

Enquiry No.: MSE/XRD/2013-14/NC-16

We are interested in procuring a **Water Chiller** (for 40KV X-ray Diffraction equipment). Therefore, kindly submit your quotation from the choice of brands and as given specifications:

Specifications of Water Chiller

Technical Specification for Water Chiller

Rated cooling capacity: 3TR

Refrigerant: R407C

Operating ambient temperature: 10 - 50 deg C

Rated Media temperature: 15 deg C

Rated Cooling Capacity: more than 8000Kcal/hr or more.

Temperature stability: +/-2 deg C

Rated flow rate and pressure : 30LPM/4BAR

Tank capacity: greater than 100 Litres.

Power supply: 3Phase, 415V, 50Hz & Earthing

Allowable voltage variation: +/-10%

KW and Amps at full load: 6.3/12.8

Input Voltage: Indian standard

End connection: 1" BSP

Safety interlocks: • HP trip , • LP trip, • AFT trip, • Single Phase Preventer trip, • Water level low trip, • Motor over load trip, • Low and high temp alarm, • Potential free contact for machine, interlock

Reputation/brand and Experience of the Supplier

➤ **Only the following branded produces may be quoted for:**

Voltas, Scanair, Blue Star, Werner Finley, Lauda, Cole-Parmer, Toshiba, Hitachi, Panasonic, Samsung.

The prospective supplier should have a good experience of manufacturing and installing similar units in recognized laboratories, universities and companies. The supplier should include in the technical bid, a list of various personnel to whom the similar unit has been supplied along with the personnel's affiliation, address and contact numbers. In addition, at least one letter of "satisfactory performance" of the similar unit should be obtained from one of the clients from either a national laboratory or a central government institution (e.g. to list a few are IISc, IIT, NCL, NML etc.). This letter from the client should clearly mention that the unit has been installed since when and whether it has been performing satisfactorily.

Design or diagram of the system should be given along with the technical bids.

Method of Submitting Quote:

Submit technical and commercial bid in two separate sealed envelopes. The name "technical bid" or "commercial bid" should be clearly mentioned on each envelope. The technical bid should not mention prices. If the technical bid is found to mention prices, the bid will be disqualified. The two sealed bids (technical and commercial) should then be sealed together in another

bigger envelop. All the envelops i.e. the technical bid envelop, price bid envelop and the main envelop should clearly mention the Tender Number at the top.

Warranty: THREE year onsite warranty required (from date of installation, against all manufacturing defects and faulty workmanship). **After sales service at Kanpur should be available (should be mentioned in quote).**

Installation: the price should be inclusive of installation on site with full functionality.

Quotation should be valid for two months. All envelopes should be marked with enquiry number.

Delivery time: 6 weeks maximum from the date of purchase order.

Payment: as per IIT Kanpur norms on Satisfactory installation on-site.

Quote: Two bit quote (separate technical and commercial bid in sealed separate covers required) should reach the address as below by 9 Sept 2013 5:00pm:

Anandh Subramaniam

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