



SATYENDRA NATH BOSE NATIONAL CENTRE FOR BASIC SCIENCES

[Funded by the Department of Science & Technology, Government of India]

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Ref. SNB/ENQ/MP/Rotary Pump /13-14/2126(WP)

12.03.2014

Dear Sir,

Sealed quotations are hereby invited for the following items in two parts (Technical and Commercial bids). One large envelope containing two smaller envelopes containing Part A: Technical Bid and Part B: Commercial Bid need to be submitted separately – Two smaller envelopes should be super-scribed "**Technical Bid**" / "**Commercial Bid**" as the case may be.

Sl. No.	PARTICULARS	Qty.
01.	Double Stage Rotary vane pump (Pl. find attached Annexure 1 & see reverse for detailed Technical Specification)	02 nos.

Technical bid: should contain complete technical information literature/working manual of the quoted item & authorization certificate of the manufacturer.
Price Bid: In case of imported item CIF/CIP Kolkata airport price should be mentioned and for indigenous item FOR basis up to S. N. Bose Centre, Kolkata may be quoted.

Note:

- 1) The quoted price should be inclusive of delivery charges.
- 2) Validity should be for 90 days from the date of opening.
- 3) Minimum one (1) year standard onsite warranty is to be provided.
- 4) Our Payment term is subject to after delivery only.
- 5) Delivery period should be mentioned in the quotation.
- 6) Our ref. no. should be mentioned on top of the quotation envelope.
- 7) Quotation for the above item should reach this office by **25th March, 2014**

Thanking you,
Yours faithfully,

S. K. Singh
AR (Purchase)

Specification of Pumping System:-

Double stage rotary vane vacuum pump, with 2.5 m³/hr pumping speed along with Oil mist separator and ZEOLITE Trap

Specifications for Double Stage Rotary Vane Pump

- 1) Pumping speed: - 2.5 m³/h.
- 2) Flange connection: - DN 16 ISO-KF
- 3) Ultimate pressure: - 0.005 mbar without gas ballast.
- 4) Noise level: - < 55 dB(A)
- 5) Forced oil lubricated bearings.
- 6) Integrated with high speed hydraulically controlled high vacuum safety valve.

Active Pirani gauge head along with its controller

Connection flange: DN 16 ISO-KF
Measurement range: 1000 mbar to 5.10⁻⁴ mbar.
Accuracy: 100 – 10⁻³ mbar: ± 15%
Repeatability: 10⁻³ – 100 mbar: ± 2%
Output signal: pressure range: 2.2 – 8.5 V DC
Output signal, minimum load: 10 KΩ
Pressure Max:- 10 bar
Operating temperature: + 5 to + 60⁰ C
Temperature, storage: - 20 to + 65⁰ C
Supply: Voltage: 14 – 30 V
Supply: Power consumption max.: 1 W
Filament: Tungsten
Feed through: Glass
Flange: St. steel
Seal: Metal

Rubber Hose Rubber, inner diameter 16 mm - 4 nos.
Hose Connector, DN 16 ISO-KF Aluminum, for 12 mm hose – 4 nos.
Centering ring DN 16 ISO-KF aluminium/FPM – 6 nos.
Clamping ring, DN 10-16 ISO-KF aluminium/steel for elastomer seals – 6 nos.