

**Tender No: IITK/CHM/DHD/14-15/14**

**Date:02-12-2014.**

**Requirement: Nitrogen gas generator**

Quotations are requested (separate technical bid and price bid) from suppliers for the above item. Please send your quotations in a sealed envelope to the undersigned by 22 Dec, 2014 to the undersigned in a sealed envelope

**Technical specification for Nitrogen gas generator**

**Specifications**

<b>S.No</b>	<b>Para of RFP Specifications(Item Wise)</b>
1	The system should be of modular design, compact in size, automatic operation, minimum noise level, low operational cost. Nitrogen should be generated from the atmospheric air. Whole system should be compact and properly assembled without any leakage with operating voltage 230v50 Hz
2	The equipment should be capable of running for 24 hrs. round the year
3	Installation - indoor
4	Should employ membrane technology
5	Should provide us with a certificate of suitability of your gas generator with all the leading LCMS manufactures including Agilent, waters, Thermo and AbSciex.
6	Outlet pressure -6.5-7 Bar.
7	Flow rate: should be 32 L/min
8	It should have inbuilt requisite filters.
9	service due &high duty alarm inbuilt in system
10	safety- it should have safety system with safe alarms
11	outlet temp.-ambient
12	compressor should have air buffer vessel so as to heave compressor operating in phases( Automatic on off modes depending on pressure side the compressor)
13	Should work in temperature range of 15 to 30 degree Celsius in humidity range of 65-89%
14	Suspended particles in generated nitrogen less than 0.01 micrometres

<b>Compressor</b>	
15	The nitrogen generator should be supplied with a suitable built in quiet air compressor 50-55- dB so that it can be kept inside the laboratory
16	It should be Oil free piston compressor
<b>Application</b>	
17	Should be compatible with all the leading LCMS manufactures including Agilent, waters, Thermo and AbSciex.
18	Should have proven certified installations with LCMS at least 25 no's from the country. Please submit reference list of installations.
<b>Service</b>	
19	A service engineer should be available on demand within 24-72 hours
20	Service engineer should be well certified
21	Spare parts should be available for next ten years
22	Warranty of 1 year for all the items and AMC (including consumables)/CMC for additional one or two years should be provided

Prices should be quoted in Indian rupees/Foreign currency and as much as possible should include the cost of shipping to IIT Kanpur.

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