

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

DEPARTMENT OF MECHANICAL ENGINEERING KANPUR-208016. INDIA

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Enquiry no.: ME/ERL/2014-15/November/01

Enquiry date: November 27^{th} , 2014

Last Date: December 10th, 2014

Enquiry for High Pressure Air Compressor (40 Bar)

A High Pressure Air Compressor (40 Bar) with the following specifications is required at ERL.

Scope of delivery

1.	High Pressure multistage reciprocating pump with baseplate	(1.No.)
2.	High Pressure Cross & Interconnecting tubing	(1 No.)
3.	Outlet pressure gauge	(1 No.)
4.	Air safety valve set	(1 No.)
5.	Air-filter	(1.No.)
6.	Refrigerated air drier	(1.No.)

Specifications of each item are as follows:

1. High Pressure multistage reciprocating pump with baseplate specifications:

Compressor equipped with intercooler, and three stage oil lubricated compressor

Power: 10- 15 HP

Compressor speed: 750 - 1000 rpm
Output Capacity: 20 cfm or higher
Design working pressure: Approx. 50 bar
Delivery pressure: Approx. 40 bar

Accessories: Condensate drain leg (1 No.), Air drain valve (1 No.), Discharge safety valve (1 No.), Automatic drain valve (1 No.), Shut-off valve (1 No.), Suitable high pressure air

receiver (1 No.), Low lube oil level indicator (1 No.), After-cooler (1 No.), Suction air filter (1 No.), Pressure switch to control the pressure (1 No.).

Connections:

Inlet: Suction air filter; Outlet: 1" I.D.

Maximum Dimensions: Height: 4 ft; Depth: 4 ft; Width: 1.5 ft

2. High Pressure Cross & Interconnecting tubing Specifications (1 No.)

Working pressure: More than 50 bars

All the high pressure fittings should have coned and threaded type connections and having safety valve weep holes.

3. Outlet pressure Gauge Specifications (1 No.)

Type: High Pressure

Pressure range: 0-60 bar

Glycerine filled: Yes

Scale: Dual Scale Bar as well as PSI

Accuracy: +/- 1%

4. Air safety valve set at 40 bars (1 No.)

5. Air filter, $0.1\mu m$ to $0.5\mu m$ (1 No.)

6. Refrigerated Air Drier, Capacity 20 cfm (1 No.)

Terms and conditions:

- (i) Provide "Authorization certificate" from the manufacturer, in case the quotation is submitted by an Indian Agent.
- (ii) Prices should include delivery and installation at IITK.
- (iii) Validity of quotation should be at least for 90 days.
- (iv) Warranty: One Year from the date of Installation and Commissioning. Anything missing in the tender document to prove the system is also the responsibility of the supplier.
- (v) All necessary components (cables, sensors, switches etc.) required for proper functioning of system must be included in the offer.
- (vi) The responsibility of successful installation rests with the supplier in a reasonable time frame, as indicated by the indenter.

Kindly send your best Technical and Commercial offer so as to reach us on or before December 10th, 2014 to the following address:

The undersigned reserves the right to accept the offer in part or full or reject completely without assigning any reasons.

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In case of any queries/clarification related to this tender, you may contact Mr. Krishna Kumar Yadav (+91 9598344096)