

Short Quotation Notice for supply, installation and commissioning of LPG Gas Pipe Line Connections at department of Bio-Chemistry, I.G.I.M.S. – Patna.

No.: IGIMS / BME / REPAIR-MAINT. / 01 / 2019.

1. Sealed Quotations for supply, installation and commissioning with judiciously rates in the physical market places for the stated Category – “ **Installation of LPG Gas Pipe Line Connections**” are invited from the leading manufacturers / authorized dealers / reputed suppliers of the above item and also having “**post purchase cum installation, maintenance, and service**” (also read Annual Maintenance & certification, AMC) facilities in the Patna district of State of Bihar for supply, installation and commissioning at the **department of Bio-Chemistry** of Indira Gandhi Institute of Medical Sciences, Sheikhpura, Patna – 800 014.
2. **Complete and Sealed Quotation in Separate Covers**, mentioning “**Sealed Quotation for Installation of LPG Gas Pipe Line Connections**” in **Bold Letters** in the title of the final envelope are to be send and reached accordingly to the office of the undersigned through Speed Post / Courier Services on or before date and time specified.
3. The **Tender Quotation** so invited from the respective bidders should include **Two Parts: (i) “Technical Quotation Specifications” and (ii) “Financial Quotation Specifications”** placed in separately sealed two inner envelopes and the both should put through within a single large and final sealed envelope. The bidder should clearly mention “**Technical Quotation Specifications**” and “**Financial Quotation Specifications**” in **Bold letters** in the title of their respective envelopes.
4. For decision in choosing the winner bidder out of the tender quotations so received, firstly the envelopes for “**Technical Quotation Specifications**” will be strictly opened and considered; and then the envelopes for “**Financial Quotation Specifications**” will be opened and considered only if the “**Technical Quotation Specifications**” of the respective interested bidders are found fit and justified.
5. Interested bidders are also informed that the said Installation of LPG Gas Pipe Line Connections will have to be accomplished in the college premises in the month of October – November – 2019 and the work must be completed within fifteen days from the date of receipt of work order by the successful bidder. The starting date will be decided by the Institute authority. **Late Work Penalty will be imposed at the rate of Rs. 2, 000/- (Rs. Two Thousand Only) per day for the days of late works, if any.**
6. **The Technical Quotation Specifications should include submission of followings:**
 - a. **The Sketch or Diagram or Design of the Installation of LPG Gas Pipeline Connections** for department of Bio-Chemistry, Indira Gandhi Institute of Medical Sciences, Patna should be proposed and signed by the bidder taking responsibility of the same.
 - b. **At least five years of work experience** in LPG / Oxygen / Nitrogen / CO2 Gas Pipe Line System at any reputed Commercial Houses, and/or Industrial Establishment, and/or Academic Institutions, and/or Large Hospital.
 - c. **Consent letter** on the Annual Maintenance Contract and Certification by the participative bidders.

- d. **Consent letter** for taking over the **Safety Related Responsibility (SRR)** by the prospective bidder/s for each of the forthcoming academic session and at least over the next five years (05 Years).
 - e. **Reputation Certificate** of recent date from the last Served Institution/s.
 - f. **PAN and copies of Income Tax Returns** for the last three years.
 - g. **Copy of Tax Registration Certificate / Trade Tax Registration** and company registration.
 - h. **Affidavit to the effect that the bidder is not blacklisted** by any Govt. agency or has no pending case either Civil or Criminal against them.
 - i. **Security deposit of Rs. 10, 000/- (Rs. Ten Thousand Only; refundable)** in form of **Bank Draft** in favour of "Director, I.G.I.M.S. – Patna" (payable at Patna).
 - j. **Tender document fee of Rs. 2, 000/- (Rs. Two Thousand Only; Non-refundable)** in form of **Bank Draft** in favour of "Director, I.G.I.M.S. – Patna" (payable at Patna).
7. The "**Financial Quotation Specifications**" should include submission of the following:
- a. The rate to be quoted in the prescribed price format as per BOQ attached.
 - b. The terms & conditions for the Recurring Costs and Non-recurring Costs to be incurred in the future academic session with respect to **Annual Maintenance & Certification** by the bidder/s. The rate to be quoted in the prescribed format.
 - c. The bidders are also warned that higher AMC costs for either recurring or the non-recurring category will negatively impact about the credibility as well as quality of the LPG Gas Pipe Line Installation work by the interested bidder.
 - d. The bidder may perform the installation work either by welding process or by screw fitting process.
8. The interested bidders are invited and requested to visit the concerned department (Department of Bio-Chemistry, Medical College Building) Laboratory Rooms for physical verification and scrutiny of the work place. There should be four (04) burners at each table.
9. Incomplete Quotations with insufficient information, if received, will be summarily rejected. On any aspect regarding the purchase, the decision of Institute authority is final.
10. Interested bidders are also mandatorily asked to provide minimum one year warranty on the product and complete works to be done against this Quotation Notice as an essential criterion for submitting the quotation. The same warranty as agreed upon should be mentioned in the purchase bill. Quotation price should include the assembling, delivery, and installation of the LPG Gas Pipe Line Connections System, and all other incidental charges within the quoted price.
11. The quantity mentioned in the BOQ are tentative in nature and calculated based on the shorted route from manifold as agreed. Quantity of items may increase or decrease at the time of execution of work based on the manifold position.

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12. The quoted rates of various items must be valid for a minimum period of one year as the same work is likely to be executed in other Laboratory (i.e. Department of Microbiology / Pathology) in the same financial year.
13. The security deposit of the unsuccessful bidders will be returned to them at the earliest after expiry of final bid validity and latest on or before the 30th day after the award of the contract without any interest. Non- submission of sufficient EMD along with the Technical Bid shall be one of the primary reasons for rejection of the offer in the first round.
- 14. SCOPE OF WORK BY CONTRACTOR :**
- a. In general, the scope of work of contractor shall include the following without being limited to the same. Scope of supply of various materials for fabrication and erection shall be as per details given in special conditions of contract.
 - b. Supply of piping materials to work site/shop, fabrication and erection of all piping system in accordance with this specification, enclosed specifications for pipes, valves, painting, etc. applicable drawings and standards and also necessary modifications which shall come during erection.
 - c. Fabrication and erection of pipe supports, supporting fixtures, brackets,. as per pipe support standards and drawings and instructions of Engineer-in-Charge.
 - d. Underground piping including covering materials, excavation and backfilling. Anchor Block / insert lock, supports, and pedestal (concrete) pipe sleepers.
 - e. The contractor shall also bear the cost of repair, changes, replacement, etc. due to noncompliance with the standards, codes or due to disregard of instructions given by Superintending Engineer (Bio-Medical).
 - f. Flushing, cleaning and testing of all piping system.
 - g. Providing two coats of red oxide zinc chromate primer and oil painting on all MS/CS pipes/structural supports, etc.
 - h. Any other items as required in the drawings/specifications to be fabricated and erected from pipe / plate materials.
15. Sealed Quotations must reach to the Office of **Superintending Engineer (Bio-Medical), I.G.I.M.S., Sheikhpura, Patna - 800 014** (situated at 1st Floor of Ward Block, Near O.T. Complex) up to 23 / 10 / 2019 at 4: 00 P.M. through Speed Post / Registered Post / Courier Services. The quotations to be received will be opened in presence of the bidders on 24 / 10 / 2019 at 11: 00 A.M. in the office chamber of **Superintending Engineer (Bio-Medical), I.G.I.M.S., Sheikhpura, Patna - 800 014** (situated at 1st Floor of Ward Block, Near O.T. Complex).
16. The Institute reserves the right to accept / reject any or all quotations without assigning any reasons.

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17. TECHNICAL SPECIFICATIONS OF PIPE, PIPE FITTINGS AND VALVES : LPG Manifold System and Piping Components :

LPG Manifold system shall consist all components shown in drawing and makes and specification as per below. System complete in all respect from Design to use with Hydra and Pneumatic Test Certificates and all OEM test certificates for brought out items.

16.1 M.S. fabricated support framework for in Cylinders and Manifolds etc:

The cylinders will be fitted to M.S. fabricated support framework fabricated using ISMC 75 x 40, ISA 65X65X5. Framework shall be designed to hold 02Nos +02 Nos Industrial LPG Cylinders. The framework shall be of knockdown type, assembled using M.S. fasteners. It shall be freestanding, floor-mounted type with footplates fixed to the floor by anchor bolts and painted Black Colour. Frame will also consist of Chain to hold cylinder firmly.

Construction : Arc Welding and Bolting.
Finish : One Coat of Primer & two Coates Synthetic enamel
Paint. MS. Channel /Angle/ Plate as per IS : 808/1730 / 1731
Material Used ;

16.2 Manifold Header:

Gas Service : LPG
Working Pressure : 10.50 Bars
Hyd. Test Pressure : 15.75 Bars
Operating Temp. : 50 Degree C
MOC : Pipe: SS 304, 1.5" NB, SCH 40 Seamless Pipes as per
ANSI B 36.19 : Fittings from SS 304 Bar stock./ Machined as per requirement
Construction : TIG Welding for Header, Tee pieces Elbows, Cross Pieces etc.
Testing Hydraulic & Pneumatic Testing
Type 10 x 2 Cylinders.
Welding Code ASME B 31.3/ 31.8

16.3 Flexible Hose:

Make COMAP/ Surksha- HP/ United works as per Is standard
Material of construction Nylon Braided Hose
Working Pressure 10 Bars.
Size 1/4" size.
Length 3 Feet long.

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Port Isolation Valve for Manifold :

Make COMAP/ Vanaz/ United Works , Messers
Material Brass
Size 3/8 " BSP or as required
Type Needle / Ball Type
Working Pressure 10.5 Bars

Main and Manifold Isolation Valve for Manifold :

Make : COMAP/Shenco / United Works, Messers
Material: Brass
Size: 3/8 " BSP or as required
Type: Ball
Working Pressure: 10.5 Bars

Pressure Gauge:

Make: Forbes Marshall, WIKA, Warea Instruments,
Gauge Bourdon
Type: Bourdon tube Pressure gauge
Dial size: 100 MM
Range: 0 to 280, 0-16 kg/cm²
Accuracy:- 1:1% of full-scale division
Bourdon tube: SS 316
Thread: 1/2" NPT/ B.S.P (Male)
Mounting: Direct Mounting
Connections: Bottom connection
Housing: Weather proof housing
Pointer: Micro type adjustable pointer
Standard: **Indian Or European or equivalent Standard**

Pressure Gauge and Vent Isolation Valve:

Type: Needle type
Make: COMAP/ Vanaz/ United Works Vanaz , Messers
Material of construction Brass
Size As per Standard.
Working Pressure 10.5 Bars

Pressure Regulator:

Make: COMAP/ Vanaz/ Nirmal Industries . United Works
/ or Equiv.
Messer
Type: Single Stage
Body and Cap: Brass
Diaphragm and Internal Trim: as per Manufactures standard/ Rubber
Inlet Pressure: 0 to 10.5 Bars.
Outlet pressure: 0.3 to 10 Bars
Gas Service: LPG
Flow Rate: 200 NM³ / Hr.
Inlet connections: 1 " BSP Or as required
Outlet / inlet connections: 1 " BSP Or as required
Standard: As per Manufactures Standard.

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16.4 Outlet Isolation Valve Low Pressure :

Service: LPG
 Type: Ball Valve
 Make: COMAP/ Vanaz/ United Works , Messer
 SHENCO / GG / or Equiv.
 Valves / BDK VALVES/AUDCO

Material of construction: SS 304/Brass
 Size: 1.5 “/1/2 “ , 1 “
 Op. pressure: 21 Kg /cm2
 Operating Temperature: 50° C
 Design & Type: BS 5351 & Two/Three piece Construction
 End to End Dimensions: As per ASME B 16.10
 Type of Operation: Manual, Plastic Coated Hand lever


Inside Lab LPG Pressure Regulators :

Make: COMAP/ Vanaz/ Nirmai Industries/ United Works
 or Equiv.
 Messers
 Type: Single Stage
 Body and Cap: Brass / Al
 Diaphragm and Internal Trim: Brass/ Al
 Inlet Pressure: 0 to 10.5 Bars.
 Outlet pressure: 0.3 to 10 Bars
 Gas Service: LPG
 Inlet connections: ½ “ NPT F
 Outlet / inlet connections: ½ “OD Tube

18. Bill of Quantity / Price Bid Format

Sl. No.	Description	Unit Price	Qty.	Amount
For Manifold				
1.	Manifold 4 Cylinders complete with NRV & Tail Pipe Connections.		1 Set	
2.	Pressure Gauge 4” Dial Size		02 Nos.	
3.	Coupling		60 Nos.	
4.	MS Pipe Class C, Size ½” / Elbow / Tee / Socket / Clamps		80 Mtrs.	
Outside Manifold to Laboratory Site:				
1.	MS Pipe Class C, Size ½” / Elbow / Tee / Socket / Clamps		120 Mtrs.	
2.	L&T Valves		06 Nos.	
3.	Pressure regulator		06 Nos.	

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4.	NCV		10 Nos.
5.	Nut for Burners		50 Sets
6.	2 Terminal		05 Nos.
7.	4 Terminal		15 Nos.
8.	Burner Torch complete with Nozzle & Accessories		61 Sets.
9.	Pipe Clamp		40 Nos.
			Add Freight @....
			Add GST @.....
			Grand Total
(Rs.....; Inclusive of all Taxes and Freight)			

Note:

1. The quantity mentioned in the BOQ are tentative in nature and calculated based on the shorted route from manifold as agreed. Quantity of items may increase or decrease at the time of execution of work based on the manifold position. The payment is to be done based on the actual measurement after successful completion of work.
2. The quoted rates of various items must be valid for a minimum period of one year as the same work is likely to be executed in other Laboratory (i.e. Department of Microbiology / Pathology) in the same financial year.

Annual Maintenance Contract Format:

Description	AMC Rate
1 st Year Annual Maintenance contract with all spares and consumables (including diaphragm, washers, o-rings, pipe etc.) after expiry of warranty of 1 year.	
2 nd Year Annual Maintenance contract with all spares and consumables (including diaphragm, washers, o-rings, pipe etc.) after expiry of warranty of 1 year.	
3 rd Year Annual Maintenance contract with all spares and consumables (including diaphragm, washers, o-rings, pipe etc.) after expiry of warranty of 1 year.	

Note:

1. GST will be provided on quoted AMC rate as applicable.
2. Four maintenance visits per year for preventive maintenance and supervision are essential.
3. Breakdown Visits: All as and when required within 48 hours.
4. The rate of AMC to be quoted should include labour charges, spares, accessories, and all type of consumables (i.e. tubing, washers, O-Ring, Diaphragms etc.). No amount is to be paid by the Institute towards maintenance of the complete system apart from AMC amount per year.
5. Payment is to be made on half yearly basis on successful functioning of the system.
6. While calculating the total unit price of the item / system to be procured, expenditure to be incurred in maintenance of the quoted item / system including all spare parts for a total period of three years after expiry of the warranty period of one year shall also be taken into consideration. Accordingly, it is mandatory for the bidders to submit the rate for Annual Maintenance Contract (with spares and consumables) for a minimum period of three years after the expiry of warranty period of three years.

Director,
I.G.I.M.S. – Patna.

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