IISER Mohali is inviting quotes for an OIL FREE SCROLL TYPE AIR COMPRESSOR unit with dryer, receiver and installation of piping to dryer, receiver and N_2 generator etc.

Please send the envelope to: Asst Registrar Purchase Section, Address: IISER Mohali, Knowledge city,

Sector 81, SAS Nagar, Manauli PO 140306

Telefax: 2240266, 2240124

All quotes must reach by specified date and time as mentioned in the document provided by Stores and Purchase section. Certain couriers (like Professional Courier) do not deliver at our site. We will not be held responsible for any courier or postal delays. Quotes can be sent by email also to the following address:

stores@iisermohali.ac.in mukeshkr@iisermohali.ac.in

Given below are general specifications for the compressor, please provide a compliance sheet and other data requested.

Compressor Unit 340L/min

1. Delivery pressure: Should go up to 10 bar/145Psi and tunable to lower

range

1. Delivery capacity: Minimum of 340 L/min @ 10 bar

2. Dry air pressure dew point: -40°C or better using a drier (Drier to be quoted with

system)

3. Internally coated SS air receiver: Around 30-40 L

4. Desired operation: It should be on standby mode and automatically start

supplying on demand (Automatic start stop action)

5. Flow control regulator cum filter: Required

6. Noise level: Should be 60 dB(A) 1.5 m from front max. or better

7. Dimensions: Around 550x650x1100

8. Ambient temperature: 0-40C or wider

9. For automatic action: PLC or microcontroller or any other equivalent control

system

10. Installation & commissioning charges: Includes the pipeline work from compressor to the reservoir, dryer, nitrogen generator etc.

11. Certification of purity must be provided for the model quoted.

NOTE

1. Tubing and connectors:

For providing connection from the compressor to the dryer via coalescent filters and from dryer to the tank, from tank to the Nitrogen generator and to other pneumatic control valves etc. Quote for suitable sized standard connectors of around 10/12mm for connection to the compressor outlet port, dryer inlet and outlet ports, coalescent filter ports. The connection to the N2 generator is G 1".

Quote for per meter length of the tubing of the same size and the quote should include the labour charges.

2. Accessories:

a) Drier:

Heatless PSA regenerative dryer with two active columns to automatically regenerate one and use another to produce dry air

Must be capable of operating from 6 to 12bar inlet pressure and around 20 cfm inlet flow

Dryer pressure drop should not be more than 1 bar

Outlet air dew point of -40°C or better

Should be of vertical design covering an area of around 200x300mm

Inlet & outlet shuttle valves for low pressure drop

Should have basic displays and controllers if necessary

b) Filters:

Coalescing filters for the removal of dirt, oil and water (Liquid, aerosol & vapour form) Should be of activated carbon and borosilicate microfiber material or equivalent Quote for 3um filter, fine filter 1um, micro filter .1um Filter must be suitable for use above 20 cfm @6 to 12 bar Inlet and outlet ports of the filters should be of the same size to accommodate the

c) Tanks:

tubing and connectors

- Quote for 100L, 200L and 500L Stainless Steel High pressure external storage tanks separately. 500L one should be mounted on the roof of the room. Out of 100 or 200L one will be used for N2 storage.
- d) **Pressure Gauge:** Quote for a pressure gauge of brands like WIKA to be installed on the tank.
- e) **Neoprene Base:** Quote for 1" thick neoprene for the compressor unit and for the dryer.
- 3. **Compressor motor starter:** The star delta starter or equivalent should be provided and installed for the compressor motor so that every time on start up, the compressor motor starts up in star configuration and then changes over to the delta to avoid the high inrush current.

Selection criteria:

- 1. Give details of the no. of units of the same model sold before in India(At least 10 Units)
- 2. List of trained service engineers trained on the same model or better in India.
- 3. Nearest service centres list with complete addresses.
- 4. Customer references with contact details of at least ten customers from Research institutes like IITs, IISERs and other major national labs. (provide at least 10 references for similar models)
- 5. Delivery time (Typically must be less than 4 weeks)

Financial Terms:

- 1) No pre-payment will be made.
- 2) Line of sight draft will be preferred over L/C expenses.
- 3) Quote Shipping and Insurance till IISER Mohali.
- 4) Customs exempt certificate will be provided.
- 5) Upto 10% performance bank guarantee to be provided for 1 year.