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Indian Institute of Technology Kanpur

Samtel Centre for Display Technologies

Enquiry number: SCDT/2012-13/06
Last date: January 10th, 2013

Sealed Quotations are invited for the supply and installation of **Ultra High Pure nitrogen Gas Supply System** for the glove box application as per the following specifications:

1. **Capacity:** 5 Nm3/Hr, Pressure 12 bar , Dew Point (-) 60 deg C, purity not less than 99.9999 %(min), oxygen not more than 1ppm
2. **Air compressor:** Reciprocating air compressor which can compress air upto 7.5 Kg/cm2 g with mircroprocessor base control. Equipped with the 4-stage oil Filter upto 0.03 micron and with the air receiver.
3. **Air purification system** for the delivery of 5Nm3/hr.
4. **Booster:** Nitrogen gas booster which boosts the gas upto 12 Bar. High pressure switch should be provided at booster discharge line to trip the booster at high pressure of 13Kg/cm2 g
5. **Buffer tank:** Suitable design and capacity of 72 m3 which can bear 12 Barr pressure. This tank must equipped with the automatic trip system and have back pressure controller.
6. Nitrogen flow meter and oxygen analyser wherever necessary.
7. Back pressure control system, other accessories such as Pressure regulators, Pressure gauges, safety valves etc. wherever required (mention all the details as well as name of manufacturer along with the commercial quotation).
8. Automatic emergency backup of 5+5 cylinders manifolds and accessories.

Note: Bid will be evaluate on the basis of technical, commercial and feedback

Terms & Conditions:-

1. Supply, installation and commissioning of Gas Supply system and other accessories are within the scope of supplier only on turnkey basis.
2. Tender shall be submitted along with AutoCAD design and drawing of the complete project
3. All the components shall be of internationally reputed brands.
4. All pressure vessels shall be designed and fabricated as per ASME Section VIII, Div. I Codes & International standards. Material of construction shall be IS-2002 Gr.2 /SA -516.
5. All Pressure Vessels shall be fabricated in ISO 9001-2000 workshop certified for Design & Manufacturing. All Pressure Vessels shall have Safety Valves, Pressure Switch & pressure gauges.
6. The vendor is responsible for supply of complete package so as to meet our operational requirements.
7. Stage inspection if required to be arranged
8. Test certificates for all the process vessels to be submitted.
9. The manufacturing company must have at least ten year experience in the manufacturing such type of supply systems.
10. Please send best techno-commercial offer **(technical and commercial offer in the different & sealed envelope).**
11. First, tender will be evaluated on the basis of technical ground. Technical committee may ask to manufacturer/ vendor to come and defend your technical offer. After successful qualification in the technical offer, it will be evaluated on the basis of commercial offer.
12. Please send the name and contact details of the person to whom company had supplied a similar systems. Committee may ask for the feedback.
13. The vendor/manufacturer should provide comprehensive warranty
14. Please clearly mention the schedule maintenance for the proposed warranty period
15. The indenter reserves the right to withhold placement of final order.
16. The rates offered should be inclusive of all taxes, packaging, forwarding freight etc.
17. The delivery period should be specifically stated. Earlier delivery may be preferred
18. Validity of quotation should not less than 90 days
19. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.
20. Institute is exempted for payment of Excise Duty under notification No. 10/97.
21. Please clearly mention enquiry number on the top of envelop.

Send your best offer (Technical & Commercial) along with the drawing so as to reach us on or before January 10th, 2013 3.00PM to the following address:

Dr. S.S.K. Iyer
Room No.305, Samtel Centre for Display Technologies,
I.I.T Kanpur-208016 U.P., India.