

ITI LIMITED, RAEBARELI
TENDER ENQUIRY

Date: 04-05-2021

To,
M/s

Subject: Supply and Laying of Aluminium Compressed Air Pipe Line required for OFC Manufacturing Capacity Enhancement as per site requirement in OFC Hanger.

Dear Sir,

We are inviting tender for the subject work and request you to submit the same in sealed envelope in our central dispatch / receipt office on or before **18.05.2021 (4.00 PM)** and same will be opened on dated **19.05.2021 (11.00 AM)**.

The terms & conditions of the tender are as under –

1. Technical Specifications – As per Annexure-1
2. General Requirement - As per Annexure-2
3. Bill of Quantity - As per Annexure -3
4. EMD of Rs. 39,700=00 (Rs. Thirty Nine Thousand and Seven Hundred Only) will be deposited in the form of DD by the party/bidder in favour of M/s ITI Limited, Rae Bareli. Failing to submit the EMD, the bid is liable for rejection.
5. MSME firms are exempted from the EMD; however they should submit the relevant certificate of MSME.
6. GST will be extra at actual. Party shall mention the GST (if applicable).
7. Party shall mention tender enquiry no. and due date on top of the envelope and it should be addressed to ITI Limited, Sultanpur Road, Rae Bareli – 229010 (UP) India.
8. Only hard copies of the bid shall be accepted.
9. Party shall fill up the Bill of Quantity (BOQ) as per annexure-3 for supply, erection, commissioning, testing and synchronization of the complete system for smooth working of the system.
10. Party / bidder shall quote the rates inclusive of all charges except GST. The rate shall be quoted for FOR ITI Rae Bareli basis. GST must be indicated separately (if applicable). Also confirm that documents will be issued for claiming GST.
11. Bid shall remain valid for 90 days.
12. This above enquiry is also available on our website www.italtd-india.com and govt. website www.eprocure.gov.in.
13. Bidder shall mention their profile like name of firm, office and work address, FAX, Phone, e-mail id, contact person, category of firm (Small / Medium / Large, Dealer, Distributor and Manufacturer etc.), company registration number, year of establishment, annual capacity (product, quantity, value in Rs.).
14. Bidder shall provide their companies Income Tax Permanent A/C no. and GST no..and submit the signed copy of the same.
15. Only the vendors already approved by designated committee of ITI Ltd. Rae Bareli may apply against this enquiry. New OEM / their authorized dealers may be considered for future cases.
16. Open tenders, tenders not super scribed with our enquiry no. and due date on the top of the envelope) and / or tenders which are received late are liable for rejection.

Ref: RB/MPD/PM/GC02/2021/C

17. Loading of Payment factor –

SN.	PAYMENTS TERMS	LOADING FACTORS
1	NORMAL 60 DAYS	NIL
2	NORMAL 30 DAYS	1.25% ON LANDED COST
3	COD/ON DELIVERY/THROUGH BANK	2.5% ON LANDED COST
4	PROFORMA INVOICE	3.75% ON LANDED COST

Thanking You

For ITI Limited, Rae Bareli

(S.K.Mukherjee)
Er. (PM)MPD

Technical Specification of Compressed Aluminium Air Pipe Line

1. Scope of Work -

Supply, Fabrication, Erection & Commissioning, testing of compressed air piping, fittings, valves etc. with necessary supports, as per relevant standards for Compressed Aluminium Airline. The scope includes the following:

- Supply of Materials
- Fabrication and Erection of the pipeline and of pipe support structures as per site requirement.
- Installation of Ball Valves, Pressure Gauges etc.
- Pneumatic testing of the laid pipelines at 10 Bar pressure
- Integration of laid Aluminium Air Pipe Line to another existing Aluminium Compressed Air Pipe Line with a suitable ball valve.

2. Description of the System –

- 2.1 The system shall be provided with all necessary aluminium piping, fittings, isolating and stop valves, down take pipes extensions, connections and misc fittings. The air pipeline shall generally run over the head position inside shop at height stipulated normally along the structure / column and shall be clamped on support bracket to be fixed on the column/beam girder etc.
- 2.2 The down take shall be taken from the main header pipeline through a Quick Assembly Bracket with swan neck connection which will restrict main line moisture coming in drop line.
- 2.3 The down take connections shall be running vertically and terminated with ball valve, reducer and suitable nipple to connect PU tube (push fit) of 8 mm / 12 mm diameter as per site requirement. The down take pipes shall be properly fixed and clamped. Air drop is to be provided at a height of approx. ½ meter above ground level.
- 2.4 Colour code of the piping shall be sky blue.
- 2.5 Total Nos. of Drop Lines to be provided – Twenty Four (24)
- 2.6 The design of pipe line network should be as such that the pressure & volume of the air should be uniform and as per requirement.
- 2.7 The aluminium based piping shall be non-corrosive and with least pressure drop, light weight , anodized , leak proof , flexibility for reusability.
- 2.8 Any civil & structural work wherever required and its repairing at original position shall be done by the party / bidder.
- 2.9 Party / bidder shall perform Pneumatic testing at required CFM and pressure for 36 hours of all Fabricated & Erected Piping for Air tightness at 10 bar and no leakage should be observed. All equipment, machinery, apparatus & materials required for carrying out the test shall be arranged by the party.
- 2.10 The air circuit of individual machine should have provision to isolate it from the Main pipe network and should be easily accessible when machine is not in operation.
- 2.11 Whole pipe lines which run across the machines will not have any welding joints for safety and accuracy.

3. Design Parameters, Scope of Supply & Technical Specifications –

a) Design Parameters:

- i) Operating pressure : 8 Bar
- ii) Peak Max Temperature : -10°C to + 60°C
- iii) Continuous Service : 10°C to 45°C
- iv) Plant Testing Pressure : 10 Bar
- v) Pressure Drop : < 5 % of supply Pressure

- b) All the materials, tools, accessories etc. required for fabrication, erection & commissioning, testing of compressed air piping, fittings, valves etc. with necessary supports, as per relevant ISO/BIS/IS certification shall be provided by the party / bidder.**
- c) ITI will only provide work space, electricity & water supply for execution of work. Rest all arrangement is to be done by the party / bidder.**
- d) Provision of installation of Pressure Gauge Bottom Mounted with fittings as per site requirement.**

Main Header Rigid Al Pipe of OD 40 mm x 37 mm ID

Sub Header Rigid Al Pipe of OD 25 mm x 22 mm ID

24 nos. Vertical Drop Line (Rigid Al pipe of OD 25 mm x 22 mm ID

e) Technical Specifications -

- Pipe – Extruded Aluminium, Rigid, Pipes shall be resistant to corrosion, mechanical shocks & thermal variation, Clean Air, Optimum Flow Rate performance, Suitable for Compressed Air / N2.
- All pipes and components shall be non-flammable with no propagation of flame.
- Pipe Manufacturing Standards – ISO/BIS/IS Certified.
- Pipe Colour – Blue (RAL 5012 / BS 1710).
- Pipe Painting - QUALICOAT certified surface finish.
- Pipe Sealing – NITRILE & EPDM Seals.
- Pipe Joining – External Threading not allowed to join pipe corners, Use only push in technology.
- Quick Assembly Bracket with Swan Neck Connection - Quick assembly bracket with swan neck connection which will also restrict main line moisture from coming in drops.
- Pipe Support – Polyamide with SS fastener
- Pipe to Fitting Joint – Push Type / Threaded Type (Leakage Proof)
- Pipe Joints – CE certified with factory test certificate and made of special polymer which can take pressure of 25 Bar.
- Fixture Accessories – Galvanised Steel – Brass
- Pressure Gauge – Bottom Mounted with fittings, Pressure Gauge Range 1 to \geq 10 Bar, Diameter of Dial : 4 inch
- All the materials required for erection of Pressure pipe line must be ISO/BIS/IS certified and party / bidder must provide ISO/BIS/IS certified for the same at the time of submitting the tender.

General Requirement - Compressed Aluminium Air Pipe Line

- 1) The party / bidder must be a reputed manufacturer/dealer/supplier of Compressed Aluminium Airline pipes and fittings and the latest authorization certificate from the OEM shall be submitted by the party / bidder.
- 2) After sales service and spares availability shall be ensured by the party / bidder.
- 3) The party / bidder shall arrange and provide all consumables / accessories for erection, commissioning and testing of the compressed air pipe line at site and as per site requirement.
- 4) All the items required for completion of the work but not indicated in the BOQ shall be supplied and installed by the party free of cost.
- 5) All tools and tackles will be arranged by the party / bidder for execution of the work.
- 6) The party / bidder shall warranty / guarantee the material and workmanship of the entire system for a minimum period of 24 months from the date of commissioning and final acceptance.
- 7) The party / bidder shall depute its engineer(s) for complete erection / commissioning and testing of the pipe line system at our works. The engineer(s) will train our officials for operation and routine maintenance.
- 8) Vendor shall strictly use steel scaffolding while working at height (>1.8m) and shall also bring necessary personal protective equipments like safety shoes, hand gloves so as to work safely.
- 9) Packing, Unpacking, loading, & unloading of items at ITI Rae Bareli shall be the responsibility of party / bidder only.
- 10) All precautions shall be taken by vendor while carrying out air leak test for the pipe joints at site.
- 11) All the supplied items should comply the related ISO/BIS/IS standards where ever applicable and adequate certificate for the same has to be made available at the time of bid submission.
- 12) Datasheets of all materials with make shall be submitted by the party / bidder along with the technical bid supported by the relevant catalogue / leaflet.
- 13) P & ID for the entire compressed air line from tapping point to end connection shall be submitted by the party / bidder after completion of the work.
- 14) The measuring instruments like pressure gauge etc. installed along with the compressed air piping system shall be duly calibrated by recognized agency and calibration certificates shall also be provided by the party / bidder.
- 15) Party / bidder shall ensure that all supply, erection, commissioning, testing & synchronization of the complete system in their scope which will give smooth working of the system.
- 16) ITI will provide free access to work space, electric and water supply for execution of the work.
- 17) Party / bidder shall provide point wise compliance for Annexure-1 & Annexure-2.
- 18) All the work shall be carried out in G-shift (i.e. 9:00AM to 05:00PM) in office days only in order to facilitate the inspection If required, party / bidder may be permitted to work after 05:00PM.

- 19) Payment terms:
 - 50% of work order value shall be paid after delivery of materials.
 - 50% of work order value shall be paid after Installation & Commissioning of Pipe Line.
- 20) The EMD shall be returned to all the parties after release of work order to successful tenderer.
- 21) Successful Tenderer shall have to submit a security deposit in the form of Fixed Deposit/Demand draft/ Bank Guarantee and shall be returned after warranty period.
- 22) Security deposit shall be 5% of work order value that shall be submitted after successful installation and commissioning.
- 23) Penalty / LD Clause: It will be applicable @1% per week subject to maximum of 10% of work order value for delay in work.
- 24) Period of completion- Work as per BOQ will be completed within 01 month from the date of receipt of work order.
- 25) Site clearance will be the entire responsibility of the party / bidder.
- 26) The company reserve the right the reject any or all tenders without assigning any reason thereof.
- 27) The site where the work is to be carried out is situated inside the premises of OFC area of ITI Ltd.
- 28) ITI Ltd. will have no responsibility towards any losses suffered by the party / bidder during execution of the work.
- 29) During the execution of the work if the site gets spoiled the party / bidder shall have to made up / repair of the same.
- 30) ITI Ltd will have no liability to allocate any storage facilities for accommodating staff / items of the party / bidder.
- 31) The party / bidder shall have to observe all the security by – laws.
- 32) Party / bidder may visit the site and assess the scope of work & the site condition before quoting the rates. Bidder must access the requirement of material like bends and end plugs etc. NO claim on account of lack of knowledge will be entertained later on.
- 33) Quantities mentioned in the Bill of Quantity are estimated quantities and it may increase or decrease as per actual site requirement. The payment shall be made as per actual requirement only.
- 34) Vendor shall strictly use necessary personal protective equipments like safety shoes, hand gloves etc. so as to work safely. ITI Limited will not bear any responsibility for any accidents during execution of the work.
- 35) Keeping in view of pandemic COVID-19 attack, necessary mask shall be arranged by the party for their workforce.
- 36) Any dispute will be subjected to Rae Bareli jurisdiction.

Bill of Quantity (BOQ)

Subject: Supply and Laying of Aluminium Compressed Air Pipe Line required for OFC Manufacturing Capacity Enhancement as per site requirement in OFC Hanger.

Sl.	Work Description	Qty. (Approx.)	Rate (in Rs.)	Amount (in Rs.)
1	Supply & Laying of 40mmX37mm ID Header Pipe Line horizontally parallel to ground at a height of approx. 3.5 mts as per site requirement	250 mts		
2	Conversion of 25mmX22mm ID Header to 40mmX37mm ID Header Note – The Removed Header of 25mmX22mm ID and its 02 drops of 25mmX22mm ID shall be used for extending existing N2 header of 25mmX22mm ID and making 02 drops of N2 Line required for Colouring machine. The Work is to be carried out by the party / bidder only.	80 mts		
3	Supply & Laying of 25mmX22mm ID Drop Pipe Line from Header pipe line of 40mmX37mm ID vertically having a drop length of approx 3 mts. a) The down take shall be taken from the main header pipeline through a Quick Assembly Bracket with swan neck connection which will restrict main line moisture coming in drop line. b) The down take connections shall be running vertically and terminated with ball valve, reducer and suitable nipple to connect PU tube (push fit) of 8 mm / 12 mm diameter, as per site requirement. The down take pipes shall be properly fixed and clamped.	22 nos.		
4	Supply & Installation of Pressure Gauge as per site requirement in 40mmX37mmID header	02 nos.		
5	Supply & Inter-connection of 40mmX37mm ID header Pipe Line to existing aluminium pipe line header of 40mmX37mm with additional suitable ball valve.	01 unit		
6	Supply & Connection of 05 nos. of ball valve in 40mmX37mm ID header line as per site requirement.	05 unit		
			Total (In Rs.)	
			GST @	
			Grand Total (In Rs.)	

(In Words – Rs.

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(S.K.Mukherjee)
Er. (PM)MPD
ITI Limited, Rae Bareli
Mob. – 9415906049
