

Our E-Tender Notice No. IPR/TN/ET/F/18-19/56 Dated 5th March, 2019 for Supply of Turbomolecular Pumping System with suitable backing system having speed of 1800 lps and 1000 lps as per the technical specifications mentioned in our tender documents. - 1 Nos. each

SECTION - C

TECHNICAL SPECIFICATIONS OF STORES AND DRAWINGS.

Technical Specifications cum Compliance Statement for Supply of Turbomolecular Pumping Systems with suitable backing system having speed of 1800 lps and 1000 lps

Technical Specification cum Compliance Statement

Bidder must submit compliance statement dully filled with exact technical values of each specifications (Not with OK, CONFIRM, COMPLY, ACCEPTABLE) alongwith official seal and signature with their offer.

Sr. No.	Specifications asked by IPR	Value	Value/parameter to be filled by vendor
1.	Pumping speed for Nitrogen gas	a. ≥ 1800 l/s (Quantity = 01) b. ≥ 1000 l/s (Quantity = 01)	
2.	Ultimate Pressure in closed condition	$< 1.0 \times 10^{-8}$ mbar	
3.	Mounting Orientation	In any orientation	
4.	Permissible magnetic field max.	≥ 5 mT	
5.	Baking temperature max.	120 °C	
6.	Inlet flange	a. 250 CF for 1800 l/s b. 200 CF for 1000 l/s	
7.	Operating voltage	230V AC @ 50Hz, Single phase	
8.	Backing pump	Suitable two stage oil filled rotary backing pump should be provided with each TMP.	
9.	Pump controller	Controller should be provided for single switch operation of the entire system and should have facility to view bearing and motor temperature.	
10.	Safety	Pump should vent automatically in case of a power failure.	
11.	Accessories	1. Oil should be provided for first time operation. 2. Splitter shield, magnetic shield and Baking jacket should be provided.	
12.	Warranty	One year warranty from the date of shipment against all sorts of manufacturing defects, faulty material and poor workmanship.	

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13.	Acceptance criterion	Testing of pump shall be carried out for (a) Ultimate pressure < 1.0×10^{-8} mbar and (b) automatic venting in case of power failure.	
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Authorised Signatory

Official Seal

Date :-