



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

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17th July 2015

Corrigendum

In continuation of our tender Ref. No. even dated 09th July 2015 for the supply and installation of Turbo and rotary pump. It is hereby informed that the due date of opening the tender is now extended up to 31st July 2015 with some modified/Revised specification as below. Other terms and conditions will remain same.

1. Specification for Turbo Pump

- I. The pumping speed should be ~400 l/s greater.
- II. Ultimate pressure with Rotary Vane backing pump should be around $1*10^{-6}$ to $1*10^{-8}$ mbar
- III. Vent port and purge port should be provided (both automatic and manual)
- IV. Appropriate controller and all necessary cables (at least 1.5 m long) to run the turbo must be provided. **Mounting brackets or small bench top controllers must be provided**. Controller must allow independent control of turbo manually without dependence on the status of rouging pump.
- V. The turbo-pump should be air cooled.
 - a. Quotations of the necessary gauges should be included which are as follows:
- VI. Pirani and compact cold cathode gauge with reader from 1000 mbar to 10^{-9} mbar or lower with reader included in controller or separate reader must be quoted.

2. Specification for rotary pump

- I. It should work independently as well as to back the turbo pump with specifications as mentioned above.
- II. Rotary vane pump 10-12 m³ /h with inlet and outlet filters (oil mist filters) for chemicals like solvents. The pump should have ultimate pressure 10^{-3} m bar or better.

3. Specification for a dry pump (to be quoted separately but included with the main quote as an option)

- I. Separate quote is required for a dry (oil free) pump for helium gas recovery.
- II. The pump could be either roots or scroll with appropriate recovery port at the outlet without loss of pumped gas: The main application of this pump will be to pump on helium gas and recover the pumped gas. The vendors must specify in detail about the advantages and disadvantages of the pump in pumping helium. It will be preferred if the vendor can provide references where other groups have used the quoted pump for pumping and recovering helium gas. Minimum three years of performance warranty (including all parts) will be required.
- III. The dry pump must be able to pump out nitrogen gas @28 m³/h or better. The pump with higher displacement will be given preference.

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(Mukesh Kumar)
Assistant Registrar (S&P)