hard murrum & rock for exposing existing pipeline in ROW normally buried at 1.5 m to 2.5 mtr depth (The depth may vary near road/ rail / nala/ cart track crossing or at locations where subsequent filling has taken place). The rates are inclusive of shoring, shuttering, de-watering of surface water and water in pipeline trench & cutting of cart tracks, Kachha irrigation channel and embankment falling in ROU and making bye pass for the movement of equipments and restoration of the same to its original condition upon the completion of the job. During excavation all necessary precautions are to be taken by providing sand bag/earth support to ensure maximum unsupported length of less than 10 m. The size of the trench width and depth will be suitable for ensuring free movement of the GAIL/PMC supplied hand wrapping machine for coating application.   |               |          |             |  |   |   |
| 6        | Removing old coal & wrap with scrappers using wooden/ brass hammers etc. Safe disposal of the old coal tar coating as directions of Owner/PMC.   |               |          |             |  |   |   |
| 7        | Surface preparation of pipe by copper slag abrasive blasting to achieve Sa21/2 finish with anchor pattern 50 to 100 microns. Checking and marking the blasted steel surface area for surface imperfections/pits/damages and recording the length of the pipe from girthweld to girthweld.  |               |          |             |  |   |   |
| 8        | Measuring the wall thickness of the pipe using ultrasonic meter at 3,6,9 and 12 o'clock position every three meter and at locations where pitting is observed.   |               |          |             |  |   |   |
| 9        | Application of the coating material to be free issued by GAIL.<br>(i) Applying liquid adhesive primer at the blasted surface with hand brush.<br>(ii) Applying 3ply tape inner layer with 50% overlap with the help of hand operated machine followed by an 2ply tape outer layer for additional mechanical protection also to be applied with 50% overlap with the help of hand operated machine to the satisfaction of GAIL/PMC.   |               |          |             |  |   |   |
| 10       | Inspection and testing of the coating - thickness testing, 100% holiday detection, peel test. The frequency of the testing shall be as per approved QAP.   |               |          |             |  |   |   |
| 11       | Backfilling of the trench gradually with available soft selected earth all around the pipe in full trench width up to 12" below the pipe to 12" above the pipe. During back filling contractor shall properly provide compaction of the backfilled earth & restore the worksite / to original conditions.  |               |          |             |  |   |   |
| 12       | Restoration of the ROU to its original condition including restoration of field boundaries/ fencing/ field demarcation post / drains / channels / roads / irrigation pipes of the farmers / ROU boundary pillars / TLPs / KM posts / warning sign boards / markers/ Turning point markers etc. to the satisfaction of GAIL/PMC.  |               |          |             |  |   |   |
| 13       | Preparation of as-built drawings, documents (2 soft copy in AutoCad format in CD, 2 soft-copies in PDF format (in CD) and 4 set of hard-copies ) All the works shall be executed in accordance with the provision of Contract and direction of GAIL Engineer-In-Charge(EIC)  |               |          |             |  |   |   |
| 14       | 3 PLY& 2 PLY cold applied system at Dry Areas/ Wet Area during Rainy season:   | A00101        | 8000     | Meter       |  | 0.00  | INR Zero Only   |
| 15       | <b>EXTRA EXCAVATION FOR DEPTH BEYOND 2.5M DEPTH TO 3.5 M DEPTH</b>   | <b>A00200</b> |          |             |  |   |   |
| 16       | Extra excavation for depth beyond 2.5m depth and upto 3.5 M depth in river/ canal beds and other specific locations: Excavation in all types of ordinary and hard soils including hard murrum including de-watering the excavated pits necessary shoring, strutting including backfilling, stacking selected excavated material for back filling and/ or disposing outside the premises of GAIL, if the depth of the pipe (from top of pipe) is more than 2.5m depth from average land surface level. Payment shall be made for quantity in cum to be calculated beyond 2.5 depth (from top of pipe to surface level) of pipe  | A00210        | 1200     | Cubic Meter |  | 0.00  | INR Zero Only   |

|                         |   |               |     |             |  |  |             |               |
|-------------------------|---|---------------|-----|-------------|--|--|-------------|---------------|
| 17                      | <b>EXTRA EXCAVATION FOR DEPTH BEYOND 3.5 M DEPTH</b>  | <b>A00300</b> |     |             |  |  |             |               |
| 18                      | Extra excavation for depth beyond 3.5 mtr depth in canal beds and other specific locations: Excavation in all types of ordinary and hard soils including hard murrum including dewatering the excavated pits necessary shoring, shuttering including backfilling, stacking selected excavated material for back filling and/ or disposing outside the premises of GAIL, if the depth of the pipe (from top of pipe) is more than 3 mtr depth from average land surface level. Payment shall be made for quantity in cum to be calculated beyond 3 mtr depth (from top of pipe to surface level) of pipe. Average depth considered up to 6 mtr.  | <b>A00310</b> | 600 | Cubic Meter |  |  | <b>0.00</b> | INR Zero Only |
| 19                      | <b>SUPPLY AND FILLING OF SELECTED EARTH/MOORUM (EXCLUDING BLACK COTTON SOIL)</b>  | <b>A00400</b> |     |             |  |  |             |               |
| 20                      | Supplying and filling selected earth/moorum (excluding black cotton soil) from Contractor's own borrow areas including royalty, with all leads and lifts in low laying areas and filling to required grade and level including watering, compacting at optimum moisture content to 90% of Proctor's density, consolidation and rolling with 8to10 tonne power roller in layers not exceeding 20cm thickness, complete in all respects inclusive of cost of all labour, materials ,tools, tackless etc. as per drawings, specification and direction of GAIL Engineer-In-Charge(EIC)   | <b>A00410</b> | 400 | Cubic Meter |  |  | <b>0.00</b> | INR Zero Only |
| 21                      | <b>PUMPING OUT OF WATER</b>   | <b>A00500</b> |     |             |  |  |             |               |
| 22                      | Pumping out of water including dewatering trenches, ponds, depressions etc. by contractor's own pump with all labour, hoses, consumables, fuel etc. complete as per the direction of the Engineer-in-charge. Note: This item shall be operated only after getting the approval of the Engineer-in-charge. This item shall be included only when Dewatering/ Pumping out of water is not included in any other item. (This item pertains to only such pumping of water as is envisaged at the time of tendering and do not include those that need be covered under contractual risk).From ponds, pits, trenches etc. where volume is not measurable. Note: Unit of measurement is H (hour) which shall be measured as number of hrs. of pump running per horse power (HP) of pump used. | <b>A00510</b> | 80  | Days        |  |  | <b>0.00</b> | INR Zero Only |
| 23                      | <b>REPAIR AND RECONNECTION OF CATHODIC PROTECTION (CP) CABLES ON PIPELINE</b>   | <b>A00600</b> |     |             |  |  |             |               |
| 24                      | Repair and reconnection of CP cables on existing Pipelines through Pin Brazing as per drawing, specification and direction of GAIL/PMC Engineer-In-Charge   | <b>A00610</b> | 40  | EACH        |  |  | <b>0.00</b> | INR Zero Only |
| 25                      | <b>Note: (1)</b> The quantities given above against individual items are indicative and shall not be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution. Procurement shall be done as per actual site condition, approved construction drawings and as per instruction of EIC. The unit rate shall be operated to work out the final payment to the contractor;  |               |     |             |  |  |             |               |
| 26                      | Total of Section A excluding GST  |               |     |             |  |  |             | <b>0.00</b>   |
| 27                      | GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total Section A  |               |     | percentage  |  |  | <b>0.00</b> | INR Zero Only |
| <b>Total in Figures</b> |   |               |     |             |  |  | <b>0.00</b> | INR Zero Only |

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[Item Rate BoQ](#)

Tender Inviting Authority: GAIL (India) LIMITED

Name of Work: Coating Refurbishment and Associated works of Vaghodia to RIL & GPU Gandhar to GNFC Pipeline in Gujarat (SECTION-B)

Tender No:

Do you want to quote for this sheet ?

Yes

Name of the Bidder / Bidding Firm / Company :

**PRICE SCHEDULE**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )

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| Sl. No.  | Item Description   | Item Code     | Quantity | Units  | UNIT RATE INCLUSIVE OF ALL TAXES, DUTIES BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT [IN FIGURES] | TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT [IN FIGURES] | TOTAL AMOUNT INCLUSIVE OF ALL TAXES, DUTIES BUT EXCLUDING GST AS DEFINED IN BID DOCUMENT [IN WORDS] |
| 1        | 2  | 3             | 4        | 5      | 13   | 53  | 55  |
| 1        | <b>SECTION-B [GPU GANDHAR DT - GNFC RT LINE (18" dia x 29.5 Km Length)]</b>  |               |          |        |  |   |   |
| 2        | <b>COATING AND WRAPPING OF PIPELINE</b>  | <b>B00100</b> |          |        |  |   |   |
| 3        | Receiving and taking over, as defined in the specifications, handling, loading, transportation and unloading of Owner-supplied 3 PLY & 2PLY coating materials along with associated materials like Primer, Filler Material etc. from Owner's designated stock-yard to Contractor's stock-yard / workshop / work-site including preliminary activities, preparation of drawings, wherever required etc. including handling, stacking, on the pipeline right-of-use / pipeline route alignment, carrying out inspection of Company-supplied materials, at the time of taking over, including execution of all works, including loading and unloading, arrangement of all additional land required for Contractor's storage, 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, as per drawings, specifications, other provisions of Contract Document and instructions of Engineer-in-Charge (EIC), including, but not limited to, carrying out following works: |               |          |        |  |   |   |
| 4        | Survey required for entire pipeline route at the time of construction including marking the route map, alignment sheet, topographical sheet & other survey drawings, etc., preparation of AFC drawings showing survey details, and submit same to Owner for review.  |               |          |        |  |   |   |
| 5        | Excavating in all type of soil including hard murum & rock for exposing existing pipeline in ROW normally buried at 1.5 m to 2.5 mtr depth (The depth may vary near road/ rail / nala/ cart track crossing or at locations where subsequent filling has taken place) . The rates are inclusive of shoring, shuttering, de-watering of surface water and water in pipeline trench & cutting of cart tracks, Kachha irrigation channel and embankment falling in ROU and making bye pass for the movement of equipments and restoration of the same to its original condition upon the completion of the job. During excavation all necessary precautions are to be taken by providing sand bag/earth support to ensure maximum unsupported length of less than 10 m. The size of the trench width and depth will be suitable for ensuring free movement of the GAIL/PMC supplied hand wrapping machine for coating application.   |               |          |        |  |   |   |
| 6        | Removing old coat & wrap with scrappers using wooden/ brass hammers etc. Safe disposal of the old coal tar coating as directions of Owner/PMC.   |               |          |        |  |   |   |
| 7        | Surface preparation of pipe by copper slag abrasive blasting to achieve Sa21/2 finish with anchor pattern 50 to 100 microns. Checking and marking the blasted steel surface area for surface imperfections/pits/damages and recording the length of the pipe from air/weld to girthweld.   |               |          |        |  |   |   |
| 8        | Measuring the wall thickness of the pipe using ultrasonic meter at 3,6,9 and 12' o clock position every three meter and at locations where pitting is observed.  |               |          |        |  |   |   |
| 9        | Application of the coating material to be free issued by GAIL.<br>(i) Applying liquid adhesive primer at the blasted surface with hand brush.<br>(ii) Applying 3ply tape inner layer with 50% overlap with the help of hand operated machine followed by an 2ply tape outer layer for additional mechanical protection also to be applied with 50% overlap with the help of hand operated machine to the satisfaction of GAIL/PMC.   |               |          |        |  |   |   |
| 10       | Inspection and testing of the coating - thickness testing, 100% holiday detection, peel test. The frequency of the testing shall be as per approved QAP.   |               |          |        |  |   |   |
| 11       | Backfilling of the trench gradually with available soft selected earth all around the pipe in full trench width up to 12" below the pipe to 12" above the pipe. During back filling contractor shall properly provide compaction of the backfilled earth & restore the worksite / to original conditions.  |               |          |        |  |   |   |

|    |   |               |       |             |  |  |                    |
|----|---|---------------|-------|-------------|--|--|--------------------|
| 12 | Restoration of the ROU to its original condition including restoration of field boundaries/ fencing/ field demarcation post / drains / channels / roads / irrigation pipes of the farmers / ROU boundary pillars / TLPs / KM posts / warning sign boards / markers/ Turning point markers etc. to the satisfaction of GAIL/PMC.   |               |       |             |  |  |                    |
| 13 | Preparation of as-built drawings, documents (2 soft copy in AutoCad format in CD, 2 soft-copies in PDF format (in CD) and 4 set of hard-copies ) All the works shall be executed in accordance with the provision of Contract and direction of GAIL Engineer-In-Charge(EIC)   |               |       |             |  |  |                    |
| 14 | 3 PLY & 2 PLY cold applied system at Dry Areas/ Wet Area during Rainy season:   | B00101        | 29500 | Meter       |  |  | 0.00 INR Zero Only |
| 15 | <b>EXTRA EXCAVATION FOR DEPTH BEYOND 2.5M DEPTH TO 3.5 M DEPTH</b>  | <b>B00200</b> |       |             |  |  |                    |
| 16 | Extra excavation for depth beyond 2.5m depth and upto 3.5 M depth in river/ canal beds and other specific locations: Excavation in all types of ordinary and hard soils including hard murrum including de-watering the excavated pits necessary shoring,shuttering including backfilling, stacking selected excavated material for back filling and/ or disposing outside the premises of GAIL, if the depth of the pipe (from top of pipe) is more than 2.5m depth from average land surface level. Payment shall be made for quantity in cum to be calculated beyond 2.5 depth (from top of pipe to surface level) of pipe   | B00210        | 3000  | Cubic Meter |  |  | 0.00 INR Zero Only |
| 17 | <b>EXTRA EXCAVATION FOR DEPTH BEYOND 3.5 M DEPTH</b>  | <b>B00300</b> |       |             |  |  |                    |
| 18 | Extra excavation for depth beyond 3.5 mtr depth in canal beds and other specific locations: Excavation in all types of ordinary and hard soils including hard murrum including de-watering the excavated pits necessary shoring, shuttering including backfilling, stacking selected excavated material for back filling and/ or disposing outside the premises of GAIL, if the depth of the pipe (from top of pipe) is more than 3 mtr depth from average land surface level. Payment shall be made for quantity in cum to be calculated beyond depth (from top of pipe to surface level) of pipe. Average depth considered up to 6 mtr.   | B00310        | 1500  | Cubic Meter |  |  | 0.00 INR Zero Only |
| 19 | <b>SUPPLY AND FILLING OF SELECTED EARTH/MOORUM (EXCLUDING BLACK COTTON SOIL)</b>  | <b>B00400</b> |       |             |  |  |                    |
| 20 | Supplying and filling selected earth/moorum (excluding black cotton soil) from Contractor's own borrow areas including royalty, with all leads and lifts in low laying areas and filling to required grade and level including watering, compacting at optimum moisture content to 90% of Proctor's density, consolidation and rolling with 8to10 tonne power roller in layers not exceeding 20cm thickness, complete in all respects inclusive of cost of all labour, materials ,tools,tackless etc. as per drawings, specification and direction of GAIL Engineer-In-Charge(EIC)  | B00410        | 1000  | Cubic Meter |  |  | 0.00 INR Zero Only |
| 21 | <b>PUMPING OUT OF WATER</b>   | <b>B00500</b> |       |             |  |  |                    |
| 22 | Pumping out of water including dewatering trenches, ponds, depressions etc. by contractor's own pump with all labour, hoses, consumables, fuel etc. complete as per the direction of the Engineer-in-charge. Note: This item shall be operated only after getting the approval of the Engineer-in-charge. This item shall be included only when Dewatering/ Pumping out of water is not included in any other item. (This item pertains to only such pumping of water as is envisaged at the time of tendering and do not include those that need be covered under contractual risk).From ponds, pits, trenches etc. where volume is not measurable. Note: Unit of measurement is H (hour) which shall be measured as number of hrs. of pump running per horse power (HP) of pump used. | B00510        | 200   | Days        |  |  | 0.00 INR Zero Only |

|                         |  |        |     |            |  |      |               |
|-------------------------|--|--------|-----|------------|--|------|---------------|
| 23                      | REPAIR AND RECONNECTION OF CATHODIC PROTECTION (CP) CABLES ON PIPELINE   | B00600 |     |            |  |      |               |
| 24                      | Repair and reconnection of CP cables on existing Pipelines through Pin Brazing as per drawing, specification and direction of GAIL/PMC Engineer-In-Charge  | B00610 | 100 | EACH       |  | 0.00 | INR Zero Only |
| 25                      | <b>Note: (1)</b> The quantities given above against individual items are indicative and shall not be considered to be binding. The quantities may be increased, decreased or deleted at site at the time of actual execution. Procurement shall be done as per actual site condition, approved construction drawings and as per instruction of EIC. The unit rate shall be operated to work out the final payment to the contractor. |        |     |            |  |      |               |
| 26                      | Total of Section B excluding GST   |        |     |            |  |      |               |
| 27                      | GST (CGST&SGST/UTGST or IGST) in percentage (%) on Total Section B   |        |     | percentage |  | 0.00 | INR Zero Only |
| <b>Total in Figures</b> |  |        |     |            |  | 0.00 | INR Zero Only |