

KOLLAM DISTRICT COOPERATIVE HOSPITAL SOCIETY LTD Q 952

Palathara, Kollam

Pin: 691020

TENDER DOCUMENT

For

RENOVATION OF MEDICAL GAS PLANT

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1. INVITATION FOR TENDER

1. Sealed tenders are invited from reputed and established contractors for supply, installation and commissioning of Medical Equipments For NS Memorial Institute of Medical Sciences (NSMIMS) under Kollam District Cooperative Hospital Society Ltd Q 952.
2. The method of submission of tender, amounts of Earnest Money/Security Deposit and General Terms and Conditions applicable to contract has been mentioned in **GENERAL TERMS AND CONDITIONS (Page No 8)** The work is to be performed strictly as per parameters/technical specifications given In Tender document. The Performa for submission of tender has been given in **Technical Information** (for Technical Bid) and **Commercial Bid** (for Commercial Bid) to this Notice Inviting Tender.
3. **Schedule of Tender**

Date of Release of Tender	:	26/06/2023, 10 AM
Last Date & Time of Issue of Tender	:	01/07/2023, 1 PM
Last Date & Time of Submission of Tender	:	07/07/2023, 2 PM
Date & Time of opening of Tender	:	07/07/2023, 3 PM
Date of demonstration of items quoted	:	As and when required
4. Amount of Earnest Money to be deposited as per **Clause 2** of **General Terms and Condition** in the shape of Demand Draft only.
5. The tender document can be downloaded from the website (www.nshospital.org). Demand Draft of **Rs. 5000 + GST (Five Thousand only)** in favour of Secretary , Kollam District Co Operative Hospital Society should be submitted along with tender documents. The amount can also be deposited at Hospital on any working day from the date of release of Tender.

6. The tenders received after the scheduled date and time will be rejected outright.
7. Any tender received without Earnest Money as specified in tender documents shall not be considered and shall be summarily rejected.
8. The validity of the offer shall be 60 days after the date of opening of the tender. If any bidder withdraws his tender within the validity period or makes any modifications in terms and conditions of the tender and/or rates after submission of tender which are not acceptable or does not start the work within stipulated period from the date of issue of letter of acceptance, then tender inviting authority shall without prejudice to any other right or remedy, be at liberty to disqualify the tenderer and shall be debarred from bidding in case of re-invitation of the tenders.
9. Tenderer can submit tenders only on the documents downloaded from website.

2. DETAILS OF WORKS

SL. No	Description	Estimate of Work
1	Upgradation of Oxygen Control Panel and Manifold	11,00,000/-
2	Upgradation of Air Compressors with Tank	22,00,000/-
3	Upgradation of Vacuum Compressors with Tank	11,00,000/-
4	Pipeline Works from Service Block to Main Block	30,00,000/-
5	Medical Gas Plant Rearranging	1,00,000/-
	Total	75,00,000/-

3. PRE-QUALIFICATION CRITERIA - DOCUMENTS REQUIRED

(Documentary Proof to be submitted)

1. The tenderer should have an annual turnover of Rs 1 cores each in the previous three financial years
2. The tenderer should submit declaration of work completed/satisfactory report from any 3 organisations of latest works with highest values.
3. Earnest Money Deposit for Rs 50,000/-
4. Bio data of the Partners / Directors, key personnel along with details regarding the works executed during last 5 years
5. Audited balance sheet of the firm for the previous financial year.

On the Date of opening the cover containing technical bids will be opened and Bid security submitted will be verified. The list of bidders who submitted bids will be announced through a Minutes of meeting. The evaluation of bids will be then conducted.

1. EMD's of unsuccessful tenderers shall be returned within a week of opening of the tender and that of the successful tenderer on issuance of the work order
2. The undersigned reserves the right to reject any or all tenders without assigning any reasons thereof.

4. GENERAL TERMS AND CONDITIONS

1. Parties:-

The parties to the Contract are the contractor (the tenderer to whom the work has been awarded) and N.S Memorial institute of medical sciences.

2. Earnest Money:

Earnest Money Deposit (EMD) of Rs. of 50,000 (Fifty Thousand only) in the form of demand draft drawn in favour of Secretary Kollam District Co Operative Hospital Society Ltd Q 952 must be deposited along with the tender and attached with Copy of PAN Number issued in favour of the firm and any other required information. The earnest money so deposited shall not earn any interest. Tenders without earnest money will be outright rejected.

3. Preparation and Submission of Tender:

THE TENDERER SHOULD DOWNLOAD THE TENDER DOCUMENT FROM WEBSITE AND ADD ALL DETAILS DIGITALLY AND SUBMIT THE HARDCOPY WITHIN THE STIPULATED TIME. THERE IS NO NEED TO SUBMIT TECHNICAL BID AND FINANCIAL BID SEPARATELY AND SINGLE BOOKLET WITH TECHNICAL AND FINANCIAL BID DIVIDED BY A BLANK SHEET OF A4 PAPER WILL BE SUFFICIENT.

BOOKLET SHOULD BE KEPT IN A SEALED COVER WHICH IS ADDRESSED TO THE UNDERSIGNED. SEALED COVER SHOULD BE SUPER SCRIBED WITH SUBJECT OF TENDER AND HAVE ADDRESSES OF TENDERER AND TENDER INVITING AUTHORITY. TENDER SUBMITTED DATE AND TIME SHOULD BE MENTIONED ON THE COVER AT THE TIME OF SUBMISSION OF TENDER FORM.

1. In case of partnership firms, a copy of the partnership agreement, or general power of attorney duly attested by a notary public, should be furnished on stamped paper duly sworn of affirmed by all the partners admitting execution of the partnership agreement or the general power of attorney. The attested copy of the certificate of registration of firm should also be enclosed along with the tender.

2. The tenderer should sign and affix his/his firm's stamp at each page of the tender and all its annexures as the acceptance of the offer by the tenderer will be deemed as a contract and no separate formal contract will be drawn. No page should be removed / detached from this tender document.
3. All necessary documents should be submitted along with the Tender Booklet such as Tender Fee DD/Receipt, EMD DD, Prequalification Documents, Compliance Sheet of technical Specifications, Brochures & Datasheets etc.

4. Criterion for Evaluation of Tender:

The evaluation of the tenders will be made first on the basis of technical information furnished in form given in **Technical Bid** and then on the basis of commercial information furnished in form given in **Financial Bid**. The Financial bid of such firms found valid based on technical parameters (as per **Technical Information and Undertaking**) will be qualified for next level. The reasons for selection or rejection of a particular tender will not be disclosed. The award of work will be further subject to any specific terms and conditions of this Tender.

5. Right of Acceptance:

The Tender inviting authority has all rights to reject any tender including of those tenders who fail to comply with the instructions without assigning any reason whatsoever and does not bind himself to accept the lowest or any specific tender. The decision regarding this shall be final and binding.

6. Communication of Acceptance:

Successful Tenderer will be informed of the acceptance of his tender.

7. Security Deposit.

An interest free Security Deposit of 5% of Total Work value shall be deposited in the form of Demand Draft / Bank Guarantee from a commercial Bank. Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations by the supplier including warrantee obligations.

8. Penalty

For delay in completion of work, the liquidated damage @ 1% of order value per week or part thereof subject to the maximum of 10% of the order value shall be deducted.

9. Breach of Terms and Conditions:

In case of breach of any of terms and conditions mentioned above, the Competent Authority will have the right to cancel the work order without assigning any reason thereof, and nothing will be payable by this Hospital in that event and the performance security deposit shall be encashed and contractor will also be debarred from taking part in tendering process for five years period.

- (1) The firm shall not assign or sublet the work or any part of it to any other person or party.
- (2) The tender is non transferable.
- (3) Tenderer has to quote rate including GST.

10. Terms of payment:

- (1) Terms of payment as stated in the Tender Documents shall be final.
- (2) No payment shall be made in advance.
- (3) All payments shall be made by cheque / e-payment only.
- (4) Payment will be done against 3 invoices only. Minimum amount will be 10,00,000/-

11. Unit Rate

Total price includes all duties, Taxes, Transportation expenses, loading and unloading charges and all other expenses connected with installation and handing over in satisfied working condition of the equipment at the site. No additional charges will be paid.

12. Warranty Terms

Standard Warranty 1 year. Warranty is comprehensive and includes all labour, spares, consumable spares and accessories. Any Bidders willing to give additional years of warranty will enjoy added advantage while L1 calculation.

13. Arbitration:

If any difference arises concerning this Agreement, its interpretation on the payment to be made there under, the same shall be settled by mutual consultations and negotiations.

14. Force Mejure:

The vendor shall not be liable for forfeiture of its bid security, performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure. Force Majeure means an event beyond the control of the supplier and not involving the vendor's fault or negligence and not foreseeable.

15. Safety/Site Conditions:

The Contractor shall take full responsibility for the adequacy, stability and safety of all Site operations and ensure that the methods of carrying out the Work and the Work by the Contractor including his workmen, employees, Sub-Contractors and Vendors meet all the necessary safety standards and requirements. In order to fulfill this obligation the Contractor shall appoint a permanent, full time and suitably qualified safety officer for the Site, who shall be responsible for incorporation, implementation and enforcement of all safety measures and requirements for maintaining safe working conditions, safety of manpower and equipment, general safety and security of Site as per the various safety codes and stipulations mentioned in contract documents. The Contractor shall provide Id-Cards (Identity Cards) to each of his worker with designated number & colour only of the card as directed by the Engineer-in-Charge.

The Contractor has full responsibility for maintaining the Site in good and clean condition and removing all trash and debris on a daily basis to the satisfaction of the Engineer.

Additional Safety Regulations: The Contractor shall continuously maintain adequate protection for the Work against fire and other hazards properly and shall protect the Employers /Engineer-in-Charges property from damage or loss during the performance of this Contract. The Contractor also shall adequately protect property adjacent to the Work. The Contractor shall take all necessary precautions for the safety of its employees, Subcontractors and the Vendors performing the Work and later phases of the Work and shall comply with all applicable safety laws and regulations to prevent accidents or injury to persons on, about, or adjacent to the Site. The Contractor shall be responsible for coordinating a safe working programme with the Engineer. Such a programme shall include, and the Contractor shall be responsible for maintaining, the following safe working conditions and practices:

All combustible material, food matter, garbage, scrap, and other debris generated during the performance of the Work shall be collected and removed from the Site on daily basis. Arrangements for scrap disposal should be discussed with Field Engineers.

An adequate number and type of fire extinguishers and sand buckets shall be provided at the Site for fire control and shall be kept/maintained in satisfactory and effective working condition

at all times.

The Contractor and its employees, laborers and subcontractors shall strictly obey all "No Smoking" restrictions.

The Contractor shall not operate or use or manipulate utilities already established at the Site without the Engineer- in-Charge's prior written approval.

The use of intoxicants or unlawful drugs at the Site, in any degree, shall be strictly prohibited. The Contractor shall rigorously enforce this regulation. When overhead work is in progress in or around an occupied area, signs to denote such work prominently displaying "Overhead Work" shall be used and a barricade shall protect the Dusty work, such as concrete breaking or demolition, in or near occupied areas, shall proceed only after wetting down the area and taking steps necessary to prevent dust free penetrating occupied areas and creating nuisance.

Care shall be taken not to block any door, passageway, and safety exit, fire-fighting equipment, or safety equipment with materials or equipment. Materials must be piled, stacked, or stored in a neat and orderly manner. All stacking the site, whether inside or outside a building, shall be parallel to or at right angles to the building line or fence. The stacking of materials shall be organized on daily basis.

When noisy operations of a prolonged nature are necessary in or near an occupied arrangements must be made with the Engineer-in-Charge for scheduling to minimize nuisance in the occupied area.

All critical and dangerous locations / areas at site shall be marked with caution sign indications and directions in the form of well-designed and uniform signage, the design signage shall be approved by the Engineer

5. SPECIAL TERMS AND CONDITIONS

1. In case the firm fails to supply the items within specified delivery period, the material will be procured from any other competent agency and the difference of cost, if any, will be recovered from pending bills of defaulting firm by issuing notice and necessary action for blacklisting the firm also be taken.
2. No request for increase in the rates will be entertained during the period of contract nor will the firm raise the same.
3. All Equipments/Accessories supplied by the firm should be as per specifications mentioned in the tender document; sub-standard material will not be accepted at all.

6. TECHNICAL INFORMATION

1. Name of the Tenderer/Concern: _____
2. Address (with Tel. & Mob. No.): _____

3. Nature of the concern (i.e. Sole Proprietor or Partnership firm or a Company or a Government Department or a Public Sector Organization.)(Attach Proof.)
4. Registration Number of firm _____
5. PAN Number of Tender/Concern: _____
6. Sale Tax/VAT registration certificate and TIN Number _____
7. Annual turnover of firm _____ (Attach Proof.)
8. Whether each page of Tender have been signed and stamped _____ YES / NO
9. Details of experience _____
(Refer Pre-Qualification Criteria).
10. Details of Civil suits/Litigation, if any, in the contracts executed during the last 5 years/being executed. If yes, please furnish the name of the contract employer, nature of work, contract value, work order and brief details litigations. __
11. Detail of EMDs :-

Tender	Name of Bank	Draft No. & Date	Amount [Rs.]
Renovation of Medical Gas Plant			_____

12. Any other information important in the opinion of the tenderer.

Dated :

(Signature of Tenderer

Place :

With stamps of the firm)

7. UNDERTAKING

1. I/We undertake that I/we have carefully studied all the terms and conditions and understood the parameters of the proposed work.
2. I/We also undertake that I/we have understood the terms and conditions mentioned in the Tender and shall execute the work strictly as per the terms and conditions mentioned therein in the Tender Form.
3. I/We further undertake that the information given in this tender are true and correct in all respect and I/we hold the responsibility for the same.

Dated:

(Signature of Tenderer

Place :

With stamps of the firm)

8. TECHNICAL SPECIFICATIONS

1) COPPER PIPES

The copper pipes shall be manufactured from phosphorous de-oxidized non-arsenical copper of grade CW024A (Cu-DHP), manufactured EN 13348:2008 to metric outside diameters and having mechanical properties, pipes shall be of R250 (half hard) temper.

Pipes shall be degreased suitable for oxygen use and cleanliness is to be maintained by filling each pipe with dry, clean, oil and oxygen free nitrogen, fitting suitable end caps and protectively wrapping. Solid drawn, seamless, deoxidised, non- arsenical, half hard, tempered and degreased copper tubes manufactured to metric outside diameters and should have mechanical properties in accordance with HTM 02-01 and conforming to EN13348:2008.

All indigenous copper pipes should be inspected and certified by Third Party Inspecting Agency Lloyds' Register Services before dispatch and the pipes should be delivered capped at both ends. Imported Copper pipe should have equivalent certification. The pipes should also be accompanied with manufacturer's test certificate for the physical and chemical composition. Copper Fittings should be as per HTM 02-01. All plastic saddles should have brass screws.

Medical Gas Pipeline Fittings shall be end feed type, manufactured from the same grade of copper as the pipes and be in accordance with the requirements of BS EN 1254-1:1998 Part 1. The manufacturing company should comply with BS EN ISO 9001:2000. Fittings should be factory degreased suitable for oxygen use. Fittings should be certified for medical use and accompany with oil analysis certificate and conformity certificate indicating suitability for medical use. Copper fittings shall be made of copper and suitable for a steam working Pressure of 17 bar and especially made for brazed socket type connections.

2) VALVES – LINE VALVES

Line Valves shall be provided for use in plant rooms and to facilitate the isolation of areas or areas where area zone valve are unnecessary. These shall be of the ball valve type and shall be constructed of a nickel plated brass body, PTFE seats and brass chrome plated ball. The valve shall be operated by a manual operating lever by 90° turn. All medical gas line ball valves shall provide a full bore flow and shall be cleaned for oxygen service and fully tested. The valve assembly shall terminate in copper stub pipes to enable brazing directly into the distribution system using the flux less brazing technique. Line valves shall be located in readily accessible

areas of ducts and shafts, however care should be taken to ensure safety to prevent danger from leakage. Line valve installation should be carried out as per HTM 02-01 standards.

INSTALLATION & TESTING

Installation of piping shall be carried out with utmost cleanliness. Only pipes, fittings and valves, which have been degreased and brought in polythene sealed bags, shall be used at site. Pipe fixing clamps shall be of non-ferrous or non-deteriorating plastic suitable for the diameter of the pipe. Where pipes are cut on site, the wheel cutter should be used (avoid using hacksaw blade) and should be cut square and de-burred, re-rounded and cleaned off before use.

All pipe joints shall be made using flux less brazing method.

Heat/Flame Source: Brazing shall be carried out using Oxy-acetylene/ Diluted Acetylene flame source capable of achieving brazing temperatures of above 600 degrees and below the melting point of the base metal. Liquid Petroleum Gas (LPG) should not be used for brazing of copper pipes.

Copper to Copper Brazing – should be made using a silver-copper-phosphorous brazing alloy CP104 (5% Silver Brazing Filler metals Rod) to BS EN 1044-1999, no flux to be used.

Copper to Brass Brazing – should be carried out using AG 203 (43% Brazing Filler metal Rod) to EN 1044 with an appropriate flux.

Brazing of Copper to brass should not be carried on site and the flux residue should be chemically removed and if necessary the complete assembly is cleaned and degreased for oxygen service.

Oxygen Free Nitrogen (Inert Gas Shield) Purging – Brazing should be carried out using Oxygen free Nitrogen as an internal inert gas shield to prevent the formation of oxides on the inside of the pipes and fittings. Oxygen free nitrogen should be supplied to the inside of the pre-assembled, un-brazed pipe work while brazing through a pressure regulator and flow controller of flow regulating device. This method leaves a bright, clean bore. A slight burnishing may occur in some cases; however purging is still required to remove internal shield gas and the other particulate matter not associated with Brazing operation. Nitrogen purging is not required for AGS disposal systems.

Capping – Sections of pipeline should be capped as soon as they are completed so as to prevent the ingress of debris.

Adequate supports shall be provided while laying pipelines to ensure that the pipes do not sag. The spacing of supports shall not exceed 1.5 meter for any size of pipe. Suitable sleeves shall be

provided wherever pipes cross through walls / slabs. All pipe clamps shall be non-reactive to copper.

After erection, the pipes should be flushed with dry nitrogen gas and then pressure tested with dry nitrogen / Medical Air at a pressure equal to twice the working pressure for a period of not less than 24 hours. All leaks and joints revealed during testing should be rectified and re-tested till the pressure in pipes stands for at least 24 hours.

Installation, Testing and Commissioning of Medical gas pipelines should be carried out as per HTM 0201 standards.

All the piping system should be tested in the presence of authorized representative of the user institute or tender inviting authority.

COLOUR CODING

All exposed pipes should be painted with two coats of synthetic enamel paint and colour codification should be as per ISO standards.

Oxygen Line – White

Nitrous oxide – Blue

Air Line- Black and White

Vacuum Line – Yellow

After completion of work, MGPS Diagram should be prepared and submitted.

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PART- B

FINANCIAL BID

**N.S Memorial Institute of Medical Sciences
(A unit of Kollam Dist. Co-operative Hospital society Ltd., No. Q.952)**

WORK NAME: Renovation of MGPS Plant

BIDDER NAME:

PRICE SCHEDULE:

This BOQ template must not be modified replaced by the bidder and same should be submitted as hardcopy after digitally filling out the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the bidder name.

Tender Inviting Authority: - Dep of Biomedical Engineering, NSMIMS

Sl No	Description	Unit	Make	Unit Rate	Qty	Amount in Figure (Inc GST)	Amount in Words
1	Oxygen Plant						
1.1	Supply, Installation, testing and commissioning of Fully Automatic 3 Source Oxygen Control Panel with minimum flow rate of 2000 LPM, BMS compatible; as per technical specifications (also meeting ISO 10524-2, ISO 7396-1:2007/HTM02-01/DIN) Preferred make: AKTIV/SKUMAR	Set	1				
	Supply, Installation, testing and	Set	1				

	<p>commissioning of Fully Automatic Oxygen Control Panel with minimum flow rate of 2000 LPM, BMS compatible; as per technical specifications (also meeting ISO 10524-2, ISO 7396-1:2007/HTM02-01/DIN)</p> <p>Preferred make: DRAEGER/GREGGERSEN/ BEACON MEDAES/PNEUMATECH</p>						
1.2	<p>Supply, Installation, testing and commissioning of Emergency Oxygen Manifold - 2 banks x 5 cylinders, as per technical specifications (also meeting ISO 7396- 1:2007/ISO, 7396-2/HTM02-01). The cylinders shall not be included in the quoted price.</p> <p>Indian Make</p>	Set	1				
1.3	<p>Dismantling, Reinstallation, testing and commissioning of existing Control Panel to Emergency Oxygen Manifold</p>	Work	1				
1.4	<p>Buyback of old Oxygen Manifold – 2 banks x 2 cylinders</p>	Set	1				
2	Carbon Dioxide Plant						

2.1	<p>Supply, Installation, testing and commissioning of Semi Automatic CO2 Control as per technical specifications (also meeting ISO 10524-2, ISO 7396-1:2007/HTM02-01)</p> <p>Preferred make: AKTIV/SKUMAR</p> <p>Semi Automatic change over (manual setting) from duty.</p> <p>Bank to reserve bank with safety valves, NRVs</p>						
2.2	<p>Main 2+2 CO2 Manifold 4 Bulk cylinders with NRVs, Copper tailpipes and middle Frame (also meeting ISO 10524-2, ISO 7396-1:2007/HTM02-01)</p>						
2.3	Heater circuit for CO2						
3	Medical Air Plant						
3.1	<p>Compressed Air Plant complete with - 2 screw compressors and cascading control panel</p> <p>Compressor should have minimum free air delivery of 3000 LPM at 10 bar.</p> <p>Preferred Make: ANEST IWATA/ATLAS COPCO</p> <p>1 no of 1500 Ltr air receiver Tank (Indian make with Galvanized</p>	Set	1				

	<p>Coating)</p> <p>Duplex Medical Air drier system with CO & Dew Point Monitor. Air purification module and breathing air filter assembly 3 stage (MIN SIZE 28MM) (Pressure reducing station duplex Type Air 4 and Air 7 One working and One standby)</p> <p>Preferred Make: Filter : PARKER/DRAGER/ATLAS COPCO Drier : Trident System to ensure medical air quality as per European Pharmacopeia, pressure reducing station, control panel, automatic drain valves, ball valves etc (meeting ISO 7396- 2/HTM 02-01) and as per technical specifications.</p>						
4	Vacuum Plant						
4.1	<p>Vacuum plant complete with 2 reciprocating vacuum pumps and cascading control panel</p> <p>Each compressor of 4000 LPM , Max Vacuum 760mmHg With 2000 Ltr Vacuum receiver Tank-1 No (Indian make with Galvanized Coating)</p>	Set	1				

	<p>Power : 415v/50HZ/3 Ph VACUUM PLANT SYSTEM- 10HP, 1 vacuum receiver, secretion trap, bacteria double filter, control panel, ball valves etc. (meeting ISO 7396- 2/HTM 02- 01).</p> <p>Preferred Make: Ingersol Rand/Anest Iwata</p>						
5	<p>Supply, Installation, testing and commissioning of Copper pipe: Per Mtr (meeting EN 13348 or equivalent national standards)</p> <p>Preferred Make: Mexflo/Mandev</p>						
5.1	12 mm	Mts	1				
5.2	15 mm	Mts	1				
5.3	22 mm	Mts	50				
5.4	28 mm	Mts	100				
5.5	35 mm	Mts	175				
5.6	42 mm	Mts	175				
5.7	54 mm	Mts	350				
5.8	76 mm	Mts	175				
5.9	108 mm	Mts	1				
6	<p>Supply, Installation, testing and commissioning of Ball Valves complying with HTM 02-01 or as per equivalent national</p>						

	standards (Preferred make: BONGAS/ITAP)						
6.1	12 mm	Nos	1				
6.2	15 mm	Nos	25				
6.3	22 mm	Nos	25				
6.4	28 mm	Nos	15				
6.5	35 mm	Nos	5				
6.6	42 mm	Nos	5				
6.7	54 mm	Nos	5				
6.8	76 mm	Nos	2				
6.9	108 mm	Nos	1				
7	Rearrangement of existing Pumps/Tanks in Plant Room to accommodate new Pumps & Tanks	Work	1				

Total Amount In Figure

Total Amount in Words

Sign & Seal