



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/Vane Pump /15-16/528(WP)

31.07.2015

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.	VANE PUMP & ACCESSORIES (See reverse for detailed technical specification)	01 no.

Note: Attached herewith Annexure-I (check list) and Annexure-II (Tender Terms & Conditions).
❖ **Annexure I** ⇒ is to be duly filled in by the bidder and should be submitted with the Technical Bid only. Offer received without any of the relevant information / certificate / document asked as per Annexure-I from sl. no.01 to 17, may not be considered for further evaluation. ❖ **Annexure II** ⇒ should also be submitted with the technical bid duly sealed and signed as an acceptance of all tender terms & conditions mentioned therein. ❖ The Centre reserves the right to accept or reject offer of the tenderer. ❖ The Centre's decision shall be final and binding on the tenderer. Attached documents should be duly marked.

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 Kolkata airport price should be mentioned and for indigenous item FOR basis up to S. N. Bose National Centre for Basic Sciences, 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
- 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 **20th August, 2015**

Thanking you,
Yours faithfully,

S. K. Singh
AR (Purchase)

Technical Specification of VANE PUMP

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

Specifications for Double Stage Rotary Vane Pump

- 1) Pumping speed: - 2.5 m³/h.
- 2) Coupling between the Pumping stage and Motor:- Magnetic Coupling
- 3) No Radial shaft seal between the Pumping stage and Motor.
- 4) Flange connection: - DN 16 ISO-KF
- 5) Ultimate pressure: - < 0.005 mbar without gas ballast.
- 6) Noise level: - < 55 dB(A)
- 7) Forced oil lubricated bearings.
- 8) 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: 20 – 2 x 10⁻³ mbar: ± 10%
Repeatability: 10⁻³ – 20 mbar: ± 2%
Output signal: pressure range: 1.5 – 8.5 V DC
Output signal, minimum load: 10 KΩ
Pressure Max:- 4 bar
Operating temperature: + 5 to + 60⁰ C
Temperature, storage: - 40 to + 70⁰ C
Supply: Voltage: 15 – 30 V
Filament: Tungsten
Feed through: Glass
Flange: St. steel
Seal: Metal

Controller for Gauge

Connection for gauge:-1
Display Rate:- ≥ 10 1/s
Interface:- USB, RS 485, Ethernet
Filter time constant:- 0.75/0.15/0.02 s.

Components :-

Rubber Hose - 2 meters
Hose Connector, DN 16 ISO-KF, for 12 mm hose: - 2 Numbers
Centering ring DN 16 ISO-KF: - 3 Numbers
Clamping ring, DN 10-16 ISO-KF: - 3 Numbers
Swagelok Adapter DN 16 ISO-KF tube external diameter ¼" – 2 Numbers

Specific Terms & Conditions for VANE PUMP:

- The quotation should include an *Earnest money (EMD)* for Rs.5,500.00 (*Rupees Five Thousand Five Hundred only*) in the form of Demand Draft in favour of "S. N. Bose National Centre for Basic Sciences", payable at Kolkata. Bid without EMD will not be considered and shall be rejected. *EMD should be submitted alongwith the Technical Bid.*
- **Attached herewith Annexure-I (check list) and Annexure-II (Tender Terms & Conditions). All should be duly filled in by the bidder and should be submitted with the Technical Bid of. Offer received without any of the relevant information / certificate / document asked as per "Annexure I & II" may not be considered for further evaluation.**
- The Centre reserves the right to accept or reject offer of the tenderer without assigning any reason . The Centre's decision shall be final and binding on the tenderer. Attached documents should be duly marked.

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General Terms & Conditions:

- 1) The bid should be submitted in two bid system each of which is to be submitted in separate envelope. One envelope should contain "Technical Bid" i.e., technical specifications, terms and condition, terms of payment except price and another envelope should contain "Price Bid" i.e., price of the quoted item. Both the envelopes should be separately sealed and kept in another large envelope which should be marked with tender reference number, name of the equipment and tender opening date. Separate bid should be submitted for each of the items. Combined bids will not be entertained.
- 2) The tenderer should have high technical, financial reputation with sufficient experience and capable enough for supply, installation & commissioning of similar type of equipment to actual users. Documentary evidence should be submitted in this respect.
- 3) Against such offers, if statutory requirement demands clearance from concerned Governments the tenderers should confirm in their offer that "Export License" in that respect would be arranged by them at their cost.
- 4) Offers should be complete in all respect indicating therein the unit price(s) including manuals, make, model, duties and taxes, delivery period, gross and net weight of the consignment, terms of payment, together with the descriptive leaflet/catalogue/pamphlet/manufacturer's brochure.
- 5) The offers shall remain valid at least for a period of **90 days. The period starts from the date of closing of tender submission.**
- 6) The Institute shall not be responsible for delay, loss or non-receipt of the tender through post/Air Mail
- 7) The aforesaid Tender is being issued with no financial commitment and purchaser reserves the right to change / vary any items or items thereof at any stage.
- 8) No tenderer shall be entitled for any compensation what so ever for rejection/non consideration of their tender.
- 9) Invitation of tender does not constitute any right or claim for issue of purchase order to the tenderer.
- 10) If any information furnished by the tenderer is found incorrect or false at a later stage he shall be liable to be debarred from ordering / tendering
- 11) For items originating from abroad 80% payment shall be made by letter of credit and the balance 20% payment will be released after successful completion of installation & commissioning at site.
- 12) For indigenous item, payment will be made after satisfactory installation & commissioning of the equipment / instrument at site.

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